

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Water Quality Analysis

JOB NUMBER

880-38528-1

Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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Definitions/Glossary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
U	Indicates the analyte was analyzed for but not detected.

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Dioxin

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
^2	Calibration Blank (ICB and/or CCB) is outside acceptance limits.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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Definitions/Glossary

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Qualifiers (Continued)

General Chemistry (Continued)

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.
X	Carrier is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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Job Narrative 880-38528-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 1/26/2024 12:18 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 37.0°C.

Subcontract Work

Method Asbestos: This method was subcontracted to Eurofins J3 Resources x HOU. The subcontract laboratory certification is different from that of the facility issuing the final report. The subcontract report is appended in its entirety.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 860-142954 recovered above the upper control limit for 1,2,4-Trichlorobenzene(20.1%). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 860-142954/2).

Method 8260D: The following sample was diluted to bring the concentration of target analytes within the calibration range: Raw Produced (880-38528-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_LL: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-143128 and analytical batch 860-143331 recovered outside control limits for the following analytes: 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,6-Dinitrotoluene, 2-Nitroaniline, Aniline (Phenylamine, Aminobenzene), Benzoic acid and Pyridine.

Method 8270E_LL: The following sample was diluted due to the nature of the sample matrix: Raw Produced (880-38528-1). Elevated reporting limits (RLs) are provided.

Method 8270E_LL: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: Raw Produced (880-38528-1). These results have been reported and qualified.

Method Organotins_SIM: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-405719.Organotins-W

Method Organotins_SIM: The following sample was diluted due to the nature of the sample matrix: Raw Produced (880-38528-1). Elevated reporting limits (RLs) are provided.

Method 8270D_SIM: The following sample was diluted due to the nature of the sample matrix: Raw Produced (880-38528-1). Elevated reporting limits (RLs) are provided.

Method 8270D_SIM: Surrogate recovery for the following sample was outside control limits: Raw Produced (880-38528-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides

Method 8151A_MOD: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-142589 and analytical batch 860-142760 recovered outside control limits for the following analyte(s): Dinoseb. Dinoseb has been identified as a poor performing analyte when analyzed using this method. .

Method 8151A_MOD: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 860-142589 and analytical batch 860-142760 recovered outside control limits for the following analytes: Dinoseb.

Method 8151A_MOD: The method blank for preparation batch 860-142589 contained MCPA above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs

Method 8082A_LL: The surrogate recovery for the blank associated with preparation batch 860-143280 and analytical batch 860-143420 was outside the upper control limits.

(MB 860-143280/1-A)

Method 8082A_LL: The surrogate recovery for the LCS/LCSD associated with preparation batch 860-143280 and analytical batch 860-143420 was outside the upper control limits.
(LCS 860-143280/13-A) and (LCSD 860-143280/14-A)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides

Method 8081B_LL: The surrogate recovery for the blank associated with preparation batch 860-143280 and analytical batch 860-143426 was outside the upper control limits.

(MB 860-143280/1-A)

Method 8081B_LL: The surrogate recovery for the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with preparation batch 860-143280 and analytical batch 860-143426 was outside the upper control limits.

(LCS 860-143280/2-A) and (LCSD 860-143280/3-A)

Method 8081B_LL: Surrogate recovery for the following sample was outside the upper control limit: Raw Produced (880-38528-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8081B_LL: The laboratory control sample (LCS) for preparation batch 860-143280 and analytical batch 860-143426 recovered outside control limits for the following analytes: Endrin aldehyde. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8081B_LL: The laboratory control sample duplicate (LCSD) for preparation batch 860-143280 and analytical batch 860-143426 recovered outside control limits for the following analytes: 4,4'-DDD and Endrin aldehyde. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8141B_LL: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 180-458082.

Method 8141B_LL: The continuing calibration verification (CCV) associated with 180-458212 recovered high and outside the control limits for Demeton-O on one column. Results are confirmed on both columns and reported from the passing column. The associated sample is: (CCV 180-458212/22).

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Method 8141B_LL: The continuing calibration verification (CCV) associated with batch 180-458212 recovered above the upper control limit for Chlorpyrifos, Demeton, Total, Demeton-O, Demeton-S, Diazinon, Malathion, Tributyl phosphate, Triphenylphosphate and Guthion. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 180-458212/30).

Method 8141B_LL: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 180-458082 and analytical batch 180-458212 recovered outside control limits for the following analytes: Guthion

Method 8141B_LL: The continuing calibration verification (CCV) associated with 180-458212 recovered high and outside the control limits for Tributyl phosphate on one column. Results are confirmed on both columns and reported from the passing column. The associated sample is: (CCVRT 180-458212/1).

Method 8141B_LL: The continuing calibration verification (CCV) associated with batch 180-458212 recovered above the upper control limit for Tributyl phosphate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 180-458212/22).

Method 8141B_LL: The continuing calibration verification (CCV) associated with batch 180-458212 recovered above the upper control limit for Azinphos-methyl, Bolstar, Chlorpyrifos, Coumaphos, Demeton, Total, Diazinon, Dichlorvos, Dimethoate, Disulfoton, EPN, Mocap, Famphur, Fensulfothion, Fenthion, Malathion, Parathion, Methyl parathion, Mevinphos, Phorate, Ronnel, Stirophos, Sulfotepp, Thionazin, Tokuthion, Trichloronate, O,O,O-Triethyl phosphorothioate, Tributyl phosphate and Triphenylphosphate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 180-458212/30).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300_ORGFM_28D: The instrument blank/CCB for analytical batch 860-143493 contained Chloride greater than the method detection limit (MDL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank/CCB. The data have been qualified and reported.

Method 300_ORGFM_28D: The following sample was diluted to bring the concentration of target analytes within the calibration range: Raw Produced (880-38528-1). Elevated reporting limits (RLs) are provided.

Method 300_ORGFM_28D: The following sample was diluted due to the nature of the sample matrix: Raw Produced (880-38528-1). Elevated reporting limits (RLs) are provided.

Method 300_ORGFMS: The following sample was diluted due to the abundance of non-target analytes: Raw Produced (880-38528-1). Elevated reporting limits (RLs) are provided. Note: High chloride concentration.

Method 300_ORGFMS: The following sample was received outside of holding time: Raw Produced (880-38528-1).

Method 300_ORGFMS: Reanalysis of the following sample was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis: Raw Produced (880-38528-1).

Method 8015D_DAI_VFA: The method blank for preparation batch 410-468290 contained Oxalic Acid above the method detection limit (MDL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method 8330B: Sample has a 2-4-diamino-6-nitrotoluene detection of 24.6 ug/L on the Luna-Phenyl-Hexel column and 3.69 ug/L on the Synergi-Hydro column resulting in a dual column relative percent difference (RPD) of 148%. 2-4-diamino-6-nitrotoluene method detection limit (MDL) of 1.04 ug/L and reporting limit (RL) of 2.10 ug/L was raised to 3.7 ug/L.

Raw Produced (880-38528-1)

Method 8330B: Sample has a 4-amino-2,6-dinitrotoluene detection of 22.9 ug/L on the Luna-Phenyl-Hexel column and 5.84 ug/L on the Synergi-Hydro column resulting in a dual column relative percent difference (RPD) of 119%. 4-amino-2,6-dinitrotoluene method detection limit (MDL) of 0.92 ug/L and reporting limit (RL) of 2.00 ug/L was raised to 5.9 ug/L.

Raw Produced (880-38528-1)

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Method 8330B: With the exception of CCVRT 410-471494/5-A, 2,4,6-TNT and Nitrobenzene co-elute on the Synergi-Hydro column (UV/0). The retention time and the peak for these co-elutors is labeled as Nitrobenzene. All data reporting from the Luna Phenyl-Hexyl column.

Raw Produced (880-38528-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

LCMS

Method 6850: Sample diluted due to the nature of the sample matrix.

Raw Produced (880-38528-1)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PFAS

Method PFC_IDA: Reporting limits were raised for the following sample: Raw Produced (880-38528-1) due to interference from the sample matrix.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Dioxin

Method 8290A: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation/analysis: Raw Produced (880-38528-1).

Method 8290A: The bracketing continuing calibration verification (CCV) associated with batch 410-476019 has analytes with percent difference values that are between the method criteria of 30% to 35% deviation from the initial calibration curve. Per method guidelines, an average relative response factor (RRF) is calculated from the bracketing CCV and is used to quantitate the Isotope Dilution Analyte (IDA) recovery in the associated samples.

Method 8290A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 410-474882 and analytical batch 410-476547 recovered outside control limits for the following analytes: 1,2,3,7,8-PeCDD, 1,2,3,7,8-PeCDF, 2,3,4,7,8-PeCDF and 2,3,7,8-TCDD. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 6010D: The method blank for preparation batch 860-143032 and analytical batch 860-143222 contained Calcium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

Method 6010D: The method blank for preparation batch 860-143032 and analytical batch 860-143222 contained Phosphorous and Zinc above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6010D: The following sample was diluted due to the nature of the sample matrix: Raw Produced (880-38528-1). Elevated reporting limits (RLs) are provided.

Method 6010D - Dissolved: The following sample was diluted due to the nature of the sample matrix: Raw Produced (880-38528-1). Elevated reporting limits (RLs) are provided.

Method 6010D - Dissolved: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-142731 and 860-148652 and analytical batch 860-148827 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6020B: The following sample was diluted due to the nature of the sample matrix: Raw Produced (880-38528-1). Elevated reporting limits (RLs) are provided.

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Method 6020B - Dissolved: The following sample was diluted due to the nature of the sample matrix: Raw Produced (880-38528-1). Elevated reporting limits (RLs) are provided.

Method 6020B_U: preparation batch 160-647099 and analytical batch 160-650329

The following sample was diluted due to the nature of the sample matrix: Raw Produced (880-38528-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

Method 180.1: The following sample was received outside of holding time: Raw Produced (880-38528-1).

Method 2320B: The instrument blank for analytical batch 860-144279 contained Alkalinity and Bicarbonate Alkalinity as CaCO₃ greater than the reporting limit (RL), and were not reanalyzed because associated sample(s) results were greater than 10X the value found in the instrument blank. The data have been qualified and reported.

Method 2510B: The following sample was analyzed outside of analytical holding time due to analyst error: Raw Produced (880-38528-1).

Method 350.1: The following sample was analyzed outside of analytical holding time due to <>: Raw Produced (880-38528-1).

Method 3500_CR_B: The following sample was received outside of holding time: Raw Produced (880-38528-1).

Method 5540C: The following sample was received outside of holding time: Raw Produced (880-38528-1).

Method 9020B: Breakthrough exceeded 10% for the following sample: Raw Produced (880-38528-1).

Method SM5310B: The following samples were diluted due to the nature of the sample matrix: Raw Produced (880-38528-1), (890-6022-D-1) and (890-6022-D-1 DU). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gamma Spectroscopy

Method 901.1_Ra: Gamma prep batch 160-646186:

The method blank has bismuth-214 and lead-214 results above the achieved MDCs. This is possibly due to ambient radon present during sample count that was not present during the long monthly background count that is used for background subtraction. This ambient radon could also potentially affect the sample counts, and particularly affects non-soil matrices. Gamma spectroscopy is not very sensitive to radium and daughters (i.e. bismuth-214, lead-214). If the client is concerned with the results and desires a more reliable method for radium, the laboratory suggests EPA method 903.0 if TDS is relatively low

(MB 160-646186/1-A)

Method 901.1_Ra: Gamma 160-646186

The following sample(s), analyzed by gamma spectroscopy, did not meet the detection goal for Ra228 due to high concentrations of the analyte. The data have been reported with this narrative. Raw Produced (880-38528-1)

Method 901.1_Ra: Gamma Prep batch 160-646186

Many isotopes requested by gamma spectrometry analysis do not have any gamma emissions, the gamma emissions they do have are very poor, and/or are reported by assuming secular equilibrium with a longer-lived parent (or vice-versa). For example, Th-232 (which does not have a good gamma-ray) is often reported assuming the shorter-lived Ra-228 daughter is in equilibrium with the Th-232 parent. Or, Pb-214 and/or Bi-214, daughters of potentially volatile Rn-222 in the Ra-226 decay chain, may not be in equilibrium with the parent unless sufficient time has been allowed since the break in equilibrium (e.g. 21 days in the case of Ra-226-supported ingrowth). The client should ensure that such inference is acceptable for their sample based upon process knowledge. The following assumptions were made for this report:

Inferred from Reported to Analyte

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Th-234	Pa-234
Th-234	U-238
Pb-210	Po-210
Pb-210	Bi-210
Cs-137	Ba-137m
Pb-212	Po-216
Xe-131m	Xe-131
Sb-125	Te-125m
Ag-108m	Ag-108
Rh-106	Ru-106
Pb-212	Th-228
Pb-212	Ra-224
U-235	Th-231
Ac-228	Th-232
Ac-228	Ra-228
Th-227	Ra-223
Th-227	Ac-227
Th-227	Bi-211
Th-227	Pb-211
Bi-214	Ra-226

Raw Produced (880-38528-1), (550-213457-M-8-A) and (550-213457-M-8-B DU)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Gas Flow Proportional Counter

Method 900.0: Gross Alpha Beta prep batch 160-646914:

The detection goal was not met for the following samples due to a reduction of the sample size attributed to high residual mass: Raw Produced (880-38528-1), (160-52979-A-3-A) and (160-52979-A-3-D DU). Analytical results are reported with the detection limit achieved.

Method 903.0: Radium 226 prep batch 160-646710

The barium carrier recovery is outside the upper control limit (110%) for the following sample: Raw Produced (880-38528-1). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 903.0: Radium-226 prep batch 160-646710:

The following sample has a barium carrier recovery above the 110% QC limit. Affected samples had a barium correction applied, however, there is significant concentrations of salt-like compounds (i.e. calcium, magnesium, sodium, and strontium) that can interfere with a barium sulfate recovery. The LCS (laboratory control sample) has an acceptable spike recovery demonstrating acceptable sample preparation and instrument performance. The samples have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported. Raw Produced (880-38528-1)

Method 904.0: Radium 228 prep batch 160-646711

The barium carrier recovery is outside the upper control limit (110%) for the following sample: Raw Produced (880-38528-1). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 904.0: Radium-228 batch 646711

The following sample has a barium carrier recovery above the 110% QC limit. Affected samples had a barium correction applied, however, there is significant concentrations of salt-like compounds (i.e. calcium, magnesium, sodium, and strontium) that can interfere with a barium sulfate recovery. The LCS (laboratory control sample) has an acceptable spike recovery demonstrating acceptable sample preparation and instrument performance. The samples have been truncated to 100% to reduce any potential bias a high carrier recovery may have. The data have been qualified and reported. Raw Produced (880-38528-1)

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Method 904.0: Radium-228 batch 646711

The following sample(s) did not meet the requested limit (RL) due to the reduced sample volume attributed to the presence of matrix interferences. The data have been reported with this narrative. Raw Produced (880-38528-1)

Method 905_Sr90: Strontium-90 Prep Batch 160-646341

The strontium carrier recovery is outside the upper control limit (110%) for the following sample: Raw Produced (880-38528-1). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

Method 905_Sr90: Strontium-90 batch 646341

The detection goal was not met for the following sample due to the reduced sample volume attributed to the presence of matrix interferences: Raw Produced (880-38528-1). Analytical results are reported with the detection limit achieved.

Method 905_Sr90: Strontium-90 batch 646341

The Sr Carrier recovery is outside the lower control limit (40%) for the following sample: Raw Produced (880-38528-1). There was physical evidence of matrix interference apparent during the initial preparation of the sample. The QC samples associated with the batch have acceptable carrier recovery indicating the presence of matrix interference.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Freon 113	<0.00555	U	0.0500	0.00555	mg/L			01/31/24 13:42	5
Xylenes, Total	0.128		0.0500	0.00620	mg/L			01/31/24 13:42	5
cis-1,2-Dichloroethene	<0.00229	U	0.00500	0.00229	mg/L			01/31/24 13:42	5
cis-1,3-Dichloropropene	<0.00534	U	0.0250	0.00534	mg/L			01/31/24 13:42	5
Isopropylbenzene	<0.00296	U	0.00500	0.00296	mg/L			01/31/24 13:42	5
m,p-Xylenes	0.0862		0.0500	0.00620	mg/L			01/31/24 13:42	5
n-Butylbenzene	<0.00255	U	0.00500	0.00255	mg/L			01/31/24 13:42	5
N-Propylbenzene	0.00272	J	0.00500	0.00215	mg/L			01/31/24 13:42	5
o-Xylene	0.0420		0.00500	0.00251	mg/L			01/31/24 13:42	5
p-Cymene (p-Isopropyltoluene)	<0.00338	U	0.00500	0.00338	mg/L			01/31/24 13:42	5
tert-Butylbenzene	<0.00221	U	0.00500	0.00221	mg/L			01/31/24 13:42	5
trans-1,2-Dichloroethene	<0.00184	U	0.00500	0.00184	mg/L			01/31/24 13:42	5
trans-1,3-Dichloropropene	<0.00634	U	0.0250	0.00634	mg/L			01/31/24 13:42	5
2-Chloroethyl vinyl ether	<0.00377	U	0.0250	0.00377	mg/L			01/31/24 13:42	5
2-Chlorotoluene	<0.00230	U	0.0100	0.00230	mg/L			01/31/24 13:42	5
Vinyl chloride	<0.00214	U	0.0100	0.00214	mg/L			01/31/24 13:42	5
1,1,1,2-Tetrachloroethane	<0.00322	U	0.00500	0.00322	mg/L			01/31/24 13:42	5
2-Hexanone	<0.0372	U	0.250	0.0372	mg/L			01/31/24 13:42	5
1,1,1-Trichloroethane	<0.00293	U	0.0250	0.00293	mg/L			01/31/24 13:42	5
1,1,2,2-Tetrachloroethane	<0.00235	U	0.00500	0.00235	mg/L			01/31/24 13:42	5
1,1,2-Trichloroethane	<0.00206	U	0.00500	0.00206	mg/L			01/31/24 13:42	5
4-Methyl-2-pentanone	0.0526	J	0.250	0.0375	mg/L			01/31/24 13:42	5
1,1-Dichloroethane	<0.00318	U	0.00500	0.00318	mg/L			01/31/24 13:42	5
Acetonitrile	<0.0730	U	0.500	0.0730	mg/L			01/31/24 13:42	5
1,1-Dichloroethene	<0.00369	U	0.00500	0.00369	mg/L			01/31/24 13:42	5
Acetone	0.618		0.500	0.0153	mg/L			01/31/24 13:42	5
1,1-Dichloropropene	<0.00312	U	0.0250	0.00312	mg/L			01/31/24 13:42	5
Acrolein	<0.0556	U	0.250	0.0556	mg/L			01/31/24 13:42	5
1,2,3-Trichlorobenzene	<0.00885	U	0.0250	0.00885	mg/L			01/31/24 13:42	5
Acrylonitrile	<0.0716	U	0.250	0.0716	mg/L			01/31/24 13:42	5
1,2,3-Trichloropropane	<0.00235	U	0.00500	0.00235	mg/L			01/31/24 13:42	5
1,2,4-Trichlorobenzene	<0.00877	U	0.0250	0.00877	mg/L			01/31/24 13:42	5
1,2,4-Trimethylbenzene	0.0297		0.00500	0.00209	mg/L			01/31/24 13:42	5
1,2-Dibromo-3-Chloropropane	<0.00336	U	0.0250	0.00336	mg/L			01/31/24 13:42	5
1,2-Dibromoethane	<0.00500	U	0.0250	0.00500	mg/L			01/31/24 13:42	5
1,2-Dichlorobenzene	<0.00215	U	0.00500	0.00215	mg/L			01/31/24 13:42	5
1,2-Dichloroethane	<0.00186	U	0.00500	0.00186	mg/L			01/31/24 13:42	5
Carbon disulfide	<0.00825	U	0.0250	0.00825	mg/L			01/31/24 13:42	5
1,2-Dichloropropane	<0.00278	U	0.0250	0.00278	mg/L			01/31/24 13:42	5
1,3,5-Trimethylbenzene	0.00845		0.00500	0.00206	mg/L			01/31/24 13:42	5
1,3-Dichlorobenzene	<0.00207	U	0.00500	0.00207	mg/L			01/31/24 13:42	5
1,3-Dichloropropane	<0.00257	U	0.0250	0.00257	mg/L			01/31/24 13:42	5
1,4-Dichlorobenzene	<0.00225	U	0.00500	0.00225	mg/L			01/31/24 13:42	5
Cyclohexane	0.0355		0.0250	0.00643	mg/L			01/31/24 13:42	5
Dibromomethane	<0.00179	U	0.00500	0.00179	mg/L			01/31/24 13:42	5
2,2-Dichloropropane	<0.00340	U	0.0250	0.00340	mg/L			01/31/24 13:42	5
2-Butanone	0.0768	J	0.250	0.0414	mg/L			01/31/24 13:42	5
Iodomethane (Methyl Iodide)	<0.0326	U	0.100	0.0326	mg/L			01/31/24 13:42	5
Isobutyl alcohol	<0.0855	U	0.250	0.0855	mg/L			01/31/24 13:42	5

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Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Propanol	2.04		0.0500	0.0261	mg/L			01/31/24 13:42	5
4-Chlorotoluene	<0.00193	U	0.00500	0.00193	mg/L			01/31/24 13:42	5
Methyl acetate	0.114		0.100	0.0200	mg/L			01/31/24 13:42	5
Methylcyclohexane	<0.00304	U	0.0500	0.00304	mg/L			01/31/24 13:42	5
Benzene	0.445		0.00500	0.00230	mg/L			01/31/24 13:42	5
Bromobenzene	<0.00243	U	0.00500	0.00243	mg/L			01/31/24 13:42	5
Bromochloromethane	<0.00289	U	0.00500	0.00289	mg/L			01/31/24 13:42	5
Bromodichloromethane	<0.00276	U	0.00500	0.00276	mg/L			01/31/24 13:42	5
Bromoform	<0.00317	U	0.0250	0.00317	mg/L			01/31/24 13:42	5
Bromomethane	<0.00710	U	0.0250	0.00710	mg/L			01/31/24 13:42	5
Tetrahydrofuran	<0.00917	U	0.0500	0.00917	mg/L			01/31/24 13:42	5
Carbon tetrachloride	<0.00448	U	0.0250	0.00448	mg/L			01/31/24 13:42	5
Chlorobenzene	<0.00228	U	0.00500	0.00228	mg/L			01/31/24 13:42	5
Chloroethane	<0.00992	U	0.0500	0.00992	mg/L			01/31/24 13:42	5
Chloroform	<0.00232	U	0.00500	0.00232	mg/L			01/31/24 13:42	5
Chloromethane	<0.0102	U	0.0500	0.0102	mg/L			01/31/24 13:42	5
Vinyl acetate	<0.0107	U	0.100	0.0107	mg/L			01/31/24 13:42	5
Dibromochloromethane	<0.00274	U	0.0250	0.00274	mg/L			01/31/24 13:42	5
Dichlorodifluoromethane	<0.00393	U	0.00500	0.00393	mg/L			01/31/24 13:42	5
Ethylbenzene	0.0208		0.00500	0.00193	mg/L			01/31/24 13:42	5
Hexachlorobutadiene	<0.00314	U	0.0250	0.00314	mg/L			01/31/24 13:42	5
n-Hexane	0.0106	J	0.0250	0.00259	mg/L			01/31/24 13:42	5
MTBE	<0.00696	U	0.0250	0.00696	mg/L			01/31/24 13:42	5
Methylene Chloride	<0.00863	U	0.0250	0.00863	mg/L			01/31/24 13:42	5
Naphthalene	0.00867	J	0.0500	0.00677	mg/L			01/31/24 13:42	5
t-Butyl alcohol	<0.0250	U	0.250	0.0250	mg/L			01/31/24 13:42	5
sec-Butylbenzene	<0.00234	U	0.00500	0.00234	mg/L			01/31/24 13:42	5
trans-1,4-Dichloro-2-butene	<0.00675	U	0.0500	0.00675	mg/L			01/31/24 13:42	5
Styrene	<0.00310	U	0.00500	0.00310	mg/L			01/31/24 13:42	5
Tetrachloroethene	<0.00328	U	0.00500	0.00328	mg/L			01/31/24 13:42	5
Toluene	0.307		0.00500	0.00238	mg/L			01/31/24 13:42	5
Trichloroethene	<0.00750	U	0.0250	0.00750	mg/L			01/31/24 13:42	5
Trichlorofluoromethane	<0.00280	U	0.00500	0.00280	mg/L			01/31/24 13:42	5
Allyl Chloride (3-Chloropropene)	<0.00299	U	0.0250	0.00299	mg/L			01/31/24 13:42	5
2-Chloro-1,3-butadiene	<0.00299	U	0.0250	0.00299	mg/L			01/31/24 13:42	5
Propane Nitrile (Propionitrile)	<0.0167	U	0.0500	0.0167	mg/L			01/31/24 13:42	5
Methacrylonitrile	<0.0136	U	0.0500	0.0136	mg/L			01/31/24 13:42	5
Methyl methacrylate	<0.0113	U	0.0500	0.0113	mg/L			01/31/24 13:42	5
Ethyl ether	<0.0500	U	0.500	0.0500	mg/L			01/31/24 13:42	5
Ethyl acetate	<0.00311	U	0.0100	0.00311	mg/L			01/31/24 13:42	5
2-Nitropropane	<0.0168	U	0.0500	0.0168	mg/L			01/31/24 13:42	5
Ethyl methacrylate	<0.00559	U	0.0250	0.00559	mg/L			01/31/24 13:42	5
Isopropyl acetate	<0.00288	U	0.0250	0.00288	mg/L			01/31/24 13:42	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		01/31/24 13:42	5
4-Bromofluorobenzene (Surr)	101		74 - 124		01/31/24 13:42	5
Dibromofluoromethane (Surr)	116		75 - 131		01/31/24 13:42	5
Toluene-d8 (Surr)	101		80 - 120		01/31/24 13:42	5

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Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000984	U	0.00179	0.000984	mg/L		02/01/24 16:11	02/02/24 15:23	10
Acenaphthylene	<0.000828	U	0.00179	0.000828	mg/L		02/01/24 16:11	02/02/24 15:23	10
Anthracene	<0.000886	U	0.00179	0.000886	mg/L		02/01/24 16:11	02/02/24 15:23	10
Benzo[a]anthracene	<0.00132	U	0.00179	0.00132	mg/L		02/01/24 16:11	02/02/24 15:23	10
Benzo[a]pyrene	<0.000562	U	0.00179	0.000562	mg/L		02/01/24 16:11	02/02/24 15:23	10
Benzo[b]fluoranthene	<0.000689	U	0.00179	0.000689	mg/L		02/01/24 16:11	02/02/24 15:23	10
Benzo[g,h,i]perylene	<0.00111	U	0.00179	0.00111	mg/L		02/01/24 16:11	02/02/24 15:23	10
Benzo[k]fluoranthene	<0.00114	U	0.00179	0.00114	mg/L		02/01/24 16:11	02/02/24 15:23	10
Chrysene	<0.00153	U	0.00179	0.00153	mg/L		02/01/24 16:11	02/02/24 15:23	10
Dibenz(a,h)anthracene	<0.000748	U	0.00179	0.000748	mg/L		02/01/24 16:11	02/02/24 15:23	10
Fluoranthene	<0.00154	U	0.00179	0.00154	mg/L		02/01/24 16:11	02/02/24 15:23	10
Fluorene	0.0103		0.00179	0.000994	mg/L		02/01/24 16:11	02/02/24 15:23	10
Indeno[1,2,3-cd]pyrene	<0.000898	U	0.00179	0.000898	mg/L		02/01/24 16:11	02/02/24 15:23	10
Naphthalene	0.0306	J	0.0358	0.000956	mg/L		02/01/24 16:11	02/02/24 15:23	10
Phenanthrene	0.0145		0.00179	0.000836	mg/L		02/01/24 16:11	02/02/24 15:23	10
Pyrene	<0.00128	U	0.00179	0.00128	mg/L		02/01/24 16:11	02/02/24 15:23	10
1-Methylnaphthalene	0.0800		0.00179	0.000782	mg/L		02/01/24 16:11	02/02/24 15:23	10
2-Methylnaphthalene	0.112		0.00179	0.000898	mg/L		02/01/24 16:11	02/02/24 15:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	94		54 - 146	02/01/24 16:11	02/02/24 15:23	10
Nitrobenzene-d5 (Surr)	200	S1+	46 - 151	02/01/24 16:11	02/02/24 15:23	10
p-Terphenyl-d14 (Surr)	83		51 - 139	02/01/24 16:11	02/02/24 15:23	10

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<6.80	U	20.0	6.80	ug/L		01/31/24 16:54	02/03/24 00:43	10
1,2-Dichlorobenzene	7.05	J	20.0	2.96	ug/L		01/31/24 16:54	02/03/24 00:43	10
1,3-Dichlorobenzene	<3.50	U	20.0	3.50	ug/L		01/31/24 16:54	02/03/24 00:43	10
1,4-Dichlorobenzene	<4.28	U	20.0	4.28	ug/L		01/31/24 16:54	02/03/24 00:43	10
2,4,5-Trichlorophenol	<1.08	U *1	20.0	1.08	ug/L		01/31/24 16:54	02/03/24 00:43	10
2,4,6-Trichlorophenol	<1.35	U *1	20.0	1.35	ug/L		01/31/24 16:54	02/03/24 00:43	10
2,4-Dichlorophenol	<1.15	U	20.0	1.15	ug/L		01/31/24 16:54	02/03/24 00:43	10
2,4-Dimethylphenol	<1.48	U	20.0	1.48	ug/L		01/31/24 16:54	02/03/24 00:43	10
2,4-Dinitrophenol	<14.6	U	80.0	14.6	ug/L		01/31/24 16:54	02/03/24 00:43	10
2,4-Dinitrotoluene	<1.27	U	20.0	1.27	ug/L		01/31/24 16:54	02/03/24 00:43	10
2,6-Dinitrotoluene	<1.99	U *1	20.0	1.99	ug/L		01/31/24 16:54	02/03/24 00:43	10
2-Chloronaphthalene	<10.9	U	80.0	10.9	ug/L		01/31/24 16:54	02/03/24 00:43	10
2-Methylnaphthalene	18.0	J	20.0	4.80	ug/L		01/31/24 16:54	02/03/24 00:43	10
2-Methylphenol	12.0	J	20.0	1.59	ug/L		01/31/24 16:54	02/03/24 00:43	10
2-Nitroaniline	<1.63	U *1	40.0	1.63	ug/L		01/31/24 16:54	02/03/24 00:43	10
2-Nitrophenol	<1.35	U	20.0	1.35	ug/L		01/31/24 16:54	02/03/24 00:43	10
3 & 4 Methylphenol	24.2		20.0	1.63	ug/L		01/31/24 16:54	02/03/24 00:43	10
3-Nitroaniline	<3.44	U	20.0	3.44	ug/L		01/31/24 16:54	02/03/24 00:43	10
4,6-Dinitro-2-methylphenol	<7.36	U	80.0	7.36	ug/L		01/31/24 16:54	02/03/24 00:43	10
4-Bromophenyl-phenylether	<1.67	U	20.0	1.67	ug/L		01/31/24 16:54	02/03/24 00:43	10
4-Chloro-3-methylphenol	<1.57	U	20.0	1.57	ug/L		01/31/24 16:54	02/03/24 00:43	10
4-Chloroaniline	<1.49	U	40.0	1.49	ug/L		01/31/24 16:54	02/03/24 00:43	10
4-Chlorophenyl-phenylether	<2.32	U	20.0	2.32	ug/L		01/31/24 16:54	02/03/24 00:43	10
4-Nitroaniline	<2.47	U	40.0	2.47	ug/L		01/31/24 16:54	02/03/24 00:43	10

Eurofins Midland

Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: SW846 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<5.31	U	40.0	5.31	ug/L		01/31/24 16:54	02/03/24 00:43	10
Acenaphthene	<2.08	U	20.0	2.08	ug/L		01/31/24 16:54	02/03/24 00:43	10
Acenaphthylene	<2.15	U	20.0	2.15	ug/L		01/31/24 16:54	02/03/24 00:43	10
Aniline (Phenylamine, Aminobenzene)	<3.14	U *1	40.0	3.14	ug/L		01/31/24 16:54	02/03/24 00:43	10
Anthracene	<1.54	U	20.0	1.54	ug/L		01/31/24 16:54	02/03/24 00:43	10
Benzo[a]anthracene	<1.50	U	20.0	1.50	ug/L		01/31/24 16:54	02/03/24 00:43	10
Benzo[a]pyrene	<1.48	U	20.0	1.48	ug/L		01/31/24 16:54	02/03/24 00:43	10
Benzo[b]fluoranthene	<2.10	U	20.0	2.10	ug/L		01/31/24 16:54	02/03/24 00:43	10
Benzo[g,h,i]perylene	<1.43	U	20.0	1.43	ug/L		01/31/24 16:54	02/03/24 00:43	10
Benzo[k]fluoranthene	<1.66	U	20.0	1.66	ug/L		01/31/24 16:54	02/03/24 00:43	10
Benzoic acid	<10.6	U *1	80.0	10.6	ug/L		01/31/24 16:54	02/03/24 00:43	10
Butyl benzyl phthalate	<1.50	U	20.0	1.50	ug/L		01/31/24 16:54	02/03/24 00:43	10
Bis(2-chloroethoxy)methane	<1.70	U	20.0	1.70	ug/L		01/31/24 16:54	02/03/24 00:43	10
Bis(2-chloroethyl)ether	<2.78	U	20.0	2.78	ug/L		01/31/24 16:54	02/03/24 00:43	10
bis(2-chloroisopropyl) ether	<1.39	U	20.0	1.39	ug/L		01/31/24 16:54	02/03/24 00:43	10
Bis(2-ethylhexyl) phthalate	<2.25	U	20.0	2.25	ug/L		01/31/24 16:54	02/03/24 00:43	10
Chrysene	<1.59	U	20.0	1.59	ug/L		01/31/24 16:54	02/03/24 00:43	10
Dibenz(a,h)anthracene	<1.48	U	20.0	1.48	ug/L		01/31/24 16:54	02/03/24 00:43	10
Dibenzofuran	<3.36	U	20.0	3.36	ug/L		01/31/24 16:54	02/03/24 00:43	10
Diethyl phthalate	<1.18	U	20.0	1.18	ug/L		01/31/24 16:54	02/03/24 00:43	10
Dimethyl phthalate	<1.43	U	20.0	1.43	ug/L		01/31/24 16:54	02/03/24 00:43	10
Di-n-butyl phthalate	<8.00	U	20.0	8.00	ug/L		01/31/24 16:54	02/03/24 00:43	10
Di-n-octyl phthalate	<1.69	U	20.0	1.69	ug/L		01/31/24 16:54	02/03/24 00:43	10
Fluoranthene	<1.48	U	20.0	1.48	ug/L		01/31/24 16:54	02/03/24 00:43	10
Fluorene	<2.05	U	20.0	2.05	ug/L		01/31/24 16:54	02/03/24 00:43	10
Hexachlorobenzene	<1.26	U	20.0	1.26	ug/L		01/31/24 16:54	02/03/24 00:43	10
Hexachlorobutadiene	<2.52	U	20.0	2.52	ug/L		01/31/24 16:54	02/03/24 00:43	10
Hexachlorocyclopentadiene	<4.31	U	20.0	4.31	ug/L		01/31/24 16:54	02/03/24 00:43	10
Hexachloroethane	<1.40	U	20.0	1.40	ug/L		01/31/24 16:54	02/03/24 00:43	10
Indeno[1,2,3-cd]pyrene	<8.52	U	20.0	8.52	ug/L		01/31/24 16:54	02/03/24 00:43	10
Isophorone	<1.68	U	20.0	1.68	ug/L		01/31/24 16:54	02/03/24 00:43	10
Naphthalene	7.30	J	20.0	4.23	ug/L		01/31/24 16:54	02/03/24 00:43	10
Nitrobenzene	<9.34	U	20.0	9.34	ug/L		01/31/24 16:54	02/03/24 00:43	10
N-Nitrosodi-n-propylamine	<1.61	U	20.0	1.61	ug/L		01/31/24 16:54	02/03/24 00:43	10
N-Nitrosodiphenylamine	<1.55	U	20.0	1.55	ug/L		01/31/24 16:54	02/03/24 00:43	10
Pentachlorophenol	<4.41	U	20.0	4.41	ug/L		01/31/24 16:54	02/03/24 00:43	10
Phenanthrene	<1.76	U	20.0	1.76	ug/L		01/31/24 16:54	02/03/24 00:43	10
Phenol	20.8	J	40.0	2.02	ug/L		01/31/24 16:54	02/03/24 00:43	10
Pyrene	<1.59	U	20.0	1.59	ug/L		01/31/24 16:54	02/03/24 00:43	10
Pyridine	8.72	J *1	20.0	7.25	ug/L		01/31/24 16:54	02/03/24 00:43	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	63		31 - 132	01/31/24 16:54	02/03/24 00:43	10
2-Fluorobiphenyl (Surr)	47		40 - 130	01/31/24 16:54	02/03/24 00:43	10
2-Fluorophenol (Surr)	42		21 - 114	01/31/24 16:54	02/03/24 00:43	10
Nitrobenzene-d5 (Surr)	50		37 - 130	01/31/24 16:54	02/03/24 00:43	10
p-Terphenyl-d14 (Surr)	84		20 - 141	01/31/24 16:54	02/03/24 00:43	10
Phenol-d5 (Surr)	0	S1-	16 - 117	01/31/24 16:54	02/03/24 00:43	10

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Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: Lab SOP Organotins SIM - Organotins (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyltin	<9.99	U	26.3	9.99	ng/L		01/31/24 08:20	02/01/24 16:40	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Triphenyltin	39		10 - 120				01/31/24 08:20	02/01/24 16:40	10

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	59.0		5.14	1.02	mg/L			01/29/24 12:12	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	7.27		5.14	1.02	mg/L		01/29/24 07:37	01/29/24 12:12	1
Diesel Range Organics (Over C10-C28)	43.1		5.14	1.02	mg/L		01/29/24 07:37	01/29/24 12:12	1
Oil Range Organics (Over C28-C36)	8.65		5.14	0.980	mg/L		01/29/24 07:37	01/29/24 12:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 135				01/29/24 07:37	01/29/24 12:12	1
o-Terphenyl	78		70 - 135				01/29/24 07:37	01/29/24 12:12	1

Method: SW846 8081B_LL - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00000012	U **	0.0000100	0.0000001	mg/L		02/01/24 12:24	02/02/24 13:57	1
	3			23					
4,4'-DDE	<0.00000013	U	0.0000100	0.0000001	mg/L		02/01/24 12:24	02/02/24 13:57	1
	1			31					
4,4'-DDT	<0.00000069	U	0.0000200	0.0000006	mg/L		02/01/24 12:24	02/02/24 13:57	1
	5			95					
Aldrin	<0.00000013	U	0.0000100	0.0000001	mg/L		02/01/24 12:24	02/02/24 13:57	1
	7			37					
alpha-BHC	<0.00000014	U	0.0000090	0.0000001	mg/L		02/01/24 12:24	02/02/24 13:57	1
	3		0	43					
alpha-Chlordane	<0.00000023	U	0.0000100	0.0000002	mg/L		02/01/24 12:24	02/02/24 13:57	1
	7			37					
beta-BHC	<0.00000190	U	0.0000180	0.0000019	mg/L		02/01/24 12:24	02/02/24 13:57	1
				0					
Chlorodane	<0.00000851	U	0.000250	0.0000085	mg/L		02/01/24 12:24	02/02/24 13:57	1
				1					
delta-BHC	<0.00000038	U	0.000250	0.0000003	mg/L		02/01/24 12:24	02/02/24 13:57	1
	7			87					
Dieldrin	<0.00000008	U	0.0000100	0.0000000	mg/L		02/01/24 12:24	02/02/24 13:57	1
	06			806					
Endosulfan I	<0.00000014	U	0.0000100	0.0000001	mg/L		02/01/24 12:24	02/02/24 13:57	1
	6			46					
Endosulfan II	<0.00000008	U	0.0000100	0.0000000	mg/L		02/01/24 12:24	02/02/24 13:57	1
	19			819					
Endosulfan sulfate	<0.00000031	U	0.0000100	0.0000003	mg/L		02/01/24 12:24	02/02/24 13:57	1
	2			12					
Endrin	<0.00000016	U	0.0000100	0.0000001	mg/L		02/01/24 12:24	02/02/24 13:57	1
	8			68					
Endrin aldehyde	<0.00000038	U **	0.0000100	0.0000003	mg/L		02/01/24 12:24	02/02/24 13:57	1
	4			84					

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Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: SW846 8081B_LL - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	<0.00000040	U	0.0000100	0.0000004	mg/L		02/01/24 12:24	02/02/24 13:57	1
	5			05					
gamma-BHC (Lindane)	<0.00000060	U	0.0000100	0.0000006	mg/L		02/01/24 12:24	02/02/24 13:57	1
	0			00					
Heptachlor	<0.00000109	U	0.0000090	0.0000010	mg/L		02/01/24 12:24	02/02/24 13:57	1
			0	9					
Heptachlor epoxide	<0.00000008	U	0.0000100	0.0000000	mg/L		02/01/24 12:24	02/02/24 13:57	1
	71			871					
Methoxychlor	<0.00000056	U	0.0000200	0.0000005	mg/L		02/01/24 12:24	02/02/24 13:57	1
	6			66					
Toxaphene	<0.0000196	U	0.000200	0.0000196	mg/L		02/01/24 12:24	02/02/24 13:57	1
trans-Chlordane	<0.00000059	U	0.0000100	0.0000005	mg/L		02/01/24 12:24	02/02/24 13:57	1
	9			99					
Mirex	<0.0000200	U	0.0000200	0.0000200	mg/L		02/01/24 12:24	02/02/24 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	48		15 - 136				02/01/24 12:24	02/02/24 13:57	1
Tetrachloro-m-xylene	227	S1+	18 - 126				02/01/24 12:24	02/02/24 13:57	1

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0000125	U	0.000200	0.0000125	mg/L		02/01/24 12:24	02/02/24 13:32	1
PCB-1221	<0.0000125	U	0.000200	0.0000125	mg/L		02/01/24 12:24	02/02/24 13:32	1
PCB-1232	<0.0000125	U	0.000200	0.0000125	mg/L		02/01/24 12:24	02/02/24 13:32	1
PCB-1242	<0.0000125	U	0.000200	0.0000125	mg/L		02/01/24 12:24	02/02/24 13:32	1
PCB-1248	<0.0000125	U	0.000200	0.0000125	mg/L		02/01/24 12:24	02/02/24 13:32	1
PCB-1254	<0.00000780	U	0.000200	0.0000078	mg/L		02/01/24 12:24	02/02/24 13:32	1
				0					
PCB-1260	<0.00000780	U	0.000200	0.0000078	mg/L		02/01/24 12:24	02/02/24 13:32	1
				0					
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		18 - 116				02/01/24 12:24	02/02/24 13:32	1
DCB Decachlorobiphenyl (Surr)	114		27 - 123				02/01/24 12:24	02/02/24 13:32	1

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.0000401	U	0.000200	0.0000401	mg/L		01/29/24 09:51	01/30/24 17:43	1
MCP	<0.00187	U	0.0200	0.00187	mg/L		01/29/24 09:51	01/30/24 17:43	1
MCPA	<0.00116	U	0.0200	0.00116	mg/L		01/29/24 09:51	01/30/24 17:43	1
Dinoseb	<0.0000321	U *- *1	0.000200	0.0000321	mg/L		01/29/24 09:51	01/30/24 17:43	1
Dichlorprop	<0.0000441	U	0.000200	0.0000441	mg/L		01/29/24 09:51	01/30/24 17:43	1
Dicamba	<0.0000521	U	0.000200	0.0000521	mg/L		01/29/24 09:51	01/30/24 17:43	1
Dalapon	<0.0000741	U	0.000200	0.0000741	mg/L		01/29/24 09:51	01/30/24 17:43	1
2,4-DB	<0.0000551	U	0.000200	0.0000551	mg/L		01/29/24 09:51	01/30/24 17:43	1
2,4-D	<0.000155	U	0.000200	0.000155	mg/L		01/29/24 09:51	01/30/24 17:43	1
2,4,5-TP (Silvex)	<0.0000401	U	0.000200	0.0000401	mg/L		01/29/24 09:51	01/30/24 17:43	1
2,4,5-T	<0.0000511	U	0.000200	0.0000511	mg/L		01/29/24 09:51	01/30/24 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	70	p	42 - 150				01/29/24 09:51	01/30/24 17:43	1

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Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: SW846 EPA 8141B - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Guthion	<0.0688	U *1	0.198	0.0688	ug/L		01/28/24 21:50	01/31/24 00:04	1
Demeton, Total	<0.0484	U	0.396	0.0484	ug/L		01/28/24 21:50	01/31/24 00:04	1
Chlorpyrifos	<0.0856	U	0.198	0.0856	ug/L		01/28/24 21:50	01/31/24 00:04	1
Malathion	<0.0786	U	0.198	0.0786	ug/L		01/28/24 21:50	01/31/24 00:04	1
Diazinon	<0.0774	U	0.198	0.0774	ug/L		01/28/24 21:50	01/31/24 00:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributyl phosphate	109		28 - 128	01/28/24 21:50	01/31/24 00:04	1
Triphenylphosphate	107		76 - 138	01/28/24 21:50	01/31/24 00:04	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetate	<100	U	200	100	mg/L			02/20/24 03:46	100
Nitrate as N	<3.91	U H	10.0	3.91	mg/L			02/06/24 06:52	100
Bromide	550		50.0	7.11	mg/L			02/03/24 04:34	100
Nitrite as N	<2.93	U H	10.0	2.93	mg/L			02/03/24 04:34	100
Fluoride	28.1	J	50.0	10.0	mg/L			02/03/24 04:34	100
Formate	<100	U	200	100	mg/L			02/20/24 03:46	100
Sulfate	226		50.0	20.0	mg/L			02/03/24 04:34	100

Method: EPA 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	72100		100	50.0	mg/L			02/06/24 14:58	200

Method: EPA-01 632 - Carbamate and Urea Pesticides (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<185	U	500	185	ug/L		01/29/24 15:49	02/21/24 02:12	100

Method: SW846 8015D VFA - Volatile Fatty Acids - Direct Aqueous Injection (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	112000		10000	3200	ug/L		01/30/24 17:21	01/31/24 13:36	1
Butyric acid	<2000	U	10000	2000	ug/L		01/30/24 17:21	01/31/24 13:36	1
Citric Acid	<1000	U	5000	1000	ug/L		01/30/24 17:21	01/31/24 13:36	1
Formic-acid	<2000	U	10000	2000	ug/L		01/30/24 17:21	01/31/24 13:36	1
Isovaleric acid	<3500	U	7100	3500	ug/L		01/30/24 17:21	01/31/24 13:36	1
L-Lactic Acid	<1000	U	5000	1000	ug/L		01/30/24 17:21	01/31/24 13:36	1
Oxalic Acid	<250	U	1250	250	ug/L		01/30/24 17:21	01/31/24 13:36	1
Propionic acid	6640	J	10000	2000	ug/L		01/30/24 17:21	01/31/24 13:56	1
Pyruvic Acid	<250	U	1250	250	ug/L		01/30/24 17:21	01/31/24 13:36	1
Quinic Acid	<2400	U	5000	2400	ug/L		01/30/24 17:21	01/31/24 13:36	1
Succinic Acid	<1000	U	2500	1000	ug/L		01/30/24 17:21	01/31/24 13:36	1
Tartaric Acid	<1000	U	2500	1000	ug/L		01/30/24 17:21	01/31/24 13:36	1
Valeric acid	<2000	U	5000	2000	ug/L		01/30/24 17:21	01/31/24 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Fumaric Acid	110		68 - 139	01/30/24 17:21	01/31/24 13:36	1
Fumaric Acid	110		68 - 139	01/30/24 17:21	01/31/24 13:56	1

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HMX	<0.700	U	1.60	0.700	ug/L		01/30/24 10:37	02/08/24 03:44	1

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Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: SW846 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
RDX	11.4	p	1.40	0.637	ug/L		01/30/24 10:37	02/08/24 03:44	1
1,3,5-Trinitrobenzene	<0.460	U	1.00	0.460	ug/L		01/30/24 10:37	02/08/24 03:44	1
Tetryl	<0.398	U	1.60	0.398	ug/L		01/30/24 10:37	02/08/24 03:44	1
1,3-Dinitrobenzene	<0.400	U	1.00	0.400	ug/L		01/30/24 10:37	02/08/24 03:44	1
3,5-Dinitroaniline	<0.377	U	0.900	0.377	ug/L		01/30/24 10:37	02/08/24 03:44	1
Nitroglycerin	<7.54	U	20.0	7.54	ug/L		01/30/24 10:37	02/08/24 03:44	1
2,4,6-Trinitrotoluene	<1.80	U	3.70	1.80	ug/L		01/30/24 10:37	02/08/24 03:44	1
Nitrobenzene	<0.420	U	0.900	0.420	ug/L		01/30/24 10:37	02/08/24 03:44	1
4-Amino-2,6-dinitrotoluene	<5.90	U p	5.90	5.90	ug/L		01/30/24 10:37	02/08/24 03:44	1
2-Amino-4,6-dinitrotoluene	<0.426	U	0.850	0.426	ug/L		01/30/24 10:37	02/08/24 03:44	1
2,6-Dinitrotoluene	<0.350	U	0.800	0.350	ug/L		01/30/24 10:37	02/08/24 03:44	1
2,4-Dinitrotoluene	1.56		0.700	0.330	ug/L		01/30/24 10:37	02/08/24 03:44	1
PETN	<10.1	U	23.0	10.1	ug/L		01/30/24 10:37	02/08/24 03:44	1
2-Nitrotoluene	<0.429	U	0.900	0.429	ug/L		01/30/24 10:37	02/08/24 03:44	1
4-Nitrotoluene	<0.438	U	0.900	0.438	ug/L		01/30/24 10:37	02/08/24 03:44	1
3-Nitrotoluene	4.84	p	0.800	0.378	ug/L		01/30/24 10:37	02/08/24 03:44	1
2,6-diamino-4-nitrotoluene	<0.931	U	2.00	0.931	ug/L		01/30/24 10:37	02/08/24 03:44	1
2,4-diamino-6-nitrotoluene	<3.70	U p *1	3.70	3.70	ug/L		01/30/24 10:37	02/08/24 03:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	80		68 - 122	01/30/24 10:37	02/08/24 03:44	1
2-Nitro-m-xylene	90		68 - 122	01/30/24 10:37	02/08/24 03:44	1

Method: Lab SOP VFA - HPLC - Volatile Fatty Acids (HPLC/UV)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caproic acid	<2.00	U	2.00	2.00	mg/L			02/10/24 03:57	1
Heptanoic acid	<2.00	U	2.00	2.00	mg/L			02/10/24 03:57	1
Isocaproic acid	<2.00	U	2.00	2.00	mg/L			02/10/24 03:57	1
Isovaleric acid	<2.00	U	2.00	2.00	mg/L			02/10/24 03:57	1
Propionic acid	<2.00	U	2.00	2.00	mg/L			02/10/24 03:57	1
Valeric acid	<2.00	U	2.00	2.00	mg/L			02/10/24 03:57	1
Butyric-Isobutyric Acid	<2.00	U	2.00	2.00	mg/L			02/10/24 03:57	1

Method: EPA 537 IDA - EPA 537 Isotope Dilution

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	2.67	J	5.00	2.50	ng/L		01/31/24 06:46	02/02/24 18:38	1
Perfluoroheptanoic acid	<0.750	U	5.00	0.750	ng/L		01/31/24 06:46	02/02/24 18:38	1
Perfluorooctanoic acid	<0.750	U	5.00	0.750	ng/L		01/31/24 06:46	02/02/24 18:38	1
Perfluorononanoic acid	<0.500	U	5.00	0.500	ng/L		01/31/24 06:46	02/02/24 18:38	1
Perfluorodecanoic acid	<0.750	U	5.00	0.750	ng/L		01/31/24 06:46	02/02/24 18:38	1
Perfluorotridecanoic acid	<1.00	U	5.00	1.00	ng/L		01/31/24 06:46	02/02/24 18:38	1
Perfluorotetradecanoic acid	<1.00	U	5.00	1.00	ng/L		01/31/24 06:46	02/02/24 18:38	1
Perfluorobutanesulfonic acid	<0.750	U	5.00	0.750	ng/L		01/31/24 06:46	02/02/24 18:38	1
Perfluorohexanesulfonic acid	<0.500	U	5.00	0.500	ng/L		01/31/24 06:46	02/02/24 18:38	1
Perfluorooctanesulfonic acid	<1.25	U	5.00	1.25	ng/L		01/31/24 06:46	02/02/24 18:38	1
NEtFOSAA	<1.25	U	5.00	1.25	ng/L		01/31/24 06:46	02/02/24 18:38	1
NMeFOSAA	<1.00	U	5.00	1.00	ng/L		01/31/24 06:46	02/02/24 18:38	1
Perfluorododecanoic acid	<1.00	U	5.00	1.00	ng/L		01/31/24 06:46	02/02/24 18:38	1
HFPODA	<1.00	U	5.00	1.00	ng/L		01/31/24 06:46	02/02/24 18:38	1
9CI-PF3ONS	<1.25	U	5.00	1.25	ng/L		01/31/24 06:46	02/02/24 18:38	1

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Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: EPA 537 IDA - EPA 537 Isotope Dilution (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
11Cl-PF3OUdS	<1.25	U	5.00	1.25	ng/L		01/31/24 06:46	02/02/24 18:38	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.25	U	5.00	1.25	ng/L		01/31/24 06:46	02/02/24 18:38	1
Perfluoroundecanoic acid	<0.750	U	5.00	0.750	ng/L		01/31/24 06:46	02/02/24 18:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C5 PFHxA	90		28 - 166				01/31/24 06:46	02/02/24 18:38	1
13C4 PFHpA	95		40 - 165				01/31/24 06:46	02/02/24 18:38	1
13C8 PFOA	98		52 - 153				01/31/24 06:46	02/02/24 18:38	1
13C9 PFNA	136		52 - 168				01/31/24 06:46	02/02/24 18:38	1
13C6 PFDA	101		53 - 151				01/31/24 06:46	02/02/24 18:38	1
13C2-PFDoDA	26		22 - 165				01/31/24 06:46	02/02/24 18:38	1
13C2 PFTeDA	65		10 - 171				01/31/24 06:46	02/02/24 18:38	1
13C3 PFBS	107		34 - 200				01/31/24 06:46	02/02/24 18:38	1
13C3 PFHxS	89		48 - 169				01/31/24 06:46	02/02/24 18:38	1
13C8 PFOS	100		59 - 155				01/31/24 06:46	02/02/24 18:38	1
d3-NMeFOSAA	109		38 - 168				01/31/24 06:46	02/02/24 18:38	1
d5-NEtFOSAA	37		34 - 181				01/31/24 06:46	02/02/24 18:38	1
13C3 HFPO-DA	79		13 - 170				01/31/24 06:46	02/02/24 18:38	1
13C7 PFUnA	46		41 - 163				01/31/24 06:46	02/02/24 18:38	1

Method: SW846 6850 - Perchlorate by LC/MS or LC/MS/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<2.30	U	10.0	2.30	ug/L		01/31/24 13:12	02/01/24 11:16	10

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	<7.90	U	43.6	7.90	pg/L		02/20/24 03:36	02/24/24 13:20	1
1,2,3,4,6,7,8-HpCDF	<4.36	U	43.6	4.36	pg/L		02/20/24 03:36	02/24/24 13:20	1
1,2,3,4,7,8-HxCDD	<4.36	U	43.6	4.36	pg/L		02/20/24 03:36	02/24/24 13:20	1
1,2,3,4,7,8-HxCDF	<4.36	U	43.6	4.36	pg/L		02/20/24 03:36	02/24/24 13:20	1
1,2,3,4,7,8,9-HpCDF	<4.36	U	43.6	4.36	pg/L		02/20/24 03:36	02/24/24 13:20	1
1,2,3,6,7,8-HxCDD	<4.36	U	43.6	4.36	pg/L		02/20/24 03:36	02/24/24 13:20	1
1,2,3,6,7,8-HxCDF	<4.36	U	43.6	4.36	pg/L		02/20/24 03:36	02/24/24 13:20	1
1,2,3,7,8-PeCDD	<5.51	U *	43.6	5.51	pg/L		02/20/24 03:36	02/24/24 13:20	1
1,2,3,7,8-PeCDF	<4.82	U *	43.6	4.82	pg/L		02/20/24 03:36	02/24/24 13:20	1
1,2,3,7,8,9-HxCDD	<4.36	U	43.6	4.36	pg/L		02/20/24 03:36	02/24/24 13:20	1
1,2,3,7,8,9-HxCDF	<4.36	U	43.6	4.36	pg/L		02/20/24 03:36	02/24/24 13:20	1
2,3,4,6,7,8-HxCDF	<4.36	U	43.6	4.36	pg/L		02/20/24 03:36	02/24/24 13:20	1
2,3,4,7,8-PeCDF	<4.36	U *	43.6	4.36	pg/L		02/20/24 03:36	02/24/24 13:20	1
2,3,7,8-TCDD	<1.52	U *	8.72	1.52	pg/L		02/20/24 03:36	02/24/24 13:20	1
2,3,7,8-TCDF	<1.42	U	8.72	1.42	pg/L		02/20/24 03:36	02/24/24 13:20	1
OCDD	<63.2	U	192	63.2	pg/L		02/20/24 03:36	02/24/24 13:20	1
OCDF	<10.7	U	87.2	10.7	pg/L		02/20/24 03:36	02/24/24 13:20	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	80		40 - 135				02/20/24 03:36	02/24/24 13:20	1
13C-1,2,3,4,6,7,8-HpCDF	104		40 - 135				02/20/24 03:36	02/24/24 13:20	1
13C-1,2,3,4,7,8-HxCDD	99		40 - 135				02/20/24 03:36	02/24/24 13:20	1
13C-1,2,3,4,7,8-HxCDF	130		40 - 135				02/20/24 03:36	02/24/24 13:20	1
13C-1,2,3,4,7,8,9-HpCDF	95		40 - 135				02/20/24 03:36	02/24/24 13:20	1
13C-1,2,3,6,7,8-HxCDD	97		40 - 135				02/20/24 03:36	02/24/24 13:20	1

Eurofins Midland

Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,6,7,8-HxCDF	125		40 - 135	02/20/24 03:36	02/24/24 13:20	1
13C-1,2,3,7,8-PeCDD	87		40 - 135	02/20/24 03:36	02/24/24 13:20	1
13C-1,2,3,7,8-PeCDF	90		40 - 135	02/20/24 03:36	02/24/24 13:20	1
13C-1,2,3,7,8,9-HxCDD	99		40 - 135	02/20/24 03:36	02/24/24 13:20	1
13C-1,2,3,7,8,9-HxCDF	117		40 - 135	02/20/24 03:36	02/24/24 13:20	1
13C-2,3,4,6,7,8-HxCDF	123		40 - 135	02/20/24 03:36	02/24/24 13:20	1
13C-2,3,4,7,8-PeCDF	102		40 - 135	02/20/24 03:36	02/24/24 13:20	1
13C-2,3,7,8-TCDD	104		40 - 135	02/20/24 03:36	02/24/24 13:20	1
13C-2,3,7,8-TCDF	126		40 - 135	02/20/24 03:36	02/24/24 13:20	1
13C-OCDD	71		40 - 135	02/20/24 03:36	02/24/24 13:20	1
13C-OCDF	79		40 - 135	02/20/24 03:36	02/24/24 13:20	1

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	1.80	J	10.0	1.76	mg/L		01/31/24 10:30	01/31/24 20:37	50
Antimony	<0.402	U	1.00	0.402	mg/L		01/31/24 10:30	01/31/24 20:37	50
Arsenic	<0.325	U	0.500	0.325	mg/L		01/31/24 10:30	01/31/24 20:37	50
Barium	30.3		0.500	0.0625	mg/L		01/31/24 10:30	01/31/24 20:37	50
Beryllium	<0.0535	U	0.200	0.0535	mg/L		01/31/24 10:30	01/31/24 20:37	50
Boron	13.2		2.50	0.809	mg/L		01/31/24 10:30	01/31/24 20:37	50
Cadmium	<0.0416	U	0.250	0.0416	mg/L		01/31/24 10:30	01/31/24 20:37	50
Calcium	8200	B	100	50.8	mg/L		01/31/24 10:30	01/31/24 20:47	500
Chromium	<0.108	U	0.500	0.108	mg/L		01/31/24 10:30	01/31/24 20:37	50
Cobalt	<0.0615	U	0.500	0.0615	mg/L		01/31/24 10:30	01/31/24 20:37	50
Copper	<0.194	U	1.00	0.194	mg/L		01/31/24 10:30	01/31/24 20:37	50
Iron	43.6		10.0	1.41	mg/L		01/31/24 10:30	01/31/24 20:37	50
Lead	<0.184	U	0.500	0.184	mg/L		01/31/24 10:30	01/31/24 20:37	50
Magnesium	1100		10.0	2.22	mg/L		01/31/24 10:30	01/31/24 20:37	50
Manganese	2.53		1.00	0.218	mg/L		01/31/24 10:30	01/31/24 20:37	50
Molybdenum	<0.130	U	0.500	0.130	mg/L		01/31/24 10:30	01/31/24 20:37	50
Nickel	0.259	J	0.500	0.0885	mg/L		01/31/24 10:30	01/31/24 20:37	50
Phosphorus	8.20	B	2.00	0.921	mg/L		01/31/24 10:30	01/31/24 20:37	50
Potassium	180		25.0	5.30	mg/L		01/31/24 10:30	01/31/24 20:37	50
Selenium	<0.464	U	1.50	0.464	mg/L		01/31/24 10:30	01/31/24 20:37	50
Silicon	12.7	J	25.0	8.65	mg/L		01/31/24 10:30	01/31/24 20:37	50
Silver	<0.186	U	1.00	0.186	mg/L		01/31/24 10:30	01/31/24 20:37	50
Sodium	47600		250	75.9	mg/L		01/31/24 10:30	01/31/24 20:47	500
Strontium	3610		10.0	1.54	mg/L		01/31/24 10:30	01/31/24 20:47	500
Thallium	<0.551	U	1.00	0.551	mg/L		01/31/24 10:30	01/31/24 20:37	50
Tin	<0.345	U	1.00	0.345	mg/L		01/31/24 10:30	01/31/24 20:37	50
Titanium	<0.199	U	1.50	0.199	mg/L		01/31/24 10:30	01/31/24 20:37	50
Vanadium	<0.259	U	1.00	0.259	mg/L		01/31/24 10:30	01/31/24 20:37	50
Zinc	<0.419	U	1.50	0.419	mg/L		01/31/24 10:30	01/31/24 20:37	50
Lithium	25.9		2.00	0.868	mg/L		01/31/24 10:30	01/31/24 20:37	50
Phosphate as PO4	25.1		6.13	2.82	mg/L		01/31/24 10:30	01/31/24 20:37	50

Method: SW846 6010D - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<1.76	U F2	10.0	1.76	mg/L		03/07/24 11:00	03/07/24 17:24	50
Antimony	<0.402	U F1 F2	1.00	0.402	mg/L		03/07/24 11:00	03/07/24 17:24	50

Eurofins Midland

Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: SW846 6010D - Metals (ICP) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.325	U F1 F2	0.500	0.325	mg/L		03/07/24 11:00	03/07/24 17:24	50
Barium	31.0		0.500	0.0625	mg/L		03/07/24 11:00	03/07/24 17:24	50
Beryllium	<0.0535	U	0.200	0.0535	mg/L		03/07/24 11:00	03/07/24 17:24	50
Boron	14.2		2.50	0.809	mg/L		03/07/24 11:00	03/07/24 17:24	50
Cadmium	<0.0416	U	0.250	0.0416	mg/L		03/07/24 11:00	03/07/24 17:24	50
Dissolved Calcium	6350		100	50.8	mg/L		03/07/24 11:00	03/07/24 17:42	500
Chromium	<0.108	U F2	0.500	0.108	mg/L		03/07/24 11:00	03/07/24 17:24	50
Cobalt	<0.0615	U	0.500	0.0615	mg/L		03/07/24 11:00	03/07/24 17:24	50
Copper	<0.194	U	1.00	0.194	mg/L		03/07/24 11:00	03/07/24 17:24	50
Iron	34.0		10.0	1.41	mg/L		03/07/24 11:00	03/07/24 17:24	50
Lead	<0.184	U	0.500	0.184	mg/L		03/07/24 11:00	03/07/24 17:24	50
Dissolved Magnesium	1270		10.0	2.22	mg/L		03/07/24 11:00	03/07/24 17:24	50
Manganese	2.71	F1	1.00	0.218	mg/L		03/07/24 11:00	03/07/24 17:24	50
Molybdenum	<0.130	U	0.500	0.130	mg/L		03/07/24 11:00	03/07/24 17:24	50
Nickel	0.118	J F1 F2	0.500	0.0885	mg/L		03/07/24 11:00	03/07/24 17:24	50
P	5.40		2.00	0.921	mg/L		03/07/24 11:00	03/07/24 17:24	50
Potassium	349		25.0	5.30	mg/L		03/07/24 11:00	03/07/24 17:24	50
Selenium	0.745	J F1 F2	1.50	0.464	mg/L		03/07/24 11:00	03/07/24 17:24	50
Silver	<0.186	U F2	1.00	0.186	mg/L		03/07/24 11:00	03/07/24 17:24	50
Sodium	38100		250	75.9	mg/L		03/07/24 11:00	03/07/24 17:42	500
Strontium	2900		10.0	1.54	mg/L		03/07/24 11:00	03/07/24 17:42	500
Thallium	<0.551	U F1	1.00	0.551	mg/L		03/07/24 11:00	03/07/24 17:24	50
Tin	<0.345	U F1 F2	1.00	0.345	mg/L		03/07/24 11:00	03/07/24 17:24	50
Titanium	<0.199	U	1.50	0.199	mg/L		03/07/24 11:00	03/07/24 17:24	50
Vanadium	<0.259	U	1.00	0.259	mg/L		03/07/24 11:00	03/07/24 17:24	50
Zinc	<0.419	U	1.50	0.419	mg/L		03/07/24 11:00	03/07/24 17:24	50
SiO2	31.2	J F1	53.5	18.5	mg/L		03/07/24 11:00	03/07/24 17:24	50

Method: SW846 6020A - Rare Earth Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dysprosium	<0.0500	U	0.0500	0.0500	mg/L		01/30/24 11:00	01/31/24 12:37	1
Praseodymium	<0.0500	U	0.0500	0.0500	mg/L		01/30/24 11:00	01/31/24 12:37	1
Lanthanum	<0.0500	U	0.0500	0.0500	mg/L		01/30/24 11:00	01/31/24 12:37	1
Cerium	<0.0500	U	0.0500	0.0500	mg/L		01/30/24 11:00	01/31/24 12:37	1
Neodymium	<0.0500	U	0.0500	0.0500	mg/L		01/30/24 11:00	01/31/24 12:37	1
Yttrium	<0.0500	U	0.0500	0.0500	mg/L		01/30/24 11:00	01/31/24 12:37	1
Terbium	<0.0500	U	0.0500	0.0500	mg/L		01/30/24 11:00	01/31/24 12:37	1
Europium	<0.0500	U	0.0500	0.0500	mg/L		01/30/24 11:00	01/31/24 12:37	1

Method: SW846 6020B - Metals (ICP/MS), Isotopic Uranium

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233	<0.0667	U	0.600	0.0667	ug/L		02/06/24 12:51	02/08/24 12:09	20
Uranium-234	<0.0348	U	0.600	0.0348	ug/L		02/06/24 12:51	02/08/24 12:09	20
Uranium-235	<0.280	U	0.600	0.280	ug/L		02/06/24 12:51	02/08/24 12:09	20
Uranium-236	<0.148	U	0.600	0.148	ug/L		02/06/24 12:51	02/08/24 12:09	20
Uranium-238	<0.240	U	0.600	0.240	ug/L		02/06/24 12:51	02/08/24 12:09	20

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gold	<0.0500	U	0.0500	0.0500	mg/L			01/31/24 12:37	1

Eurofins Midland

Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.0211	U	0.100	0.0211	mg/L		01/30/24 09:30	01/31/24 13:19	100
Zirconium	<0.0500	U	0.0500	0.0500	mg/L			01/31/24 12:37	1

Method: SW846 6020B - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Au	<0.0500	U	0.0500	0.0500	mg/L		02/09/24 10:30	02/14/24 13:07	1
Uranium	<0.0211	U	0.100	0.0211	mg/L		01/30/24 09:30	01/31/24 12:58	100
Zirconium	<0.0500	U	0.0500	0.0500	mg/L		02/09/24 10:30	02/14/24 13:07	1

Method: SM 2340B - Total Hardness (as CaCO3) by calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Hardness as calcium carbonate	25000		0.400	0.400	mg/L			02/06/24 12:48	1
Total hardness as CaCO3	25000		0.400	0.400	mg/L			02/06/24 12:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (1664B)	751		5.00	1.57	mg/L			02/21/24 10:19	1
Turbidity (EPA 180.1)	39	H	1.0	0.50	NTU			01/28/24 08:30	1
Ammonia (EPA 350.1)	139	H	5.00	2.55	mg/L			03/03/24 18:54	50
Oxygen, Dissolved (EPA 360.1)	4.57	HF	1.00	1.00	mg/L			01/28/24 16:36	1
Chemical Oxygen Demand (Hach 8000)	2220		400	67.2	mg/L			02/22/24 18:32	20
Ferrous Iron (Hach 8146)	23.8	HF	0.500	0.280	mg/L			02/07/24 12:19	10
Cyanide, Total (SW846 9012B)	2.14	J	5.00	2.00	ug/L		01/29/24 19:37	01/30/24 17:27	1
Halogens, Total Organic (SW846 9020B)	26500		1000	350	ug/L		02/20/24 06:30	02/21/24 10:57	1
Total Alkalinity as CaCO3 (SM 2320B)	105	^2	4.00	4.00	mg/L			02/07/24 13:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	105	^2	4.00	4.00	mg/L			02/07/24 13:10	1
Electrical Conductivity (25C) (SM 2510B)	177000	H	10.0	10.0	umho/cm @ 25C			03/04/24 15:21	1
Total Dissolved Solids (SM 2540C)	172000		1000	1000	mg/L			02/01/24 11:19	1
Total Suspended Solids (SM 2540D)	165		7.27	7.27	mg/L			02/01/24 11:54	1
Ferric Iron (SM 3500)	19.8		0.0500	0.0280	mg/L			03/04/24 09:14	1
Cr (VI) (SM 3500 CR B)	0.00268	J H H3	0.0100	0.00200	mg/L			01/29/24 09:49	1
pH (SM 4500 H+ B)	6.1	HF	0.1	0.1	S.U.			03/04/24 15:21	1
Sulfide (SM 4500 S2 D)	<0.0400	U	0.100	0.0400	mg/L			01/30/24 13:21	1
Total Organic Carbon (SM 5310B)	79.8		2.00	1.00	mg/L			02/03/24 08:41	2
Methylene Blue Active Substances (SM 5540C)	0.127	H	0.100	0.0800	mg/L			01/27/24 18:27	1
Un-ionized Hydrogen Sulfide (SM4500 S2 H)	<5.00	U	5.00	5.00	mg/L			03/08/24 12:08	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon (SM 5310B)	71.5		1.00	0.500	mg/L			02/03/24 00:13	1

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Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Method: EPA 900.0 - Gross Alpha and Gross Beta Radioactivity

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	1320	U G	1030	1040	3.00	1590	pCi/L	02/05/24 10:15	02/08/24 18:34	1
Gross Beta	563	G	330	334	4.00	481	pCi/L	02/05/24 10:15	02/08/24 18:34	1

Method: EPA 901.1 - Radium-226 & Other Gamma Emitters (GS)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-227	-77.8	U	190	190		243	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Actinium-228	435		58.3	77.5		59.1	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Bismuth-212	2.66	U	236	236		410	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Bismuth-214	862		70.2	123		37.9	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Lead-210	171	U	274	275		357	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Lead-212	-20.5	U	39.9	39.9		72.4	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Lead-214	813		58.5	112		36.6	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Potassium-40	55.6	U	235	235		268	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Protactinium-231	0.000	U	190	190		2790	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Radium-226	862		70.2	123	50.0	37.9	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Radium-228	435	G	58.3	77.5	50.0	59.1	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Thallium-208	9.22	U	22.0	22.0		24.0	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Thorium-232	435		58.3	77.5		59.1	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Thorium-234	-92.8	U	571	571		955	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Uranium 235	-6.39	U	184	184		231	pCi/L	01/30/24 12:50	02/20/24 20:47	1
Uranium 238	-92.8	U	571	571		955	pCi/L	01/30/24 12:50	02/20/24 20:47	1

Method: EPA 903.0 - Radium-226 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	24.3		1.26	2.52	1.00	0.215	pCi/L	02/02/24 09:54	02/26/24 12:19	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	324	X	30 - 110					02/02/24 09:54	02/26/24 12:19	1

Method: EPA 904.0 - Radium-228 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	18.6	G	1.92	2.58	1.00	1.09	pCi/L	02/02/24 09:58	02/15/24 11:24	1
Carrier	%Yield	Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	324	X	30 - 110					02/02/24 09:58	02/15/24 11:24	1
Y Carrier	72.5		30 - 110					02/02/24 09:58	02/15/24 11:24	1

Method: EPA 905 - Strontium-90 (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium-90	3.16	U G	5.15	5.15	3.00	8.64	pCi/L	01/31/24 09:16	02/12/24 16:18	1

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Client Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Date Collected: 01/25/24 00:00

Date Received: 01/26/24 12:18

Lab Sample ID: 880-38528-1

Matrix: Water

Carrier	%Yield	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Sr Carrier	16.0	X	30 - 110	01/31/24 09:16	02/12/24 16:18	1
Y Carrier	85.6		30 - 110	01/31/24 09:16	02/12/24 16:18	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Surrogate Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-120)
880-38528-1	Raw Produced	104	101	116	101
LCS 860-142954/4	Lab Control Sample	99	100	100	100
LCSD 860-142954/5	Lab Control Sample Dup	100	102	100	100
MB 860-142954/11	Method Blank	102	107	99	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (54-146)	NBZ (46-151)	TPHd14 (51-139)
880-38528-1	Raw Produced	94	200 S1+	83
LCS 860-143347/2-A	Lab Control Sample	127	110	69
LCSD 860-143347/3-A	Lab Control Sample Dup	116	102	58
MB 860-143347/1-A	Method Blank	132	107	84

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (31-132)	FBP (40-130)	2FP (21-114)	NBZ (37-130)	TPHd14 (20-141)	PHL (16-117)
880-38528-1	Raw Produced	63	47	42	50	84	0 S1-
LCS 860-143128/2-A	Lab Control Sample	70	65	43	68	103	34
LCSD 860-143128/3-A	Lab Control Sample Dup	87	85	54	74	97	43
MB 860-143128/1-A	Method Blank	46	60	36	55	87	26

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
PHL = Phenol-d5 (Surr)

Surrogate Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: Organotins SIM - Organotins (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TPTT (10-120)
880-38528-1	Raw Produced	39
LCS 570-405719/2-A	Lab Control Sample	100
LCSD 570-405719/3-A	Lab Control Sample Dup	86
MB 570-405719/1-A	Method Blank	95

Surrogate Legend

TPTT = Triphenyltin

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-135)	OTPH1 (70-135)
880-38528-1	Raw Produced	105	78
LCS 860-142559/2-A	Lab Control Sample	107	103
LCSD 860-142559/3-A	Lab Control Sample Dup	106	101
MB 860-142559/1-A	Method Blank	97	96

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Method: 8081B_LL - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCB1 (15-136)	TCX1 (18-126)
880-38528-1	Raw Produced	48	227 S1+
LCS 860-143280/2-A	Lab Control Sample	140 S1+	95
LCSD 860-143280/3-A	Lab Control Sample Dup	143 S1+	102
MB 860-143280/1-A	Method Blank	143 S1+	89

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (18-116)	DCB1 (27-123)
880-38528-1	Raw Produced	71	114
LCS 860-143280/13-A	Lab Control Sample	122 S1+	149 S1+
LCSD 860-143280/14-A	Lab Control Sample Dup	121 S1+	140 S1+
MB 860-143280/1-A	Method Blank	115	146 S1+

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

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Surrogate Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8151A - Herbicides (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCPAA2 (42-150)
880-38528-1	Raw Produced	70 p
LCS 860-142589/2-A	Lab Control Sample	90
LCSD 860-142589/3-A	Lab Control Sample Dup	93
MB 860-142589/1-A	Method Blank	77

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: EPA 8141B - Organophosphorous Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBPH1 (28-128)	TPP1 (76-138)
880-38528-1	Raw Produced	109	107
MB 180-458082/1-A	Method Blank	84	98

Surrogate Legend

TBPH = Tributyl phosphate

TPP = Triphenylphosphate

Method: EPA 8141B - Organophosphorous Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBPH2 (28-128)	TPP1 (76-138)
LCS 180-458082/2-A	Lab Control Sample	112	99
LCSD 180-458082/3-A	Lab Control Sample Dup	116	103

Surrogate Legend

TBPH = Tributyl phosphate

TPP = Triphenylphosphate

Method: 8015D VFA - Volatile Fatty Acids - Direct Aqueous Injection (HPLC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FumAcd1 (68-139)
880-38528-1	Raw Produced	110
880-38528-1	Raw Produced	110
LCS 410-468290/4-A	Lab Control Sample	90
LCS 410-468290/4-A	Lab Control Sample	102
LCSD 410-468290/3-A	Lab Control Sample Dup	107
MB 410-468290/1-A	Method Blank	83
MB 410-468290/1-A	Method Blank	107

Surrogate Legend

FumAcd = Fumaric Acid

Surrogate Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC)
Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	2NMX1 (68-122)	2NMX2 (68-122)
880-38528-1	Raw Produced	90	80
LCS 410-468013/2-A	Lab Control Sample	95	93
LCS 410-468013/4-A	Lab Control Sample	97	93
LCSD 410-468013/3-A	Lab Control Sample Dup	94	93
LCSD 410-468013/5-A	Lab Control Sample Dup	92	87
MB 410-468013/1-A	Method Blank	96	92
Surrogate Legend			
2NMX = 2-Nitro-m-xylene			

Isotope Dilution Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 537 IDA - EPA 537 Isotope Dilution

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	13C5PHA (28-166)	C4PFHA (40-165)	C8PFOA (52-153)	C9PFNA (52-168)	C6PFDA (53-151)	PFDODA (22-165)	PFTDA (10-171)	C3PFBS (34-200)
880-38528-1	Raw Produced	90	95	98	136	101	26	65	107
LCS 410-468437/2-A	Lab Control Sample	91	90	93	105	94	97	100	100
LCSD 410-468437/3-A	Lab Control Sample Dup	91	93	98	107	99	98	102	103
MB 410-468437/1-A	Method Blank	88	90	94	101	90	90	90	96

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	C3PFHS (48-169)	C8PFOS (59-155)	d3NMFOFOS (38-168)	d5NEFOS (34-181)	HFPODA (13-170)	13C7PUA (41-163)
880-38528-1	Raw Produced	89	100	109	37	79	46
LCS 410-468437/2-A	Lab Control Sample	96	97	108	122	95	91
LCSD 410-468437/3-A	Lab Control Sample Dup	99	100	111	121	104	94
MB 410-468437/1-A	Method Blank	94	94	98	111	94	86

Surrogate Legend

13C5PHA = 13C5 PFHxA
C4PFHA = 13C4 PFHpA
C8PFOA = 13C8 PFOA
C9PFNA = 13C9 PFNA
C6PFDA = 13C6 PFDA
PFDODA = 13C2-PFDODA
PFTDA = 13C2 PFTeDA
C3PFBS = 13C3 PFBS
C3PFHS = 13C3 PFHxS
C8PFOS = 13C8 PFOS
d3NMFOFOS = d3-NMeFOSAA
d5NEFOS = d5-NEtFOSAA
HFPODA = 13C3 HFPO-DA
13C7PUA = 13C7 PFUnA

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HpCDD (40-135)	HpCDF (40-135)	HxCDD (40-135)	HxCDF (40-135)	HpCDF2 (40-135)	HxDD (40-135)	HxDF (40-135)	PeCDD (40-135)
880-38528-1	Raw Produced	80	104	99	130	95	97	125	87
LCS 410-474882/2-A	Lab Control Sample	97	110	103	124	118	101	118	73
MB 410-474882/1-A	Method Blank	112	115	113	121	134	115	119	93

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PeCDF (40-135)	13CHxCD (40-135)	HxCF (40-135)	13CHxCF (40-135)	PeCF (40-135)	TCDD (40-135)	TCDF (40-135)	OCDD (40-135)
880-38528-1	Raw Produced	90	99	117	123	102	104	126	71
LCS 410-474882/2-A	Lab Control Sample	94	101	111	117	87	117	118	94
MB 410-474882/1-A	Method Blank	109	117	120	115	111	128	106	129

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OCDF (40-135)
880-38528-1	Raw Produced	79
LCS 410-474882/2-A	Lab Control Sample	111
MB 410-474882/1-A	Method Blank	134

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Isotope Dilution Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Surrogate Legend

HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HpCDF2 = 13C-1,2,3,4,7,8,9-HpCDF
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxDF = 13C-1,2,3,6,7,8-HxCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
13CHxCD = 13C-1,2,3,7,8,9-HxCDD
HxCF = 13C-1,2,3,7,8,9-HxCDF
13CHxCF = 13C-2,3,4,6,7,8-HxCDF
PeCF = 13C-2,3,4,7,8-PeCDF
TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
OCDD = 13C-OCDD
OCDF = 13C-OCDF

Tracer/Carrier Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 903.0 - Radium-226 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba (30-110)					
880-38528-1	Raw Produced	324 X					
LCS 160-646710/2-A	Lab Control Sample	93.3					
MB 160-646710/1-A	Method Blank	97.8					
Tracer/Carrier Legend							
Ba = Ba Carrier							

Method: 904.0 - Radium-228 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Ba (30-110)	Y (30-110)				
880-38528-1	Raw Produced	324 X	72.5				
LCS 160-646711/2-A	Lab Control Sample	93.3	84.5				
MB 160-646711/1-A	Method Blank	97.8	86.0				
Tracer/Carrier Legend							
Ba = Ba Carrier							
Y = Y Carrier							

Method: 905 - Strontium-90 (GFPC)

Matrix: Water

Prep Type: Total/NA

		Percent Yield (Acceptance Limits)					
Lab Sample ID	Client Sample ID	Sr (30-110)	Y (30-110)				
880-38528-1	Raw Produced	16.0 X	85.6				
LCS 160-646341/2-A	Lab Control Sample	82.1	92.7				
MB 160-646341/1-A	Method Blank	83.1	95.3				
Tracer/Carrier Legend							
Sr = Sr Carrier							
Y = Y Carrier							

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-142954/11

Matrix: Water

Analysis Batch: 142954

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Freon 113	<0.00111	U	0.0100	0.00111	mg/L			01/31/24 10:38	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			01/31/24 10:38	1
cis-1,2-Dichloroethene	<0.000457	U	0.00100	0.000457	mg/L			01/31/24 10:38	1
cis-1,3-Dichloropropene	<0.00107	U	0.00500	0.00107	mg/L			01/31/24 10:38	1
Isopropylbenzene	<0.000592	U	0.00100	0.000592	mg/L			01/31/24 10:38	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			01/31/24 10:38	1
n-Butylbenzene	<0.000510	U	0.00100	0.000510	mg/L			01/31/24 10:38	1
N-Propylbenzene	<0.000429	U	0.00100	0.000429	mg/L			01/31/24 10:38	1
o-Xylene	<0.000502	U	0.00100	0.000502	mg/L			01/31/24 10:38	1
p-Cymene (p-Isopropyltoluene)	<0.000676	U	0.00100	0.000676	mg/L			01/31/24 10:38	1
tert-Butylbenzene	<0.000442	U	0.00100	0.000442	mg/L			01/31/24 10:38	1
trans-1,2-Dichloroethene	<0.000368	U	0.00100	0.000368	mg/L			01/31/24 10:38	1
trans-1,3-Dichloropropene	<0.00127	U	0.00500	0.00127	mg/L			01/31/24 10:38	1
2-Chloroethyl vinyl ether	<0.000753	U	0.00500	0.000753	mg/L			01/31/24 10:38	1
2-Chlorotoluene	<0.000459	U	0.00200	0.000459	mg/L			01/31/24 10:38	1
Vinyl chloride	<0.000428	U	0.00200	0.000428	mg/L			01/31/24 10:38	1
1,1,1,2-Tetrachloroethane	<0.000644	U	0.00100	0.000644	mg/L			01/31/24 10:38	1
2-Hexanone	<0.00745	U	0.0500	0.00745	mg/L			01/31/24 10:38	1
1,1,1-Trichloroethane	<0.000585	U	0.00500	0.000585	mg/L			01/31/24 10:38	1
1,1,2,2-Tetrachloroethane	<0.000470	U	0.00100	0.000470	mg/L			01/31/24 10:38	1
1,1,2-Trichloroethane	<0.000411	U	0.00100	0.000411	mg/L			01/31/24 10:38	1
4-Methyl-2-pentanone	<0.00749	U	0.0500	0.00749	mg/L			01/31/24 10:38	1
1,1-Dichloroethane	<0.000635	U	0.00100	0.000635	mg/L			01/31/24 10:38	1
Acetonitrile	<0.0146	U	0.100	0.0146	mg/L			01/31/24 10:38	1
1,1-Dichloroethene	<0.000738	U	0.00100	0.000738	mg/L			01/31/24 10:38	1
Acetone	<0.00307	U	0.100	0.00307	mg/L			01/31/24 10:38	1
1,1-Dichloropropene	<0.000624	U	0.00500	0.000624	mg/L			01/31/24 10:38	1
Acrolein	<0.0111	U	0.0500	0.0111	mg/L			01/31/24 10:38	1
1,2,3-Trichlorobenzene	<0.00177	U	0.00500	0.00177	mg/L			01/31/24 10:38	1
Acrylonitrile	<0.0143	U	0.0500	0.0143	mg/L			01/31/24 10:38	1
1,2,3-Trichloropropane	<0.000470	U	0.00100	0.000470	mg/L			01/31/24 10:38	1
1,2,4-Trichlorobenzene	<0.00175	U	0.00500	0.00175	mg/L			01/31/24 10:38	1
1,2,4-Trimethylbenzene	<0.000417	U	0.00100	0.000417	mg/L			01/31/24 10:38	1
1,2-Dibromo-3-Chloropropane	<0.000671	U	0.00500	0.000671	mg/L			01/31/24 10:38	1
1,2-Dibromoethane	<0.000999	U	0.00500	0.000999	mg/L			01/31/24 10:38	1
1,2-Dichlorobenzene	<0.000429	U	0.00100	0.000429	mg/L			01/31/24 10:38	1
1,2-Dichloroethane	<0.000372	U	0.00100	0.000372	mg/L			01/31/24 10:38	1
Carbon disulfide	<0.00165	U	0.00500	0.00165	mg/L			01/31/24 10:38	1
1,2-Dichloropropane	<0.000556	U	0.00500	0.000556	mg/L			01/31/24 10:38	1
1,3,5-Trimethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			01/31/24 10:38	1
1,3-Dichlorobenzene	<0.000413	U	0.00100	0.000413	mg/L			01/31/24 10:38	1
1,3-Dichloropropane	<0.000514	U	0.00500	0.000514	mg/L			01/31/24 10:38	1
1,4-Dichlorobenzene	<0.000449	U	0.00100	0.000449	mg/L			01/31/24 10:38	1
Cyclohexane	<0.00129	U	0.00500	0.00129	mg/L			01/31/24 10:38	1
Dibromomethane	<0.000357	U	0.00100	0.000357	mg/L			01/31/24 10:38	1
2,2-Dichloropropane	<0.000679	U	0.00500	0.000679	mg/L			01/31/24 10:38	1
2-Butanone	<0.00828	U	0.0500	0.00828	mg/L			01/31/24 10:38	1
Iodomethane (Methyl Iodide)	<0.00652	U	0.0200	0.00652	mg/L			01/31/24 10:38	1

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-142954/11

Matrix: Water

Analysis Batch: 142954

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isobutyl alcohol	<0.0171	U	0.0500	0.0171	mg/L			01/31/24 10:38	1
2-Propanol	<0.00523	U	0.0100	0.00523	mg/L			01/31/24 10:38	1
4-Chlorotoluene	<0.000386	U	0.00100	0.000386	mg/L			01/31/24 10:38	1
Methyl acetate	<0.00401	U	0.0200	0.00401	mg/L			01/31/24 10:38	1
Methylcyclohexane	<0.000608	U	0.0100	0.000608	mg/L			01/31/24 10:38	1
Benzene	<0.000460	U	0.00100	0.000460	mg/L			01/31/24 10:38	1
Bromobenzene	<0.000486	U	0.00100	0.000486	mg/L			01/31/24 10:38	1
Bromochloromethane	<0.000577	U	0.00100	0.000577	mg/L			01/31/24 10:38	1
Bromodichloromethane	<0.000552	U	0.00100	0.000552	mg/L			01/31/24 10:38	1
Bromoform	<0.000633	U	0.00500	0.000633	mg/L			01/31/24 10:38	1
Bromomethane	<0.00142	U	0.00500	0.00142	mg/L			01/31/24 10:38	1
Tetrahydrofuran	<0.00183	U	0.0100	0.00183	mg/L			01/31/24 10:38	1
Carbon tetrachloride	<0.000896	U	0.00500	0.000896	mg/L			01/31/24 10:38	1
Chlorobenzene	<0.000455	U	0.00100	0.000455	mg/L			01/31/24 10:38	1
Chloroethane	<0.00198	U	0.0100	0.00198	mg/L			01/31/24 10:38	1
Chloroform	<0.000464	U	0.00100	0.000464	mg/L			01/31/24 10:38	1
Chloromethane	<0.00204	U	0.0100	0.00204	mg/L			01/31/24 10:38	1
Vinyl acetate	<0.00214	U	0.0200	0.00214	mg/L			01/31/24 10:38	1
Dibromochloromethane	<0.000547	U	0.00500	0.000547	mg/L			01/31/24 10:38	1
Dichlorodifluoromethane	<0.000785	U	0.00100	0.000785	mg/L			01/31/24 10:38	1
Ethylbenzene	<0.000385	U	0.00100	0.000385	mg/L			01/31/24 10:38	1
Hexachlorobutadiene	<0.000627	U	0.00500	0.000627	mg/L			01/31/24 10:38	1
n-Hexane	<0.000517	U	0.00500	0.000517	mg/L			01/31/24 10:38	1
MTBE	<0.00139	U	0.00500	0.00139	mg/L			01/31/24 10:38	1
Methylene Chloride	<0.00173	U	0.00500	0.00173	mg/L			01/31/24 10:38	1
Naphthalene	<0.00135	U	0.0100	0.00135	mg/L			01/31/24 10:38	1
t-Butyl alcohol	<0.00500	U	0.0500	0.00500	mg/L			01/31/24 10:38	1
sec-Butylbenzene	<0.000468	U	0.00100	0.000468	mg/L			01/31/24 10:38	1
trans-1,4-Dichloro-2-butene	<0.00135	U	0.0100	0.00135	mg/L			01/31/24 10:38	1
Styrene	<0.000619	U	0.00100	0.000619	mg/L			01/31/24 10:38	1
Tetrachloroethene	<0.000655	U	0.00100	0.000655	mg/L			01/31/24 10:38	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			01/31/24 10:38	1
Trichloroethene	<0.00150	U	0.00500	0.00150	mg/L			01/31/24 10:38	1
Trichlorofluoromethane	<0.000560	U	0.00100	0.000560	mg/L			01/31/24 10:38	1
Allyl Chloride (3-Chloropropene)	<0.000597	U	0.00500	0.000597	mg/L			01/31/24 10:38	1
2-Chloro-1,3-butadiene	<0.000598	U	0.00500	0.000598	mg/L			01/31/24 10:38	1
Propane Nitrile (Propionitrile)	<0.00334	U	0.0100	0.00334	mg/L			01/31/24 10:38	1
Methacrylonitrile	<0.00272	U	0.0100	0.00272	mg/L			01/31/24 10:38	1
Methyl methacrylate	<0.00225	U	0.0100	0.00225	mg/L			01/31/24 10:38	1
Ethyl ether	<0.0100	U	0.100	0.0100	mg/L			01/31/24 10:38	1
Ethyl acetate	<0.000621	U	0.00200	0.000621	mg/L			01/31/24 10:38	1
2-Nitropropane	<0.00336	U	0.0100	0.00336	mg/L			01/31/24 10:38	1
Ethyl methacrylate	<0.00112	U	0.00500	0.00112	mg/L			01/31/24 10:38	1
Isopropyl acetate	<0.000576	U	0.00500	0.000576	mg/L			01/31/24 10:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		01/31/24 10:38	1
4-Bromofluorobenzene (Surr)	107		74 - 124		01/31/24 10:38	1

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-142954/11

Matrix: Water

Analysis Batch: 142954

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		75 - 131		01/31/24 10:38	1
Toluene-d8 (Surr)	100		80 - 120		01/31/24 10:38	1

Lab Sample ID: LCS 860-142954/4

Matrix: Water

Analysis Batch: 142954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Freon 113	0.0500	0.05290		mg/L		106	60 - 140
cis-1,2-Dichloroethene	0.0500	0.05396		mg/L		108	75 - 125
cis-1,3-Dichloropropene	0.0500	0.05490		mg/L		110	74 - 125
Isopropylbenzene	0.0500	0.05429		mg/L		109	75 - 125
m,p-Xylenes	0.0500	0.05411		mg/L		108	75 - 125
n-Butylbenzene	0.0500	0.05454		mg/L		109	75 - 125
N-Propylbenzene	0.0500	0.05347		mg/L		107	75 - 125
o-Xylene	0.0500	0.05380		mg/L		108	75 - 125
p-Cymene (p-Isopropyltoluene)	0.0500	0.05348		mg/L		107	75 - 125
tert-Butylbenzene	0.0500	0.05242		mg/L		105	75 - 125
trans-1,2-Dichloroethene	0.0500	0.05195		mg/L		104	75 - 125
trans-1,3-Dichloropropene	0.0500	0.05563		mg/L		111	66 - 125
2-Chloroethyl vinyl ether	0.0500	0.05662		mg/L		113	50 - 150
2-Chlorotoluene	0.0500	0.05189		mg/L		104	73 - 125
Vinyl chloride	0.0500	0.05852		mg/L		117	60 - 140
1,1,1,2-Tetrachloroethane	0.0500	0.05452		mg/L		109	72 - 125
2-Hexanone	0.250	0.2712		mg/L		108	60 - 140
1,1,1-Trichloroethane	0.0500	0.05459		mg/L		109	70 - 130
1,1,2,2-Tetrachloroethane	0.0500	0.05210		mg/L		104	74 - 125
1,1,2-Trichloroethane	0.0500	0.05460		mg/L		109	75 - 130
4-Methyl-2-pentanone	0.250	0.2695		mg/L		108	60 - 140
1,1-Dichloroethane	0.0500	0.05461		mg/L		109	71 - 130
Acetonitrile	0.500	0.4797		mg/L		96	60 - 140
1,1-Dichloroethene	0.0500	0.05072		mg/L		101	50 - 150
Acetone	0.250	0.2544		mg/L		102	60 - 140
1,1-Dichloropropene	0.0500	0.05151		mg/L		103	75 - 125
Acrolein	0.250	0.3095		mg/L		124	60 - 140
1,2,3-Trichlorobenzene	0.0500	0.05332		mg/L		107	75 - 137
Acrylonitrile	0.500	0.4886		mg/L		98	60 - 140
1,2,3-Trichloropropane	0.0500	0.05103		mg/L		102	75 - 125
1,2,4-Trichlorobenzene	0.0500	0.05570		mg/L		111	75 - 135
1,2,4-Trimethylbenzene	0.0500	0.05318		mg/L		106	75 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.06050		mg/L		121	59 - 125
1,2-Dibromoethane	0.0500	0.05174		mg/L		103	73 - 125
1,2-Dichlorobenzene	0.0500	0.05257		mg/L		105	75 - 125
1,2-Dichloroethane	0.0500	0.05434		mg/L		109	72 - 130
Carbon disulfide	0.0500	0.04976		mg/L		100	60 - 140
1,2-Dichloropropane	0.0500	0.05586		mg/L		112	74 - 125
1,3,5-Trimethylbenzene	0.0500	0.05273		mg/L		105	60 - 140
1,3-Dichlorobenzene	0.0500	0.05253		mg/L		105	75 - 125

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-142954/4

Matrix: Water

Analysis Batch: 142954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,3-Dichloropropane	0.0500	0.05295		mg/L		106	75 - 125
1,4-Dichlorobenzene	0.0500	0.05239		mg/L		105	75 - 125
Cyclohexane	0.0500	0.04747		mg/L		95	70 - 130
Dibromomethane	0.0500	0.05495		mg/L		110	69 - 127
2,2-Dichloropropane	0.0500	0.05511		mg/L		110	75 - 125
2-Butanone	0.250	0.2475		mg/L		99	60 - 140
Iodomethane (Methyl Iodide)	0.0500	0.05107		mg/L		102	75 - 125
Isobutyl alcohol	1.24	1.203		mg/L		97	60 - 140
4-Chlorotoluene	0.0500	0.05355		mg/L		107	74 - 125
Methyl acetate	0.100	0.09044		mg/L		90	60 - 140
Methylcyclohexane	0.0500	0.05438		mg/L		109	75 - 125
Benzene	0.0500	0.05386		mg/L		108	75 - 125
Bromobenzene	0.0500	0.05254		mg/L		105	75 - 125
Bromochloromethane	0.0500	0.05411		mg/L		108	60 - 140
Bromodichloromethane	0.0500	0.05470		mg/L		109	75 - 125
Bromoform	0.0500	0.05632		mg/L		113	70 - 130
Bromomethane	0.0500	0.05039		mg/L		101	60 - 140
Tetrahydrofuran	0.100	0.1059		mg/L		106	75 - 125
Carbon tetrachloride	0.0500	0.05030		mg/L		101	70 - 125
Chlorobenzene	0.0500	0.05358		mg/L		107	82 - 135
Chloroethane	0.0500	0.05287		mg/L		106	60 - 140
Chloroform	0.0500	0.05399		mg/L		108	70 - 121
Chloromethane	0.0500	0.05836		mg/L		117	60 - 140
Vinyl acetate	0.250	0.2625		mg/L		105	60 - 140
Dibromochloromethane	0.0500	0.05588		mg/L		112	73 - 125
Dichlorodifluoromethane	0.0500	0.05506		mg/L		110	50 - 150
Ethylbenzene	0.0500	0.05423		mg/L		108	75 - 125
Hexachlorobutadiene	0.0500	0.05439		mg/L		109	75 - 125
n-Hexane	0.0500	0.05738		mg/L		115	72 - 125
MTBE	0.0500	0.05042		mg/L		101	65 - 135
Methylene Chloride	0.0500	0.04810		mg/L		96	71 - 125
Naphthalene	0.0500	0.05415		mg/L		108	70 - 130
t-Butyl alcohol	0.500	0.4507		mg/L		90	65 - 135
sec-Butylbenzene	0.0500	0.05310		mg/L		106	75 - 125
trans-1,4-Dichloro-2-butene	0.0500	0.05133		mg/L		103	70 - 130
Styrene	0.0500	0.05507		mg/L		110	75 - 125
Tetrachloroethene	0.0500	0.05466		mg/L		109	71 - 125
Toluene	0.0500	0.05354		mg/L		107	75 - 130
Trichloroethene	0.0500	0.05527		mg/L		111	75 - 135
Trichlorofluoromethane	0.0500	0.05353		mg/L		107	60 - 140
Allyl Chloride (3-Chloropropene)	0.0500	0.04807		mg/L		96	70 - 130
2-Chloro-1,3-butadiene	0.0500	0.05672		mg/L		113	70 - 130
Propane Nitrile (Propionitrile)	0.500	0.5327		mg/L		107	70 - 130
Methacrylonitrile	0.500	0.5294		mg/L		106	70 - 130
Methyl methacrylate	0.100	0.1102		mg/L		110	70 - 130
Ethyl ether	0.0500	0.05209	J	mg/L		104	70 - 130
Ethyl acetate	0.100	0.1035		mg/L		103	70 - 130
2-Nitropropane	0.100	0.1161		mg/L		116	75 - 125

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-142954/4

Matrix: Water

Analysis Batch: 142954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		63 - 144
4-Bromofluorobenzene (Surr)	100		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: LCSD 860-142954/5

Matrix: Water

Analysis Batch: 142954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Freon 113	0.0500	0.05169		mg/L		103	60 - 140	2	25
cis-1,2-Dichloroethene	0.0500	0.05367		mg/L		107	75 - 125	1	25
cis-1,3-Dichloropropene	0.0500	0.05404		mg/L		108	74 - 125	2	25
Isopropylbenzene	0.0500	0.05333		mg/L		107	75 - 125	2	25
m,p-Xylenes	0.0500	0.05343		mg/L		107	75 - 125	1	25
n-Butylbenzene	0.0500	0.05429		mg/L		109	75 - 125	0	25
N-Propylbenzene	0.0500	0.05353		mg/L		107	75 - 125	0	25
o-Xylene	0.0500	0.05264		mg/L		105	75 - 125	2	25
p-Cymene (p-Isopropyltoluene)	0.0500	0.05328		mg/L		107	75 - 125	0	25
tert-Butylbenzene	0.0500	0.05247		mg/L		105	75 - 125	0	25
trans-1,2-Dichloroethene	0.0500	0.04979		mg/L		100	75 - 125	4	25
trans-1,3-Dichloropropene	0.0500	0.05471		mg/L		109	66 - 125	2	25
2-Chloroethyl vinyl ether	0.0500	0.05536		mg/L		111	50 - 150	2	25
2-Chlorotoluene	0.0500	0.05139		mg/L		103	73 - 125	1	25
Vinyl chloride	0.0500	0.05264		mg/L		105	60 - 140	11	25
1,1,1,2-Tetrachloroethane	0.0500	0.05349		mg/L		107	72 - 125	2	25
2-Hexanone	0.250	0.2621		mg/L		105	60 - 140	3	25
1,1,1-Trichloroethane	0.0500	0.05484		mg/L		110	70 - 130	0	25
1,1,2,2-Tetrachloroethane	0.0500	0.05243		mg/L		105	74 - 125	1	25
1,1,2-Trichloroethane	0.0500	0.05368		mg/L		107	75 - 130	2	25
4-Methyl-2-pentanone	0.250	0.2613		mg/L		105	60 - 140	3	25
1,1-Dichloroethane	0.0500	0.05372		mg/L		107	71 - 130	2	25
Acetonitrile	0.500	0.4432		mg/L		89	60 - 140	8	25
1,1-Dichloroethene	0.0500	0.05035		mg/L		101	50 - 150	1	25
Acetone	0.250	0.2446		mg/L		98	60 - 140	4	25
1,1-Dichloropropene	0.0500	0.05303		mg/L		106	75 - 125	3	25
Acrolein	0.250	0.2997		mg/L		120	60 - 140	3	25
1,2,3-Trichlorobenzene	0.0500	0.06595		mg/L		132	75 - 137	21	25
Acrylonitrile	0.500	0.4609		mg/L		92	60 - 140	6	25
1,2,3-Trichloropropane	0.0500	0.05128		mg/L		103	75 - 125	0	25
1,2,4-Trichlorobenzene	0.0500	0.06012		mg/L		120	75 - 135	8	25
1,2,4-Trimethylbenzene	0.0500	0.05272		mg/L		105	75 - 125	1	25
1,2-Dibromo-3-Chloropropane	0.0500	0.05345		mg/L		107	59 - 125	12	25
1,2-Dibromoethane	0.0500	0.05051		mg/L		101	73 - 125	2	25
1,2-Dichlorobenzene	0.0500	0.05212		mg/L		104	75 - 125	1	25
1,2-Dichloroethane	0.0500	0.05370		mg/L		107	72 - 130	1	25
Carbon disulfide	0.0500	0.04781		mg/L		96	60 - 140	4	25
1,2-Dichloropropane	0.0500	0.05521		mg/L		110	74 - 125	1	25

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-142954/5

Matrix: Water

Analysis Batch: 142954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,3,5-Trimethylbenzene	0.0500	0.05274		mg/L		105	60 - 140	0	25
1,3-Dichlorobenzene	0.0500	0.05209		mg/L		104	75 - 125	1	25
1,3-Dichloropropane	0.0500	0.05271		mg/L		105	75 - 125	0	25
1,4-Dichlorobenzene	0.0500	0.05146		mg/L		103	75 - 125	2	25
Cyclohexane	0.0500	0.04673		mg/L		93	70 - 130	2	25
Dibromomethane	0.0500	0.05376		mg/L		108	69 - 127	2	25
2,2-Dichloropropane	0.0500	0.05509		mg/L		110	75 - 125	0	25
2-Butanone	0.250	0.2446		mg/L		98	60 - 140	1	25
Iodomethane (Methyl Iodide)	0.0500	0.04887		mg/L		98	75 - 125	4	25
Isobutyl alcohol	1.24	1.108		mg/L		89	60 - 140	8	25
4-Chlorotoluene	0.0500	0.05321		mg/L		106	74 - 125	1	25
Methyl acetate	0.100	0.09426		mg/L		94	60 - 140	4	25
Methylcyclohexane	0.0500	0.05442		mg/L		109	75 - 125	0	25
Benzene	0.0500	0.05247		mg/L		105	75 - 125	3	25
Bromobenzene	0.0500	0.05285		mg/L		106	75 - 125	1	25
Bromochloromethane	0.0500	0.05431		mg/L		109	60 - 140	0	25
Bromodichloromethane	0.0500	0.05403		mg/L		108	75 - 125	1	25
Bromoform	0.0500	0.05459		mg/L		109	70 - 130	3	25
Bromomethane	0.0500	0.04731		mg/L		95	60 - 140	6	25
Tetrahydrofuran	0.100	0.09859		mg/L		99	75 - 125	7	25
Carbon tetrachloride	0.0500	0.04926		mg/L		99	70 - 125	2	25
Chlorobenzene	0.0500	0.05253		mg/L		105	82 - 135	2	25
Chloroethane	0.0500	0.05258		mg/L		105	60 - 140	1	25
Chloroform	0.0500	0.05322		mg/L		106	70 - 121	1	25
Chloromethane	0.0500	0.05070		mg/L		101	60 - 140	14	25
Vinyl acetate	0.250	0.2649		mg/L		106	60 - 140	1	25
Dibromochloromethane	0.0500	0.05469		mg/L		109	73 - 125	2	25
Dichlorodifluoromethane	0.0500	0.04517		mg/L		90	50 - 150	20	25
Ethylbenzene	0.0500	0.05304		mg/L		106	75 - 125	2	25
Hexachlorobutadiene	0.0500	0.06200		mg/L		124	75 - 125	13	25
n-Hexane	0.0500	0.04614		mg/L		92	72 - 125	22	25
MTBE	0.0500	0.04884		mg/L		98	65 - 135	3	25
Methylene Chloride	0.0500	0.04753		mg/L		95	71 - 125	1	25
Naphthalene	0.0500	0.06012		mg/L		120	70 - 130	10	25
t-Butyl alcohol	0.500	0.4365		mg/L		87	65 - 135	3	25
sec-Butylbenzene	0.0500	0.05313		mg/L		106	75 - 125	0	25
trans-1,4-Dichloro-2-butene	0.0500	0.05166		mg/L		103	70 - 130	1	25
Styrene	0.0500	0.05333		mg/L		107	75 - 125	3	25
Tetrachloroethene	0.0500	0.05412		mg/L		108	71 - 125	1	25
Toluene	0.0500	0.05255		mg/L		105	75 - 130	2	25
Trichloroethene	0.0500	0.05336		mg/L		107	75 - 135	4	25
Trichlorofluoromethane	0.0500	0.05043		mg/L		101	60 - 140	6	25
Allyl Chloride (3-Chloropropene)	0.0500	0.04441		mg/L		89	70 - 130	8	25
2-Chloro-1,3-butadiene	0.0500	0.05643		mg/L		113	70 - 130	1	25
Propane Nitrile (Propionitrile)	0.500	0.5183		mg/L		104	70 - 130	3	25
Methacrylonitrile	0.500	0.5258		mg/L		105	70 - 130	1	25
Methyl methacrylate	0.100	0.1085		mg/L		109	70 - 130	2	25
Ethyl ether	0.0500	0.05228	J	mg/L		105	70 - 130	0	25
Ethyl acetate	0.100	0.1030		mg/L		103	70 - 130	0	25

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-142954/5

Matrix: Water

Analysis Batch: 142954

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Nitropropane	0.100	0.1142		mg/L		114	75 - 125	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	100		75 - 131
Toluene-d8 (Surr)	100		80 - 120

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 860-143347/1-A

Matrix: Water

Analysis Batch: 143428

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 143347

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000100	U	0.000182	0.000100	mg/L		02/01/24 16:11	02/02/24 10:12	1
Acenaphthylene	<0.0000842	U	0.000182	0.0000842	mg/L		02/01/24 16:11	02/02/24 10:12	1
Anthracene	<0.0000900	U	0.000182	0.0000900	mg/L		02/01/24 16:11	02/02/24 10:12	1
Benzo[a]anthracene	<0.000134	U	0.000182	0.000134	mg/L		02/01/24 16:11	02/02/24 10:12	1
Benzo[a]pyrene	<0.0000571	U	0.000182	0.0000571	mg/L		02/01/24 16:11	02/02/24 10:12	1
Benzo[b]fluoranthene	<0.0000700	U	0.000182	0.0000700	mg/L		02/01/24 16:11	02/02/24 10:12	1
Benzo[g,h,i]perylene	<0.000113	U	0.000182	0.000113	mg/L		02/01/24 16:11	02/02/24 10:12	1
Benzo[k]fluoranthene	<0.000116	U	0.000182	0.000116	mg/L		02/01/24 16:11	02/02/24 10:12	1
Chrysene	<0.000156	U	0.000182	0.000156	mg/L		02/01/24 16:11	02/02/24 10:12	1
Dibenz(a,h)anthracene	<0.0000760	U	0.000182	0.0000760	mg/L		02/01/24 16:11	02/02/24 10:12	1
Fluoranthene	<0.000157	U	0.000182	0.000157	mg/L		02/01/24 16:11	02/02/24 10:12	1
Fluorene	<0.000101	U	0.000182	0.000101	mg/L		02/01/24 16:11	02/02/24 10:12	1
Indeno[1,2,3-cd]pyrene	<0.0000913	U	0.000182	0.0000913	mg/L		02/01/24 16:11	02/02/24 10:12	1
Naphthalene	<0.0000972	U	0.00364	0.0000972	mg/L		02/01/24 16:11	02/02/24 10:12	1
Phenanthrene	<0.0000850	U	0.000182	0.0000850	mg/L		02/01/24 16:11	02/02/24 10:12	1
Pyrene	<0.000130	U	0.000182	0.000130	mg/L		02/01/24 16:11	02/02/24 10:12	1
1-Methylnaphthalene	<0.0000795	U	0.000182	0.0000795	mg/L		02/01/24 16:11	02/02/24 10:12	1
2-Methylnaphthalene	<0.0000913	U	0.000182	0.0000913	mg/L		02/01/24 16:11	02/02/24 10:12	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	132		54 - 146	02/01/24 16:11	02/02/24 10:12	1
Nitrobenzene-d5 (Surr)	107		46 - 151	02/01/24 16:11	02/02/24 10:12	1
p-Terphenyl-d14 (Surr)	84		51 - 139	02/01/24 16:11	02/02/24 10:12	1

Lab Sample ID: LCS 860-143347/2-A

Matrix: Water

Analysis Batch: 143428

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0182	0.02355		mg/L		130	66 - 174
Acenaphthylene	0.0182	0.02444		mg/L		134	67 - 182
Anthracene	0.0182	0.02454		mg/L		135	55 - 191
Benzo[a]anthracene	0.0182	0.01623		mg/L		89	16 - 171

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 860-143347/2-A

Matrix: Water

Analysis Batch: 143428

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143347

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]pyrene	0.0182	0.01289		mg/L		71	10 - 165
Benzo[b]fluoranthene	0.0182	0.01508		mg/L		83	10 - 166
Benzo[g,h,i]perylene	0.0182	0.01308		mg/L		72	10 - 154
Benzo[k]fluoranthene	0.0182	0.01351		mg/L		74	10 - 178
Chrysene	0.0182	0.01407		mg/L		77	10 - 172
Dibenz(a,h)anthracene	0.0182	0.01500		mg/L		83	10 - 168
Fluoranthene	0.0182	0.02231		mg/L		123	52 - 185
Fluorene	0.0182	0.02525		mg/L		139	64 - 184
Indeno[1,2,3-cd]pyrene	0.0182	0.01466		mg/L		81	10 - 160
Naphthalene	0.0182	0.02274		mg/L		125	66 - 166
Phenanthrene	0.0182	0.02340		mg/L		129	66 - 184
Pyrene	0.0182	0.01964		mg/L		108	58 - 181
1-Methylnaphthalene	0.0182	0.02445		mg/L		134	64 - 167
2-Methylnaphthalene	0.0182	0.02456		mg/L		135	63 - 166

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	127		54 - 146
Nitrobenzene-d5 (Surr)	110		46 - 151
p-Terphenyl-d14 (Surr)	69		51 - 139

Lab Sample ID: LCSD 860-143347/3-A

Matrix: Water

Analysis Batch: 143428

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 143347

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.0182	0.02249		mg/L		124	66 - 174	5	40
Acenaphthylene	0.0182	0.02312		mg/L		127	67 - 182	6	40
Anthracene	0.0182	0.02267		mg/L		125	55 - 191	8	40
Benzo[a]anthracene	0.0182	0.01379		mg/L		76	16 - 171	16	50
Benzo[a]pyrene	0.0182	0.01080		mg/L		59	10 - 165	18	50
Benzo[b]fluoranthene	0.0182	0.01255		mg/L		69	10 - 166	18	50
Benzo[g,h,i]perylene	0.0182	0.01066		mg/L		59	10 - 154	20	50
Benzo[k]fluoranthene	0.0182	0.01145		mg/L		63	10 - 178	16	50
Chrysene	0.0182	0.01154		mg/L		63	10 - 172	20	50
Dibenz(a,h)anthracene	0.0182	0.01220		mg/L		67	10 - 168	21	50
Fluoranthene	0.0182	0.02057		mg/L		113	52 - 185	8	40
Fluorene	0.0182	0.02407		mg/L		132	64 - 184	5	40
Indeno[1,2,3-cd]pyrene	0.0182	0.01183		mg/L		65	10 - 160	21	50
Naphthalene	0.0182	0.02174		mg/L		120	66 - 166	5	40
Phenanthrene	0.0182	0.02190		mg/L		120	66 - 184	7	40
Pyrene	0.0182	0.01772		mg/L		97	58 - 181	10	40
1-Methylnaphthalene	0.0182	0.02389		mg/L		131	64 - 167	2	40
2-Methylnaphthalene	0.0182	0.02351		mg/L		129	63 - 166	4	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	116		54 - 146
Nitrobenzene-d5 (Surr)	102		46 - 151
p-Terphenyl-d14 (Surr)	58		51 - 139

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 860-143128/1-A

Matrix: Water

Analysis Batch: 143331

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 143128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.680	U	2.00	0.680	ug/L		01/31/24 16:54	02/01/24 17:40	1
1,2-Dichlorobenzene	<0.296	U	2.00	0.296	ug/L		01/31/24 16:54	02/01/24 17:40	1
1,3-Dichlorobenzene	<0.350	U	2.00	0.350	ug/L		01/31/24 16:54	02/01/24 17:40	1
1,4-Dichlorobenzene	<0.428	U	2.00	0.428	ug/L		01/31/24 16:54	02/01/24 17:40	1
2,4,5-Trichlorophenol	<0.108	U	2.00	0.108	ug/L		01/31/24 16:54	02/01/24 17:40	1
2,4,6-Trichlorophenol	<0.135	U	2.00	0.135	ug/L		01/31/24 16:54	02/01/24 17:40	1
2,4-Dichlorophenol	<0.115	U	2.00	0.115	ug/L		01/31/24 16:54	02/01/24 17:40	1
2,4-Dimethylphenol	<0.148	U	2.00	0.148	ug/L		01/31/24 16:54	02/01/24 17:40	1
2,4-Dinitrophenol	<1.46	U	8.00	1.46	ug/L		01/31/24 16:54	02/01/24 17:40	1
2,4-Dinitrotoluene	<0.127	U	2.00	0.127	ug/L		01/31/24 16:54	02/01/24 17:40	1
2,6-Dinitrotoluene	<0.199	U	2.00	0.199	ug/L		01/31/24 16:54	02/01/24 17:40	1
2-Chloronaphthalene	<1.09	U	8.00	1.09	ug/L		01/31/24 16:54	02/01/24 17:40	1
2-Methylnaphthalene	<0.480	U	2.00	0.480	ug/L		01/31/24 16:54	02/01/24 17:40	1
2-Methylphenol	<0.159	U	2.00	0.159	ug/L		01/31/24 16:54	02/01/24 17:40	1
2-Nitroaniline	<0.163	U	4.00	0.163	ug/L		01/31/24 16:54	02/01/24 17:40	1
2-Nitrophenol	<0.135	U	2.00	0.135	ug/L		01/31/24 16:54	02/01/24 17:40	1
3 & 4 Methylphenol	<0.163	U	2.00	0.163	ug/L		01/31/24 16:54	02/01/24 17:40	1
3-Nitroaniline	<0.344	U	2.00	0.344	ug/L		01/31/24 16:54	02/01/24 17:40	1
4,6-Dinitro-2-methylphenol	<0.736	U	8.00	0.736	ug/L		01/31/24 16:54	02/01/24 17:40	1
4-Bromophenyl-phenylether	<0.167	U	2.00	0.167	ug/L		01/31/24 16:54	02/01/24 17:40	1
4-Chloro-3-methylphenol	<0.157	U	2.00	0.157	ug/L		01/31/24 16:54	02/01/24 17:40	1
4-Chloroaniline	<0.149	U	4.00	0.149	ug/L		01/31/24 16:54	02/01/24 17:40	1
4-Chlorophenyl-phenylether	<0.232	U	2.00	0.232	ug/L		01/31/24 16:54	02/01/24 17:40	1
4-Nitroaniline	<0.247	U	4.00	0.247	ug/L		01/31/24 16:54	02/01/24 17:40	1
4-Nitrophenol	<0.531	U	4.00	0.531	ug/L		01/31/24 16:54	02/01/24 17:40	1
Acenaphthene	<0.208	U	2.00	0.208	ug/L		01/31/24 16:54	02/01/24 17:40	1
Acenaphthylene	<0.215	U	2.00	0.215	ug/L		01/31/24 16:54	02/01/24 17:40	1
Aniline (Phenylamine, Aminobenzene)	<0.314	U	4.00	0.314	ug/L		01/31/24 16:54	02/01/24 17:40	1
Anthracene	<0.154	U	2.00	0.154	ug/L		01/31/24 16:54	02/01/24 17:40	1
Benzo[a]anthracene	<0.150	U	2.00	0.150	ug/L		01/31/24 16:54	02/01/24 17:40	1
Benzo[a]pyrene	<0.148	U	2.00	0.148	ug/L		01/31/24 16:54	02/01/24 17:40	1
Benzo[b]fluoranthene	<0.210	U	2.00	0.210	ug/L		01/31/24 16:54	02/01/24 17:40	1
Benzo[g,h,i]perylene	<0.143	U	2.00	0.143	ug/L		01/31/24 16:54	02/01/24 17:40	1
Benzo[k]fluoranthene	<0.166	U	2.00	0.166	ug/L		01/31/24 16:54	02/01/24 17:40	1
Benzoic acid	<1.06	U	8.00	1.06	ug/L		01/31/24 16:54	02/01/24 17:40	1
Butyl benzyl phthalate	<0.150	U	2.00	0.150	ug/L		01/31/24 16:54	02/01/24 17:40	1
Bis(2-chloroethoxy)methane	<0.170	U	2.00	0.170	ug/L		01/31/24 16:54	02/01/24 17:40	1
Bis(2-chloroethyl)ether	<0.278	U	2.00	0.278	ug/L		01/31/24 16:54	02/01/24 17:40	1
bis(2-chloroisopropyl) ether	<0.139	U	2.00	0.139	ug/L		01/31/24 16:54	02/01/24 17:40	1
Bis(2-ethylhexyl) phthalate	<0.225	U	2.00	0.225	ug/L		01/31/24 16:54	02/01/24 17:40	1
Chrysene	<0.159	U	2.00	0.159	ug/L		01/31/24 16:54	02/01/24 17:40	1
Dibenz(a,h)anthracene	<0.148	U	2.00	0.148	ug/L		01/31/24 16:54	02/01/24 17:40	1
Dibenzofuran	<0.336	U	2.00	0.336	ug/L		01/31/24 16:54	02/01/24 17:40	1
Diethyl phthalate	<0.118	U	2.00	0.118	ug/L		01/31/24 16:54	02/01/24 17:40	1
Dimethyl phthalate	<0.143	U	2.00	0.143	ug/L		01/31/24 16:54	02/01/24 17:40	1
Di-n-butyl phthalate	<0.800	U	2.00	0.800	ug/L		01/31/24 16:54	02/01/24 17:40	1
Di-n-octyl phthalate	<0.169	U	2.00	0.169	ug/L		01/31/24 16:54	02/01/24 17:40	1
Fluoranthene	<0.148	U	2.00	0.148	ug/L		01/31/24 16:54	02/01/24 17:40	1

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 860-143128/1-A

Matrix: Water

Analysis Batch: 143331

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 143128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<0.205	U	2.00	0.205	ug/L		01/31/24 16:54	02/01/24 17:40	1
Hexachlorobenzene	<0.126	U	2.00	0.126	ug/L		01/31/24 16:54	02/01/24 17:40	1
Hexachlorobutadiene	<0.252	U	2.00	0.252	ug/L		01/31/24 16:54	02/01/24 17:40	1
Hexachlorocyclopentadiene	<0.431	U	2.00	0.431	ug/L		01/31/24 16:54	02/01/24 17:40	1
Hexachloroethane	<0.140	U	2.00	0.140	ug/L		01/31/24 16:54	02/01/24 17:40	1
Indeno[1,2,3-cd]pyrene	<0.852	U	2.00	0.852	ug/L		01/31/24 16:54	02/01/24 17:40	1
Isophorone	<0.168	U	2.00	0.168	ug/L		01/31/24 16:54	02/01/24 17:40	1
Naphthalene	<0.423	U	2.00	0.423	ug/L		01/31/24 16:54	02/01/24 17:40	1
Nitrobenzene	<0.934	U	2.00	0.934	ug/L		01/31/24 16:54	02/01/24 17:40	1
N-Nitrosodi-n-propylamine	<0.161	U	2.00	0.161	ug/L		01/31/24 16:54	02/01/24 17:40	1
N-Nitrosodiphenylamine	<0.155	U	2.00	0.155	ug/L		01/31/24 16:54	02/01/24 17:40	1
Pentachlorophenol	<0.441	U	2.00	0.441	ug/L		01/31/24 16:54	02/01/24 17:40	1
Phenanthrene	<0.176	U	2.00	0.176	ug/L		01/31/24 16:54	02/01/24 17:40	1
Phenol	<0.202	U	4.00	0.202	ug/L		01/31/24 16:54	02/01/24 17:40	1
Pyrene	<0.159	U	2.00	0.159	ug/L		01/31/24 16:54	02/01/24 17:40	1
Pyridine	<0.725	U	2.00	0.725	ug/L		01/31/24 16:54	02/01/24 17:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	46		31 - 132	01/31/24 16:54	02/01/24 17:40	1
2-Fluorobiphenyl (Surr)	60		40 - 130	01/31/24 16:54	02/01/24 17:40	1
2-Fluorophenol (Surr)	36		21 - 114	01/31/24 16:54	02/01/24 17:40	1
Nitrobenzene-d5 (Surr)	55		37 - 130	01/31/24 16:54	02/01/24 17:40	1
p-Terphenyl-d14 (Surr)	87		20 - 141	01/31/24 16:54	02/01/24 17:40	1
Phenol-d5 (Surr)	26		16 - 117	01/31/24 16:54	02/01/24 17:40	1

Lab Sample ID: LCS 860-143128/2-A

Matrix: Water

Analysis Batch: 143331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2,4-Trichlorobenzene	20.0	12.83		ug/L		64	34 - 117
1,2-Dichlorobenzene	20.0	13.35		ug/L		67	38 - 111
1,3-Dichlorobenzene	20.0	13.02		ug/L		65	37 - 111
1,4-Dichlorobenzene	20.0	13.41		ug/L		67	37 - 111
2,4,5-Trichlorophenol	20.0	13.16		ug/L		66	39 - 125
2,4,6-Trichlorophenol	20.0	13.24		ug/L		66	42 - 125
2,4-Dichlorophenol	20.0	12.74		ug/L		64	38 - 120
2,4-Dimethylphenol	20.0	13.69		ug/L		68	39 - 117
2,4-Dinitrophenol	20.0	11.97		ug/L		60	13 - 152
2,4-Dinitrotoluene	20.0	15.81		ug/L		79	41 - 128
2,6-Dinitrotoluene	20.0	14.78		ug/L		74	42 - 127
2-Chloronaphthalene	20.0	12.44		ug/L		62	40 - 118
2-Methylnaphthalene	20.0	13.79		ug/L		69	37 - 112
2-Methylphenol	20.0	12.20		ug/L		61	36 - 125
2-Nitroaniline	20.0	11.20		ug/L		56	34 - 126
2-Nitrophenol	20.0	13.65		ug/L		68	38 - 125
3 & 4 Methylphenol	20.0	10.99		ug/L		55	35 - 116
3-Nitroaniline	20.0	14.24		ug/L		71	42 - 123

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-143128/2-A

Matrix: Water

Analysis Batch: 143331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,6-Dinitro-2-methylphenol	20.0	15.87		ug/L		79	12 - 157
4-Bromophenyl-phenylether	20.0	14.81		ug/L		74	40 - 126
4-Chloro-3-methylphenol	20.0	12.83		ug/L		64	40 - 119
4-Chloroaniline	20.0	11.43		ug/L		57	39 - 111
4-Chlorophenyl-phenylether	20.0	13.62		ug/L		68	40 - 122
4-Nitroaniline	20.0	18.00		ug/L		90	42 - 125
4-Nitrophenol	20.0	10.71		ug/L		54	14 - 102
Acenaphthene	20.0	13.38		ug/L		67	41 - 116
Acenaphthylene	20.0	13.85		ug/L		69	41 - 118
Aniline (Phenylamine, Aminobenzene)	20.0	7.552		ug/L		38	31 - 100
Anthracene	20.0	14.55		ug/L		73	39 - 127
Benzo[a]anthracene	20.0	19.39		ug/L		97	40 - 129
Benzo[a]pyrene	20.0	20.88		ug/L		104	36 - 141
Benzo[b]fluoranthene	20.0	20.02		ug/L		100	34 - 139
Benzo[g,h,i]perylene	20.0	22.92		ug/L		115	32 - 141
Benzo[k]fluoranthene	20.0	19.12		ug/L		96	31 - 139
Benzoic acid	60.0	18.44		ug/L		31	27 - 195
Butyl benzyl phthalate	20.0	19.50		ug/L		97	44 - 133
Bis(2-chloroethoxy)methane	20.0	14.00		ug/L		70	36 - 113
Bis(2-chloroethyl)ether	20.0	13.77		ug/L		69	38 - 111
bis(2-chloroisopropyl) ether	20.0	13.17		ug/L		66	10 - 150
Bis(2-ethylhexyl) phthalate	20.0	17.65		ug/L		88	44 - 136
Chrysene	20.0	19.41		ug/L		97	41 - 124
Dibenz(a,h)anthracene	20.0	22.43		ug/L		112	35 - 143
Dibenzofuran	20.0	13.74		ug/L		69	41 - 119
Diethyl phthalate	20.0	15.94		ug/L		80	41 - 125
Dimethyl phthalate	20.0	14.71		ug/L		74	42 - 123
Di-n-butyl phthalate	20.0	20.79		ug/L		104	41 - 133
Di-n-octyl phthalate	20.0	16.67		ug/L		83	34 - 145
Fluoranthene	20.0	22.10		ug/L		111	38 - 132
Fluorene	20.0	14.00		ug/L		70	41 - 121
Hexachlorobenzene	20.0	15.38		ug/L		77	39 - 128
Hexachlorobutadiene	20.0	12.68		ug/L		63	31 - 120
Hexachlorocyclopentadiene	20.0	15.61		ug/L		78	15 - 117
Hexachloroethane	20.0	13.29		ug/L		66	37 - 109
Indeno[1,2,3-cd]pyrene	20.0	22.68		ug/L		113	35 - 141
Isophorone	20.0	14.04		ug/L		70	40 - 115
Naphthalene	20.0	13.51		ug/L		68	37 - 113
Nitrobenzene	20.0	13.14		ug/L		66	37 - 114
N-Nitrosodi-n-propylamine	20.0	14.08		ug/L		70	38 - 117
N-Nitrosodiphenylamine	20.0	13.44		ug/L		67	40 - 127
Pentachlorophenol	20.0	13.45		ug/L		67	10 - 137
Phenanthrene	20.0	14.29		ug/L		71	39 - 126
Phenol	20.0	7.359		ug/L		37	15 - 106
Pyrene	20.0	17.19		ug/L		86	40 - 130
Pyridine	20.0	3.984		ug/L		20	16 - 135

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 860-143128/2-A

Matrix: Water

Analysis Batch: 143331

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	70		31 - 132
2-Fluorobiphenyl (Surr)	65		40 - 130
2-Fluorophenol (Surr)	43		21 - 114
Nitrobenzene-d5 (Surr)	68		37 - 130
p-Terphenyl-d14 (Surr)	103		20 - 141
Phenol-d5 (Surr)	34		16 - 117

Lab Sample ID: LCSD 860-143128/3-A

Matrix: Water

Analysis Batch: 143331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 143128

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	20.0	15.91		ug/L		80	34 - 117	21	30
1,2-Dichlorobenzene	20.0	15.51		ug/L		78	38 - 111	15	30
1,3-Dichlorobenzene	20.0	15.15		ug/L		76	37 - 111	15	30
1,4-Dichlorobenzene	20.0	15.25		ug/L		76	37 - 111	13	30
2,4,5-Trichlorophenol	20.0	19.26	*1	ug/L		96	39 - 125	38	30
2,4,6-Trichlorophenol	20.0	18.69	*1	ug/L		93	42 - 125	34	30
2,4-Dichlorophenol	20.0	16.54		ug/L		83	38 - 120	26	30
2,4-Dimethylphenol	20.0	16.63		ug/L		83	39 - 117	19	30
2,4-Dinitrophenol	20.0	15.32		ug/L		77	13 - 152	24	30
2,4-Dinitrotoluene	20.0	19.75		ug/L		99	41 - 128	22	30
2,6-Dinitrotoluene	20.0	21.01	*1	ug/L		105	42 - 127	35	30
2-Chloronaphthalene	20.0	16.10		ug/L		80	40 - 118	26	30
2-Methylnaphthalene	20.0	17.11		ug/L		86	37 - 112	21	30
2-Methylphenol	20.0	15.61		ug/L		78	36 - 125	25	30
2-Nitroaniline	20.0	18.34	*1	ug/L		92	34 - 126	48	30
2-Nitrophenol	20.0	16.61		ug/L		83	38 - 125	20	30
3 & 4 Methylphenol	20.0	14.14		ug/L		71	35 - 116	25	30
3-Nitroaniline	20.0	18.90		ug/L		94	42 - 123	28	30
4,6-Dinitro-2-methylphenol	20.0	18.37		ug/L		92	12 - 157	15	30
4-Bromophenyl-phenylether	20.0	17.03		ug/L		85	40 - 126	14	30
4-Chloro-3-methylphenol	20.0	15.96		ug/L		80	40 - 119	22	30
4-Chloroaniline	20.0	14.28		ug/L		71	39 - 111	22	30
4-Chlorophenyl-phenylether	20.0	16.27		ug/L		81	40 - 122	18	30
4-Nitroaniline	20.0	18.98		ug/L		95	42 - 125	5	30
4-Nitrophenol	20.0	11.93		ug/L		60	14 - 102	11	30
Acenaphthene	20.0	15.70		ug/L		79	41 - 116	16	30
Acenaphthylene	20.0	17.93		ug/L		90	41 - 118	26	30
Aniline (Phenylamine, Aminobenzene)	20.0	11.11	*1	ug/L		56	31 - 100	38	30
Anthracene	20.0	18.40		ug/L		92	39 - 127	23	30
Benzo[a]anthracene	20.0	18.53		ug/L		93	40 - 129	5	30
Benzo[a]pyrene	20.0	20.05		ug/L		100	36 - 141	4	30
Benzo[b]fluoranthene	20.0	18.99		ug/L		95	34 - 139	5	30
Benzo[g,h,i]perylene	20.0	22.73		ug/L		114	32 - 141	1	30
Benzo[k]fluoranthene	20.0	18.56		ug/L		93	31 - 139	3	30
Benzoic acid	60.0	25.67	*1	ug/L		43	27 - 195	33	30
Butyl benzyl phthalate	20.0	19.39		ug/L		97	44 - 133	1	30

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8270E LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCSD 860-143128/3-A

Matrix: Water

Analysis Batch: 143331

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 143128

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	20.0	16.58		ug/L		83	36 - 113	17	30
Bis(2-chloroethyl)ether	20.0	16.40		ug/L		82	38 - 111	17	30
bis(2-chloroisopropyl) ether	20.0	16.12		ug/L		81	10 - 150	20	30
Bis(2-ethylhexyl) phthalate	20.0	17.16		ug/L		86	44 - 136	3	30
Chrysene	20.0	17.87		ug/L		89	41 - 124	8	30
Dibenz(a,h)anthracene	20.0	20.94		ug/L		105	35 - 143	7	30
Dibenzofuran	20.0	15.93		ug/L		80	41 - 119	15	30
Diethyl phthalate	20.0	18.71		ug/L		94	41 - 125	16	30
Dimethyl phthalate	20.0	19.70		ug/L		99	42 - 123	29	30
Di-n-butyl phthalate	20.0	21.35		ug/L		107	41 - 133	3	30
Di-n-octyl phthalate	20.0	16.55		ug/L		83	34 - 145	1	30
Fluoranthene	20.0	20.62		ug/L		103	38 - 132	7	30
Fluorene	20.0	16.83		ug/L		84	41 - 121	18	30
Hexachlorobenzene	20.0	16.90		ug/L		85	39 - 128	9	30
Hexachlorobutadiene	20.0	15.60		ug/L		78	31 - 120	21	30
Hexachlorocyclopentadiene	20.0	20.79		ug/L		104	15 - 117	28	30
Hexachloroethane	20.0	16.06		ug/L		80	37 - 109	19	30
Indeno[1,2,3-cd]pyrene	20.0	20.80		ug/L		104	35 - 141	9	30
Isophorone	20.0	17.30		ug/L		87	40 - 115	21	30
Naphthalene	20.0	16.13		ug/L		81	37 - 113	18	30
Nitrobenzene	20.0	14.96		ug/L		75	37 - 114	13	30
N-Nitrosodi-n-propylamine	20.0	17.51		ug/L		88	38 - 117	22	30
N-Nitrosodiphenylamine	20.0	17.50		ug/L		88	40 - 127	26	30
Pentachlorophenol	20.0	15.83		ug/L		79	10 - 137	16	30
Phenanthrene	20.0	17.26		ug/L		86	39 - 126	19	30
Phenol	20.0	9.206		ug/L		46	15 - 106	22	30
Pyrene	20.0	17.24		ug/L		86	40 - 130	0	30
Pyridine	20.0	5.676	*1	ug/L		28	16 - 135	35	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	87		31 - 132
2-Fluorobiphenyl (Surr)	85		40 - 130
2-Fluorophenol (Surr)	54		21 - 114
Nitrobenzene-d5 (Surr)	74		37 - 130
p-Terphenyl-d14 (Surr)	97		20 - 141
Phenol-d5 (Surr)	43		16 - 117

Method: Organotins SIM - Organotins (GC/MS SIM)

Lab Sample ID: MB 570-405719/1-A

Matrix: Water

Analysis Batch: 406749

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 405719

Analysis Date: 10/1/15							Prep Date: 10/1/15		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyltin	<1.14	U	3.00	1.14	ng/L		01/30/24 08:24	02/01/24 12:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits						
Triphenyltin	95		10 - 120						
				01/30/24 08:24 02/01/24 12:39 1					

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: Organotins SIM - Organotins (GC/MS SIM) (Continued)

Lab Sample ID: LCS 570-405719/2-A

Matrix: Water

Analysis Batch: 406749

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 405719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Tributyltin	178	195.3		ng/L		110	10 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Tripentyltin	100		10 - 120				

Lab Sample ID: LCSD 570-405719/3-A

Matrix: Water

Analysis Batch: 406749

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 405719

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tributyltin			178	162.3		ng/L		91	10 - 120	18	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits								
Tripentyltin	86		10 - 120								

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-142559/1-A

Matrix: Water

Analysis Batch: 142550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 142559

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Gasoline Range Organics (GRO)-C6-C10	<0.988	U	5.00	0.988	mg/L		01/29/24 07:37	01/29/24 11:12	1
Diesel Range Organics (Over C10-C28)	<0.988	U	5.00	0.988	mg/L		01/29/24 07:37	01/29/24 11:12	1
Oil Range Organics (Over C28-C36)	<0.954	U	5.00	0.954	mg/L		01/29/24 07:37	01/29/24 11:12	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
%Recovery	Qualifier								
1-Chlorooctane	97		70 - 135				01/29/24 07:37	01/29/24 11:12	1
o-Terphenyl	96		70 - 135				01/29/24 07:37	01/29/24 11:12	1

Lab Sample ID: LCS 860-142559/2-A

Matrix: Water

Analysis Batch: 142550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 142559

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec		
			Added	Result	Qualifier			Limits			
Gasoline Range Organics (GRO)-C6-C10			100	90.06		mg/L		90	70 - 135		
Diesel Range Organics (Over C10-C28)			100	104.9		mg/L		105	70 - 135		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
1-Chlorooctane	107		70 - 135								
o-Terphenyl	103		70 - 135								

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 860-142559/3-A

Matrix: Water

Analysis Batch: 142550

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 142559

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	100	97.58		mg/L		98	70 - 135	8	35
Diesel Range Organics (Over C10-C28)	100	108.0		mg/L		108	70 - 135	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 135
o-Terphenyl	101		70 - 135

Method: 8081B_LL - Organochlorine Pesticides (GC)

Lab Sample ID: MB 860-143280/1-A

Matrix: Water

Analysis Batch: 143426

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 143280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.00000012 3	U	0.0000100	0.0000001 23	mg/L		02/01/24 12:24	02/02/24 10:35	1
4,4'-DDE	<0.00000013 1	U	0.0000100	0.0000001 31	mg/L		02/01/24 12:24	02/02/24 10:35	1
4,4'-DDT	<0.00000069 5	U	0.0000200	0.0000006 95	mg/L		02/01/24 12:24	02/02/24 10:35	1
Aldrin	<0.00000013 7	U	0.0000100	0.0000001 37	mg/L		02/01/24 12:24	02/02/24 10:35	1
alpha-BHC	<0.00000014 3	U	0.0000090 0	0.0000001 43	mg/L		02/01/24 12:24	02/02/24 10:35	1
alpha-Chlordane	<0.00000023 7	U	0.0000100	0.0000002 37	mg/L		02/01/24 12:24	02/02/24 10:35	1
beta-BHC	<0.00000190	U	0.0000180	0.0000019 0	mg/L		02/01/24 12:24	02/02/24 10:35	1
Chlorodane	<0.00000851	U	0.000250	0.0000085 1	mg/L		02/01/24 12:24	02/02/24 10:35	1
delta-BHC	<0.00000038 7	U	0.000250	0.0000003 87	mg/L		02/01/24 12:24	02/02/24 10:35	1
Dieldrin	<0.00000008 06	U	0.0000100	0.0000000 806	mg/L		02/01/24 12:24	02/02/24 10:35	1
Endosulfan I	<0.00000014 6	U	0.0000100	0.0000001 46	mg/L		02/01/24 12:24	02/02/24 10:35	1
Endosulfan II	<0.00000008 19	U	0.0000100	0.0000000 819	mg/L		02/01/24 12:24	02/02/24 10:35	1
Endosulfan sulfate	<0.00000031 2	U	0.0000100	0.0000003 12	mg/L		02/01/24 12:24	02/02/24 10:35	1
Endrin	<0.00000016 8	U	0.0000100	0.0000001 68	mg/L		02/01/24 12:24	02/02/24 10:35	1
Endrin aldehyde	<0.00000038 4	U	0.0000100	0.0000003 84	mg/L		02/01/24 12:24	02/02/24 10:35	1
Endrin ketone	<0.00000040 5	U	0.0000100	0.0000004 05	mg/L		02/01/24 12:24	02/02/24 10:35	1
gamma-BHC (Lindane)	<0.00000060 0	U	0.0000100	0.0000006 00	mg/L		02/01/24 12:24	02/02/24 10:35	1
Heptachlor	<0.00000109	U	0.0000090 0	0.0000010 9	mg/L		02/01/24 12:24	02/02/24 10:35	1
Heptachlor epoxide	<0.00000008 71	U	0.0000100	0.0000000 871	mg/L		02/01/24 12:24	02/02/24 10:35	1

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8081B_LL - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 860-143280/1-A

Matrix: Water

Analysis Batch: 143426

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 143280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	<0.00000056	U	0.0000200	0.0000005	mg/L		02/01/24 12:24	02/02/24 10:35	1
	6			66					
Toxaphene	<0.0000196	U	0.000200	0.0000196	mg/L		02/01/24 12:24	02/02/24 10:35	1
trans-Chlordane	<0.00000059	U	0.0000100	0.0000005	mg/L		02/01/24 12:24	02/02/24 10:35	1
	9			99					
Mirex	<0.0000200	U	0.0000200	0.0000200	mg/L		02/01/24 12:24	02/02/24 10:35	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	143	S1+	15 - 136				02/01/24 12:24	02/02/24 10:35	1
Tetrachloro-m-xylene	89		18 - 126				02/01/24 12:24	02/02/24 10:35	1

Lab Sample ID: LCS 860-143280/2-A

Matrix: Water

Analysis Batch: 143426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	0.000100	0.0001294		mg/L		129	45 - 130
4,4'-DDE	0.000100	0.0001076		mg/L		108	44 - 133
4,4'-DDT	0.000100	0.0001272		mg/L		127	46 - 150
Aldrin	0.000100	0.00009059		mg/L		91	40 - 120
alpha-BHC	0.000100	0.00009424		mg/L		94	46 - 115
alpha-Chlordane	0.000100	0.0001071		mg/L		107	47 - 127
beta-BHC	0.000100	0.0001003		mg/L		100	45 - 127
delta-BHC	0.000100	0.00004738	J	mg/L		47	16 - 130
Dieldrin	0.000100	0.00009350		mg/L		93	46 - 127
Endosulfan I	0.000100	0.0001108		mg/L		111	44 - 125
Endosulfan II	0.000100	0.0001174		mg/L		117	47 - 132
Endosulfan sulfate	0.000100	0.0001027		mg/L		103	48 - 134
Endrin	0.000100	0.0001086		mg/L		109	48 - 145
Endrin aldehyde	0.000100	0.0001294	*+	mg/L		129	22 - 121
Endrin ketone	0.000100	0.0001316		mg/L		132	41 - 153
gamma-BHC (Lindane)	0.000100	0.0001008		mg/L		101	50 - 118
Heptachlor	0.000100	0.0001151		mg/L		115	43 - 138
Heptachlor epoxide	0.000100	0.0001096		mg/L		110	46 - 123
Methoxychlor	0.000100	0.0001352		mg/L		135	49 - 152
trans-Chlordane	0.000100	0.0001032		mg/L		103	45 - 128
Surrogate	%Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl (Surr)	140	S1+	15 - 136				
Tetrachloro-m-xylene	95		18 - 126				

Lab Sample ID: LCSD 860-143280/3-A

Matrix: Water

Analysis Batch: 143426

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 143280

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
4,4'-DDD	0.000100	0.0001435	*+	mg/L		143	45 - 130	10	25
4,4'-DDE	0.000100	0.0001204		mg/L		120	44 - 133	11	25
4,4'-DDT	0.000100	0.0001353		mg/L		135	46 - 150	6	25

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8081B_LL - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 860-143280/3-A

Matrix: Water

Analysis Batch: 143426

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 143280

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.000100	0.0001022		mg/L		102	40 - 120	12	25
alpha-BHC	0.000100	0.0001068		mg/L		107	46 - 115	12	25
alpha-Chlordane	0.000100	0.0001212		mg/L		121	47 - 127	12	25
beta-BHC	0.000100	0.0001188		mg/L		119	45 - 127	17	25
delta-BHC	0.000100	0.00005583	J	mg/L		56	16 - 130	16	25
Dieldrin	0.000100	0.0001060		mg/L		106	46 - 127	12	25
Endosulfan I	0.000100	0.0001247		mg/L		125	44 - 125	12	25
Endosulfan II	0.000100	0.0001306		mg/L		131	47 - 132	11	25
Endosulfan sulfate	0.000100	0.0001114		mg/L		111	48 - 134	8	25
Endrin	0.000100	0.0001181		mg/L		118	48 - 145	8	25
Endrin aldehyde	0.000100	0.0001438	*+	mg/L		144	22 - 121	11	25
Endrin ketone	0.000100	0.0001428		mg/L		143	41 - 153	8	25
gamma-BHC (Lindane)	0.000100	0.0001180		mg/L		118	50 - 118	16	25
Heptachlor	0.000100	0.0001295		mg/L		130	43 - 138	12	25
Heptachlor epoxide	0.000100	0.0001230		mg/L		123	46 - 123	12	25
Methoxychlor	0.000100	0.0001446		mg/L		145	49 - 152	7	25
trans-Chlordane	0.000100	0.0001171		mg/L		117	45 - 128	13	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	143	S1+	15 - 136
Tetrachloro-m-xylene	102		18 - 126

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 860-143280/1-A

Matrix: Water

Analysis Batch: 143420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 143280

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0000125	U	0.000200	0.0000125	mg/L		02/01/24 12:24	02/02/24 10:27	1
PCB-1221	<0.0000125	U	0.000200	0.0000125	mg/L		02/01/24 12:24	02/02/24 10:27	1
PCB-1232	<0.0000125	U	0.000200	0.0000125	mg/L		02/01/24 12:24	02/02/24 10:27	1
PCB-1242	<0.0000125	U	0.000200	0.0000125	mg/L		02/01/24 12:24	02/02/24 10:27	1
PCB-1248	<0.0000125	U	0.000200	0.0000125	mg/L		02/01/24 12:24	02/02/24 10:27	1
PCB-1254	<0.00000780	U	0.000200	0.0000078	mg/L		02/01/24 12:24	02/02/24 10:27	1
PCB-1260	<0.00000780	U	0.000200	0.0000078	mg/L		02/01/24 12:24	02/02/24 10:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	115		18 - 116	02/01/24 12:24	02/02/24 10:27	1
DCB Decachlorobiphenyl (Surr)	146	S1+	27 - 123	02/01/24 12:24	02/02/24 10:27	1

Lab Sample ID: LCS 860-143280/13-A

Matrix: Water

Analysis Batch: 143420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.00100	0.001027		mg/L		103	54 - 125

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 860-143280/13-A

Matrix: Water

Analysis Batch: 143420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143280

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1260	0.00100	0.001133		mg/L		113	41 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	122	S1+	18 - 116
DCB Decachlorobiphenyl (Surr)	149	S1+	27 - 123

Lab Sample ID: LCSD 860-143280/14-A

Matrix: Water

Analysis Batch: 143420

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 143280

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
PCB-1016	0.00100	0.001045		mg/L		104	54 - 125	2	20
PCB-1260	0.00100	0.001142		mg/L		114	41 - 126	1	

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	121	S1+	18 - 116
DCB Decachlorobiphenyl (Surr)	140	S1+	27 - 123

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 860-142589/1-A

Matrix: Water

Analysis Batch: 142760

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 142589

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.0000401	U	0.000200	0.0000401	mg/L		01/29/24 09:51	01/30/24 12:26	1
MCPP	<0.00187	U	0.0200	0.00187	mg/L		01/29/24 09:51	01/30/24 12:26	1
MCPA	0.01960	J	0.0200	0.00116	mg/L		01/29/24 09:51	01/30/24 12:26	1
Dinoseb	<0.0000321	U	0.000200	0.0000321	mg/L		01/29/24 09:51	01/30/24 12:26	1
Dichlorprop	<0.0000441	U	0.000200	0.0000441	mg/L		01/29/24 09:51	01/30/24 12:26	1
Dicamba	<0.0000521	U	0.000200	0.0000521	mg/L		01/29/24 09:51	01/30/24 12:26	1
Dalapon	<0.0000741	U	0.000200	0.0000741	mg/L		01/29/24 09:51	01/30/24 12:26	1
2,4-DB	<0.0000551	U	0.000200	0.0000551	mg/L		01/29/24 09:51	01/30/24 12:26	1
2,4-D	<0.000155	U	0.000200	0.000155	mg/L		01/29/24 09:51	01/30/24 12:26	1
2,4,5-TP (Silvex)	<0.0000401	U	0.000200	0.0000401	mg/L		01/29/24 09:51	01/30/24 12:26	1
2,4,5-T	<0.0000511	U	0.000200	0.0000511	mg/L		01/29/24 09:51	01/30/24 12:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	77		42 - 150	01/29/24 09:51	01/30/24 12:26	1

Lab Sample ID: LCS 860-142589/2-A

Matrix: Water

Analysis Batch: 142760

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 142589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Pentachlorophenol	0.00201	0.001336		mg/L		67	48 - 134
MCPP	0.201	0.1868		mg/L		93	45 - 132
MCPA	0.201	0.2017		mg/L		100	42 - 129

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: LCS 860-142589/2-A

Matrix: Water

Analysis Batch: 142760

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 142589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dinoseb	0.00201	0.0003657	*	mg/L		18	20 - 128
Dichlorprop	0.00201	0.001611		mg/L		80	45 - 125
Dicamba	0.00201	0.001670		mg/L		83	48 - 134
Dalapon	0.00201	0.001350		mg/L		67	48 - 134
2,4-DB	0.00201	0.001604		mg/L		80	48 - 148
2,4-D	0.00201	0.001563		mg/L		78	45 - 124
2,4,5-TP (Silvex)	0.00201	0.001797		mg/L		90	45 - 124
2,4,5-T	0.00201	0.001680		mg/L		84	40 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	90		42 - 150

Lab Sample ID: LCSD 860-142589/3-A

Matrix: Water

Analysis Batch: 142760

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 142589

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Pentachlorophenol	0.00204	0.001390		mg/L		68	48 - 134	4	25
MCPP	0.204	0.2082		mg/L		102	45 - 132	11	25
MCPA	0.204	0.1936		mg/L		95	42 - 129	4	25
Dinoseb	0.00204	0.0001044	J * - *1	mg/L		5	20 - 128	111	25
Dichlorprop	0.00204	0.001697		mg/L		83	45 - 125	5	25
Dicamba	0.00204	0.001750		mg/L		86	48 - 134	5	25
Dalapon	0.00204	0.001425		mg/L		70	48 - 134	5	25
2,4-DB	0.00204	0.001608		mg/L		79	48 - 148	0	25
2,4-D	0.00204	0.001660		mg/L		81	45 - 124	6	25
2,4,5-TP (Silvex)	0.00204	0.001860		mg/L		91	45 - 124	3	25
2,4,5-T	0.00204	0.001741		mg/L		85	40 - 134	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	93		42 - 150

Method: EPA 8141B - Organophosphorous Pesticides (GC)

Lab Sample ID: MB 180-458082/1-A

Matrix: Water

Analysis Batch: 458212

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 458082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Guthion	<0.0695	U	0.200	0.0695	ug/L		01/28/24 21:50	01/30/24 22:30	1
Demeton, Total	<0.0489	U	0.400	0.0489	ug/L		01/28/24 21:50	01/30/24 22:30	1
Chlorpyrifos	<0.0865	U	0.200	0.0865	ug/L		01/28/24 21:50	01/30/24 22:30	1
Malathion	<0.0794	U	0.200	0.0794	ug/L		01/28/24 21:50	01/30/24 22:30	1
Diazinon	<0.0782	U	0.200	0.0782	ug/L		01/28/24 21:50	01/30/24 22:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributyl phosphate	84		28 - 128	01/28/24 21:50	01/30/24 22:30	1
Triphenylphosphate	98		76 - 138	01/28/24 21:50	01/30/24 22:30	1

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: EPA 8141B - Organophosphorous Pesticides (GC)

Lab Sample ID: LCS 180-458082/2-A

Matrix: Water

Analysis Batch: 458212

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 458082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Guthion	2.00	1.608		ug/L		80	48 - 124
Demeton, Total	2.00	1.639		ug/L		82	30 - 170
Chlorpyrifos	2.00	1.641		ug/L		82	73 - 128
Malathion	2.00	1.650		ug/L		83	68 - 133
Diazinon	2.00	1.680		ug/L		84	74 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tributyl phosphate	112		28 - 128
Triphenylphosphate	99		76 - 138

Lab Sample ID: LCSD 180-458082/3-A

Matrix: Water

Analysis Batch: 458212

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 458082

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Guthion	2.00	1.898	*1	ug/L		95	48 - 124	17	15
Demeton, Total	2.00	1.875		ug/L		94	30 - 170	13	35
Chlorpyrifos	2.00	1.858		ug/L		93	73 - 128	12	24
Malathion	2.00	1.896		ug/L		95	68 - 133	14	34
Diazinon	2.00	1.913		ug/L		96	74 - 123	13	17

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tributyl phosphate	116		28 - 128
Triphenylphosphate	103		76 - 138

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-143493/3

Matrix: Water

Analysis Batch: 143493

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711	mg/L			02/02/24 12:34	1
Chloride	<0.250	U	0.500	0.250	mg/L			02/02/24 12:34	1
Fluoride	<0.100	U	0.500	0.100	mg/L			02/02/24 12:34	1
Sulfate	<0.200	U	0.500	0.200	mg/L			02/02/24 12:34	1

Lab Sample ID: LCS 860-143493/4

Matrix: Water

Analysis Batch: 143493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	10.0	9.944		mg/L		99	90 - 110
Chloride	10.0	9.644		mg/L		96	90 - 110
Fluoride	10.0	10.14		mg/L		101	90 - 110
Sulfate	10.0	10.10		mg/L		101	90 - 110

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-143493/5

Matrix: Water

Analysis Batch: 143493

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	10.0	9.885		mg/L		99	90 - 110	1	20
Chloride	10.0	9.636		mg/L		96	90 - 110	0	20
Fluoride	10.0	10.14		mg/L		101	90 - 110	0	20
Sulfate	10.0	10.06		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-143493/7

Matrix: Water

Analysis Batch: 143493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.500	0.4199	J	mg/L		84	50 - 150
Chloride	0.500	0.2792	J	mg/L		56	50 - 150
Fluoride	0.500	0.4764	J	mg/L		95	50 - 150
Sulfate	0.500	0.2751	J	mg/L		55	50 - 150

Lab Sample ID: MB 860-143494/3

Matrix: Water

Analysis Batch: 143494

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			02/02/24 12:34	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			02/02/24 12:34	1

Lab Sample ID: LCS 860-143494/4

Matrix: Water

Analysis Batch: 143494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.596		mg/L		96	80 - 120
Nitrite as N	10.0	9.443		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-143494/5

Matrix: Water

Analysis Batch: 143494

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	9.564		mg/L		96	80 - 120	0	20
Nitrite as N	10.0	9.398		mg/L		94	80 - 120	0	20

Lab Sample ID: MB 860-143834/13

Matrix: Water

Analysis Batch: 143834

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711	mg/L			02/05/24 18:35	1
Chloride	<0.250	U	0.500	0.250	mg/L			02/05/24 18:35	1
Fluoride	<0.100	U	0.500	0.100	mg/L			02/05/24 18:35	1
Sulfate	<0.200	U	0.500	0.200	mg/L			02/05/24 18:35	1

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-143834/14

Matrix: Water

Analysis Batch: 143834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.00	4.758		mg/L		95	90 - 110
Chloride	5.00	4.853		mg/L		97	90 - 110
Fluoride	5.00	5.189		mg/L		104	90 - 110
Sulfate	5.00	5.072		mg/L		101	90 - 110

Lab Sample ID: LCSD 860-143834/15

Matrix: Water

Analysis Batch: 143834

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	5.00	4.729		mg/L		95	90 - 110	1	20
Chloride	5.00	4.862		mg/L		97	90 - 110	0	20
Fluoride	5.00	5.207		mg/L		104	90 - 110	0	20
Sulfate	5.00	5.060		mg/L		101	90 - 110	0	20

Lab Sample ID: LLCS 860-143834/17

Matrix: Water

Analysis Batch: 143834

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.500	0.4433	J	mg/L		89	50 - 150
Chloride	0.500	0.4719	J	mg/L		94	50 - 150
Fluoride	0.500	0.4207	J	mg/L		84	50 - 150
Sulfate	0.500	0.3727	J	mg/L		75	50 - 150

Lab Sample ID: MB 860-143835/13

Matrix: Water

Analysis Batch: 143835

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			02/05/24 18:35	1
Nitrite as N	<0.0293	U	0.100	0.0293	mg/L			02/05/24 18:35	1

Lab Sample ID: LCS 860-143835/14

Matrix: Water

Analysis Batch: 143835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.936		mg/L		99	80 - 120
Nitrite as N	5.00	5.014		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-143835/15

Matrix: Water

Analysis Batch: 143835

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.919		mg/L		98	80 - 120	0	20
Nitrite as N	5.00	5.015		mg/L		100	80 - 120	0	20

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-143835/16

Matrix: Water

Analysis Batch: 143835

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.09518	J	mg/L		95	50 - 150

Lab Sample ID: MB 860-144041/3

Matrix: Water

Analysis Batch: 144041

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.0711	U	0.500	0.0711	mg/L			02/06/24 13:53	1
Chloride	<0.250	U	0.500	0.250	mg/L			02/06/24 13:53	1
Fluoride	<0.100	U	0.500	0.100	mg/L			02/06/24 13:53	1
Sulfate	<0.200	U	0.500	0.200	mg/L			02/06/24 13:53	1

Lab Sample ID: LCS 860-144041/4

Matrix: Water

Analysis Batch: 144041

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	5.00	4.818		mg/L		96	90 - 110
Chloride	5.00	4.824		mg/L		96	90 - 110
Fluoride	5.00	5.135		mg/L		103	90 - 110
Sulfate	5.00	5.106		mg/L		102	90 - 110

Lab Sample ID: LCSD 860-144041/5

Matrix: Water

Analysis Batch: 144041

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	5.00	4.830		mg/L		97	90 - 110	0	20
Chloride	5.00	4.837		mg/L		97	90 - 110	0	20
Fluoride	5.00	5.140		mg/L		103	90 - 110	0	20
Sulfate	5.00	5.110		mg/L		102	90 - 110	0	20

Lab Sample ID: LLCS 860-144041/33

Matrix: Water

Analysis Batch: 144041

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	0.500	0.4842	J	mg/L		97	50 - 150
Chloride	0.500	0.5014		mg/L		100	50 - 150
Fluoride	0.500	0.4476	J	mg/L		90	50 - 150
Sulfate	0.500	0.4267	J	mg/L		85	50 - 150

Lab Sample ID: MB 860-145833/43

Matrix: Water

Analysis Batch: 145833

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetate	<1.00	U	2.00	1.00	mg/L			02/19/24 00:13	1
Formate	<1.00	U	2.00	1.00	mg/L			02/19/24 00:13	1

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-145833/44

Matrix: Water

Analysis Batch: 145833

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetate	10.0	9.142		mg/L		91	70 - 130
Formate	10.0	9.795		mg/L		98	70 - 130

Lab Sample ID: LCSD 860-145833/45

Matrix: Water

Analysis Batch: 145833

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetate	10.0	9.126		mg/L		91	70 - 130	0	30
Formate	10.0	9.675		mg/L		97	70 - 130	1	30

Method: 632 - Carbamate and Urea Pesticides (HPLC)

Lab Sample ID: MB 860-142666/1-A

Matrix: Water

Analysis Batch: 146224

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 142666

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbaryl	<1.85	U	5.00	1.85	ug/L		01/29/24 15:49	02/21/24 00:34	1

Lab Sample ID: LCS 860-142666/2-A

Matrix: Water

Analysis Batch: 146224

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 142666

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbaryl	100	123.7		ug/L		124	70 - 130

Lab Sample ID: LCSD 860-142666/3-A

Matrix: Water

Analysis Batch: 146224

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 142666

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbaryl	100	123.3		ug/L		123	70 - 130	0	20

Method: 8015D VFA - Volatile Fatty Acids - Direct Aqueous Injection (HPLC)

Lab Sample ID: MB 410-468290/1-A

Matrix: Water

Analysis Batch: 468365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetic acid	<3200	U	10000	3200	ug/L		01/30/24 17:21	01/31/24 07:52	1
Butyric acid	<2000	U	10000	2000	ug/L		01/30/24 17:21	01/31/24 07:52	1
Citric Acid	<1000	U	5000	1000	ug/L		01/30/24 17:21	01/31/24 07:52	1
Formic-acid	<2000	U	10000	2000	ug/L		01/30/24 17:21	01/31/24 07:52	1
Isovaleric acid	<3500	U	7100	3500	ug/L		01/30/24 17:21	01/31/24 07:52	1
L-Lactic Acid	<1000	U	5000	1000	ug/L		01/30/24 17:21	01/31/24 07:52	1
Oxalic Acid	275.3	J	1250	250	ug/L		01/30/24 17:21	01/31/24 07:52	1
Pyruvic Acid	<250	U	1250	250	ug/L		01/30/24 17:21	01/31/24 07:52	1
Quinic Acid	<2400	U	5000	2400	ug/L		01/30/24 17:21	01/31/24 07:52	1

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8015D VFA - Volatile Fatty Acids - Direct Aqueous Injection (HPLC) (Continued)

Lab Sample ID: MB 410-468290/1-A

Matrix: Water

Analysis Batch: 468365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Succinic Acid	<1000	U	2500	1000	ug/L		01/30/24 17:21	01/31/24 07:52	1
Tartaric Acid	<1000	U	2500	1000	ug/L		01/30/24 17:21	01/31/24 07:52	1
Valeric acid	<2000	U	5000	2000	ug/L		01/30/24 17:21	01/31/24 07:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Fumaric Acid	83		68 - 139				01/30/24 17:21	01/31/24 07:52	1

Lab Sample ID: MB 410-468290/1-A

Matrix: Water

Analysis Batch: 468367

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionic acid	<2000	U	10000	2000	ug/L		01/30/24 17:21	01/31/24 10:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Fumaric Acid	107		68 - 139				01/30/24 17:21	01/31/24 10:18	1

Lab Sample ID: LCS 410-468290/4-A

Matrix: Water

Analysis Batch: 468365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetic acid	101000	87180		ug/L		87	77 - 123
Butyric acid	100000	88970		ug/L		89	73 - 134
Citric Acid	50000	48560		ug/L		97	77 - 123
Formic-acid	100000	87180		ug/L		87	73 - 129
L-Lactic Acid	50400	42950		ug/L		85	71 - 115
Oxalic Acid	12600	9891		ug/L		78	59 - 138
Pyruvic Acid	12600	11570		ug/L		92	74 - 115
Quinic Acid	50400	45500		ug/L		90	85 - 115
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Fumaric Acid	90		68 - 139				

Lab Sample ID: LCS 410-468290/4-A

Matrix: Water

Analysis Batch: 468367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Propionic acid	101000	96310		ug/L		96	42 - 145
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Fumaric Acid	102		68 - 139				

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8015D VFA - Volatile Fatty Acids - Direct Aqueous Injection (HPLC) (Continued)

Lab Sample ID: LCSD 410-468290/3-A

Matrix: Water

Analysis Batch: 468365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 468290

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Isovaleric acid	100000	91030		ug/L		91	70 - 115	0	30
Succinic Acid	50000	44400		ug/L		89	65 - 142	0	30
Tartaric Acid	50000	45300		ug/L		91	75 - 115	0	30
Valeric acid	101000	92270		ug/L		92	57 - 126	0	30

Lab Sample ID: LCSD 410-468290/3-A

Matrix: Water

Analysis Batch: 468367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 468290

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Fumaric Acid	107		68 - 139

Method: 8330B - Nitroaromatics and Nitramines (HPLC)

Lab Sample ID: MB 410-468013/1-A

Matrix: Water

Analysis Batch: 471494

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HMX	<0.700	U	1.60	0.700	ug/L		01/30/24 10:37	02/07/24 23:30	1
RDX	<0.637	U	1.40	0.637	ug/L		01/30/24 10:37	02/07/24 23:30	1
1,3,5-Trinitrobenzene	<0.460	U	1.00	0.460	ug/L		01/30/24 10:37	02/07/24 23:30	1
Tetryl	<0.398	U	1.60	0.398	ug/L		01/30/24 10:37	02/07/24 23:30	1
1,3-Dinitrobenzene	<0.400	U	1.00	0.400	ug/L		01/30/24 10:37	02/07/24 23:30	1
3,5-Dinitroaniline	<0.377	U	0.900	0.377	ug/L		01/30/24 10:37	02/07/24 23:30	1
Nitroglycerin	<7.54	U	20.0	7.54	ug/L		01/30/24 10:37	02/07/24 23:30	1
2,4,6-Trinitrotoluene	<1.80	U	3.70	1.80	ug/L		01/30/24 10:37	02/07/24 23:30	1
Nitrobenzene	<0.420	U	0.900	0.420	ug/L		01/30/24 10:37	02/07/24 23:30	1
4-Amino-2,6-dinitrotoluene	<0.920	U	2.00	0.920	ug/L		01/30/24 10:37	02/07/24 23:30	1
2-Amino-4,6-dinitrotoluene	<0.426	U	0.850	0.426	ug/L		01/30/24 10:37	02/07/24 23:30	1
2,6-Dinitrotoluene	<0.350	U	0.800	0.350	ug/L		01/30/24 10:37	02/07/24 23:30	1
2,4-Dinitrotoluene	<0.330	U	0.700	0.330	ug/L		01/30/24 10:37	02/07/24 23:30	1
PETN	<10.1	U	23.0	10.1	ug/L		01/30/24 10:37	02/07/24 23:30	1
2-Nitrotoluene	<0.429	U	0.900	0.429	ug/L		01/30/24 10:37	02/07/24 23:30	1
4-Nitrotoluene	<0.438	U	0.900	0.438	ug/L		01/30/24 10:37	02/07/24 23:30	1
3-Nitrotoluene	<0.378	U	0.800	0.378	ug/L		01/30/24 10:37	02/07/24 23:30	1
2,6-diamino-4-nitrotoluene	<0.931	U	2.00	0.931	ug/L		01/30/24 10:37	02/07/24 23:30	1
2,4-diamino-6-nitrotoluene	<1.04	U	2.10	1.04	ug/L		01/30/24 10:37	02/07/24 23:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Nitro-m-xylene	92		68 - 122	01/30/24 10:37	02/07/24 23:30	1
2-Nitro-m-xylene	96		68 - 122	01/30/24 10:37	02/07/24 23:30	1

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: LCS 410-468013/2-A

Matrix: Water

Analysis Batch: 471494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HMX	10.0	9.883		ug/L		98	59 - 134
RDX	10.1	10.11		ug/L		100	72 - 127
1,3,5-Trinitrobenzene	10.1	9.918		ug/L		98	71 - 122
Tetryl	10.1	10.20		ug/L		101	67 - 120
1,3-Dinitrobenzene	10.1	10.17		ug/L		101	75 - 120
3,5-Dinitroaniline	10.1	9.800		ug/L		97	71 - 121
Nitroglycerin	111	142.9		ug/L		129	44 - 133
2,4,6-Trinitrotoluene	10.1	10.67		ug/L		106	81 - 128
Nitrobenzene	10.1	10.09	p	ug/L		100	85 - 120
4-Amino-2,6-dinitrotoluene	10.1	13.06		ug/L		129	67 - 132
2-Amino-4,6-dinitrotoluene	10.1	9.965		ug/L		99	72 - 120
2,6-Dinitrotoluene	10.1	10.12		ug/L		100	85 - 122
2,4-Dinitrotoluene	10.1	10.22		ug/L		101	76 - 122
PETN	110	103.1		ug/L		93	71 - 121
2-Nitrotoluene	10.1	9.841		ug/L		97	72 - 122
4-Nitrotoluene	10.1	10.29		ug/L		102	70 - 127
3-Nitrotoluene	10.1	10.25		ug/L		102	72 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	93		68 - 122
2-Nitro-m-xylene	95		68 - 122

Lab Sample ID: LCS 410-468013/4-A

Matrix: Water

Analysis Batch: 471494

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,6-diamino-4-nitrotoluene	20.1	16.61		ug/L		82	50 - 150
2,4-diamino-6-nitrotoluene	20.0	11.11		ug/L		56	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Nitro-m-xylene	93		68 - 122
2-Nitro-m-xylene	97		68 - 122

Lab Sample ID: LCSD 410-468013/3-A

Matrix: Water

Analysis Batch: 471494

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 468013

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
HMX	10.0	9.618		ug/L		96	59 - 134	3	30
RDX	10.1	10.03		ug/L		99	72 - 127	1	30
1,3,5-Trinitrobenzene	10.1	9.929		ug/L		99	71 - 122	0	30
Tetryl	10.1	10.11		ug/L		100	67 - 120	1	30
1,3-Dinitrobenzene	10.1	10.15		ug/L		101	75 - 120	0	30
3,5-Dinitroaniline	10.1	9.796		ug/L		97	71 - 121	0	30
Nitroglycerin	111	141.9		ug/L		128	44 - 133	1	30
2,4,6-Trinitrotoluene	10.1	10.65		ug/L		106	81 - 128	0	30
Nitrobenzene	10.1	10.06	p	ug/L		100	85 - 120	0	30

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8330B - Nitroaromatics and Nitramines (HPLC) (Continued)

Lab Sample ID: LCSD 410-468013/3-A

Matrix: Water

Analysis Batch: 471494

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 468013

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Amino-2,6-dinitrotoluene	10.1	13.11		ug/L		130	67 - 132	0	30
2-Amino-4,6-dinitrotoluene	10.1	9.957		ug/L		99	72 - 120	0	30
2,6-Dinitrotoluene	10.1	10.11		ug/L		100	85 - 122	0	30
2,4-Dinitrotoluene	10.1	10.18		ug/L		101	76 - 122	0	30
PETN	110	102.5		ug/L		93	71 - 121	1	30
2-Nitrotoluene	10.1	9.791		ug/L		97	72 - 122	1	30
4-Nitrotoluene	10.1	10.31		ug/L		102	70 - 127	1	30
3-Nitrotoluene	10.1	10.19		ug/L		101	72 - 126	1	30

Surrogate	%Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	93		68 - 122
2-Nitro-m-xylene	94		68 - 122

Lab Sample ID: LCSD 410-468013/5-A

Matrix: Water

Analysis Batch: 471494

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 468013

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,6-diamino-4-nitrotoluene	20.1	18.41		ug/L		91	50 - 150	10	30
2,4-diamino-6-nitrotoluene	20.0	14.67		ug/L		73	50 - 150	28	30

Surrogate	%Recovery	LCSD Qualifier	LCSD Limits
2-Nitro-m-xylene	87		68 - 122
2-Nitro-m-xylene	92		68 - 122

Method: VFA - HPLC - Volatile Fatty Acids (HPLC/UV)

Lab Sample ID: MB 860-145354/3

Matrix: Water

Analysis Batch: 145354

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caproic acid	<2.00	U	2.00	2.00	mg/L			02/09/24 18:47	1
Heptanoic acid	<2.00	U	2.00	2.00	mg/L			02/09/24 18:47	1
Isocaproic acid	<2.00	U	2.00	2.00	mg/L			02/09/24 18:47	1
Isovaleric acid	<2.00	U	2.00	2.00	mg/L			02/09/24 18:47	1
Propionic acid	<2.00	U	2.00	2.00	mg/L			02/09/24 18:47	1
Valeric acid	<2.00	U	2.00	2.00	mg/L			02/09/24 18:47	1
Butyric-Isobutyric Acid	<2.00	U	2.00	2.00	mg/L			02/09/24 18:47	1

Lab Sample ID: LCS 860-145354/4

Matrix: Water

Analysis Batch: 145354

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Caproic acid	50.0	48.50		mg/L		97	70 - 130
Heptanoic acid	50.0	48.15		mg/L		96	70 - 130
Isocaproic acid	50.0	48.92		mg/L		98	70 - 130
Isovaleric acid	50.0	49.62		mg/L		99	70 - 130

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: VFA - HPLC - Volatile Fatty Acids (HPLC/UV) (Continued)

Lab Sample ID: LCS 860-145354/4

Matrix: Water

Analysis Batch: 145354

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Propionic acid	50.0	50.87		mg/L		102	70 - 130
Valeric acid	50.0	49.00		mg/L		98	70 - 130
Butyric-Isobutyric Acid	100	100.5		mg/L		101	70 - 130

Lab Sample ID: LCSD 860-145354/5

Matrix: Water

Analysis Batch: 145354

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Caproic acid	50.0	49.33		mg/L		99	70 - 130	2	30
Heptanoic acid	50.0	47.58		mg/L		95	70 - 130	1	30
Isocaproic acid	50.0	49.72		mg/L		99	70 - 130	2	30
Isovaleric acid	50.0	49.93		mg/L		100	70 - 130	1	30
Propionic acid	50.0	50.45		mg/L		101	70 - 130	1	30
Valeric acid	50.0	49.19		mg/L		98	70 - 130	0	30
Butyric-Isobutyric Acid	100	100.0		mg/L		100	70 - 130	0	25

Method: 537 IDA - EPA 537 Isotope Dilution

Lab Sample ID: MB 410-468437/1-A

Matrix: Water

Analysis Batch: 469600

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468437

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.00	U	2.00	1.00	ng/L		01/31/24 06:46	02/02/24 16:09	1
Perfluoroheptanoic acid	<0.300	U	2.00	0.300	ng/L		01/31/24 06:46	02/02/24 16:09	1
Perfluorooctanoic acid	<0.300	U	2.00	0.300	ng/L		01/31/24 06:46	02/02/24 16:09	1
Perfluorononanoic acid	<0.200	U	2.00	0.200	ng/L		01/31/24 06:46	02/02/24 16:09	1
Perfluorodecanoic acid	<0.300	U	2.00	0.300	ng/L		01/31/24 06:46	02/02/24 16:09	1
Perfluorotridecanoic acid	<0.400	U	2.00	0.400	ng/L		01/31/24 06:46	02/02/24 16:09	1
Perfluorotetradecanoic acid	<0.400	U	2.00	0.400	ng/L		01/31/24 06:46	02/02/24 16:09	1
Perfluorobutanesulfonic acid	<0.300	U	2.00	0.300	ng/L		01/31/24 06:46	02/02/24 16:09	1
Perfluorohexanesulfonic acid	<0.200	U	2.00	0.200	ng/L		01/31/24 06:46	02/02/24 16:09	1
Perfluorooctanesulfonic acid	<0.500	U	2.00	0.500	ng/L		01/31/24 06:46	02/02/24 16:09	1
NEtFOSAA	<0.500	U	2.00	0.500	ng/L		01/31/24 06:46	02/02/24 16:09	1
NMeFOSAA	<0.400	U	2.00	0.400	ng/L		01/31/24 06:46	02/02/24 16:09	1
Perfluorododecanoic acid	<0.400	U	2.00	0.400	ng/L		01/31/24 06:46	02/02/24 16:09	1
HFPODA	<0.400	U	2.00	0.400	ng/L		01/31/24 06:46	02/02/24 16:09	1
9Cl-PF3ONS	<0.500	U	2.00	0.500	ng/L		01/31/24 06:46	02/02/24 16:09	1
11Cl-PF3OUdS	<0.500	U	2.00	0.500	ng/L		01/31/24 06:46	02/02/24 16:09	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.500	U	2.00	0.500	ng/L		01/31/24 06:46	02/02/24 16:09	1
Perfluoroundecanoic acid	<0.300	U	2.00	0.300	ng/L		01/31/24 06:46	02/02/24 16:09	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C5 PFHxA	88		28 - 166	01/31/24 06:46	02/02/24 16:09	1
13C4 PFHpA	90		40 - 165	01/31/24 06:46	02/02/24 16:09	1
13C8 PFOA	94		52 - 153	01/31/24 06:46	02/02/24 16:09	1
13C9 PFNA	101		52 - 168	01/31/24 06:46	02/02/24 16:09	1
13C6 PFDA	90		53 - 151	01/31/24 06:46	02/02/24 16:09	1

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: MB 410-468437/1-A

Matrix: Water

Analysis Batch: 469600

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 468437

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2-PFDoDA	90		22 - 165	01/31/24 06:46	02/02/24 16:09	1
13C2 PFTeDA	90		10 - 171	01/31/24 06:46	02/02/24 16:09	1
13C3 PFBS	96		34 - 200	01/31/24 06:46	02/02/24 16:09	1
13C3 PFHxS	94		48 - 169	01/31/24 06:46	02/02/24 16:09	1
13C8 PFOS	94		59 - 155	01/31/24 06:46	02/02/24 16:09	1
d3-NMeFOSAA	98		38 - 168	01/31/24 06:46	02/02/24 16:09	1
d5-NEtFOSAA	111		34 - 181	01/31/24 06:46	02/02/24 16:09	1
13C3 HFPO-DA	94		13 - 170	01/31/24 06:46	02/02/24 16:09	1
13C7 PFUnA	86		41 - 163	01/31/24 06:46	02/02/24 16:09	1

Lab Sample ID: LCS 410-468437/2-A

Matrix: Water

Analysis Batch: 469600

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perfluorohexanoic acid	25.6	22.08		ng/L		86	59 - 130
Perfluoroheptanoic acid	25.6	22.23		ng/L		87	64 - 130
Perfluorooctanoic acid	25.6	21.95		ng/L		86	58 - 132
Perfluorononanoic acid	25.6	21.15		ng/L		83	63 - 133
Perfluorodecanoic acid	25.6	23.44		ng/L		92	62 - 133
Perfluorotridecanoic acid	25.6	22.27		ng/L		87	59 - 136
Perfluorotetradecanoic acid	25.6	21.94		ng/L		86	62 - 131
Perfluorobutanesulfonic acid	22.7	19.63		ng/L		87	64 - 132
Perfluorohexanesulfonic acid	23.3	19.54		ng/L		84	62 - 130
Perfluorooctanesulfonic acid	23.7	19.45		ng/L		82	62 - 130
NEtFOSAA	25.6	20.88		ng/L		82	63 - 130
NMeFOSAA	25.6	20.38		ng/L		80	62 - 131
Perfluorododecanoic acid	25.6	22.12		ng/L		86	61 - 132
HFPODA	25.6	20.27		ng/L		79	53 - 131
9Cl-PF3ONS	23.8	20.15		ng/L		85	60 - 130
11Cl-PF3OUdS	23.8	19.61		ng/L		82	57 - 130
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	24.2	20.75		ng/L		86	61 - 130
Perfluoroundecanoic acid	25.6	23.97		ng/L		94	62 - 131

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C5 PFHxA	91		28 - 166
13C4 PFHpA	90		40 - 165
13C8 PFOA	93		52 - 153
13C9 PFNA	105		52 - 168
13C6 PFDA	94		53 - 151
13C2-PFDoDA	97		22 - 165
13C2 PFTeDA	100		10 - 171
13C3 PFBS	100		34 - 200
13C3 PFHxS	96		48 - 169
13C8 PFOS	97		59 - 155
d3-NMeFOSAA	108		38 - 168
d5-NEtFOSAA	122		34 - 181
13C3 HFPO-DA	95		13 - 170

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 537 IDA - EPA 537 Isotope Dilution (Continued)

Lab Sample ID: LCS 410-468437/2-A

Matrix: Water

Analysis Batch: 469600

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 468437

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C7 PFUnA	91		41 - 163

Lab Sample ID: LCSD 410-468437/3-A

Matrix: Water

Analysis Batch: 469600

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 468437

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perfluorohexanoic acid	25.6	23.58		ng/L		92	59 - 130	7	30
Perfluoroheptanoic acid	25.6	23.33		ng/L		91	64 - 130	5	30
Perfluorooctanoic acid	25.6	22.47		ng/L		88	58 - 132	2	30
Perfluorononanoic acid	25.6	21.42		ng/L		84	63 - 133	1	30
Perfluorodecanoic acid	25.6	23.62		ng/L		92	62 - 133	1	30
Perfluorotridecanoic acid	25.6	22.36		ng/L		87	59 - 136	0	30
Perfluorotetradecanoic acid	25.6	22.25		ng/L		87	62 - 131	1	30
Perfluorobutanesulfonic acid	22.7	20.07		ng/L		89	64 - 132	2	30
Perfluorohexanesulfonic acid	23.3	20.05		ng/L		86	62 - 130	3	30
Perfluorooctanesulfonic acid	23.7	19.66		ng/L		83	62 - 130	1	30
NEtFOSAA	25.6	21.93		ng/L		86	63 - 130	5	30
NMeFOSAA	25.6	21.19		ng/L		83	62 - 131	4	30
Perfluorododecanoic acid	25.6	22.21		ng/L		87	61 - 132	0	30
HFPODA	25.6	19.88		ng/L		78	53 - 131	2	30
9CI-PF3ONS	23.8	20.28		ng/L		85	60 - 130	1	30
11CI-PF3OUdS	23.8	20.09		ng/L		84	57 - 130	2	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	24.2	21.01		ng/L		87	61 - 130	1	30
Perfluoroundecanoic acid	25.6	23.18		ng/L		91	62 - 131	3	30

Isotope Dilution	LCSD %Recovery	LCSD Qualifier	Limits
13C5 PFHxA	91		28 - 166
13C4 PFHpA	93		40 - 165
13C8 PFOA	98		52 - 153
13C9 PFNA	107		52 - 168
13C6 PFDA	99		53 - 151
13C2-PFDoDA	98		22 - 165
13C2 PFTeDA	102		10 - 171
13C3 PFBS	103		34 - 200
13C3 PFHxS	99		48 - 169
13C8 PFOS	100		59 - 155
d3-NMeFOSAA	111		38 - 168
d5-NEtFOSAA	121		34 - 181
13C3 HFPO-DA	104		13 - 170
13C7 PFUnA	94		41 - 163

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: SW846 6850 - Perchlorate by LC/MS or LC/MS/MS

Lab Sample ID: MB 410-468684/1-A
Matrix: Water
Analysis Batch: 468704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 468684

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perchlorate	<0.230	U	1.00	0.230	ug/L		01/31/24 13:12	01/31/24 15:00	1

Lab Sample ID: LCS 410-468684/2-A
Matrix: Water
Analysis Batch: 468704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 468684

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Perchlorate	1.00	0.9575	J	ug/L		96	80 - 120

Lab Sample ID: LCSD 410-468684/3-A
Matrix: Water
Analysis Batch: 468704

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 468684

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Perchlorate	1.00	0.9588	J	ug/L		96	80 - 120	0	15

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 410-474882/1-A
Matrix: Water
Analysis Batch: 476019

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 474882

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	<4.53	U	25.0	4.53	pg/L		02/20/24 03:36	02/22/24 22:21	1
1,2,3,4,6,7,8-HpCDF	<2.50	U	25.0	2.50	pg/L		02/20/24 03:36	02/22/24 22:21	1
1,2,3,4,7,8-HxCDD	<2.50	U	25.0	2.50	pg/L		02/20/24 03:36	02/22/24 22:21	1
1,2,3,4,7,8-HxCDF	<2.50	U	25.0	2.50	pg/L		02/20/24 03:36	02/22/24 22:21	1
1,2,3,4,7,8,9-HpCDF	<2.50	U	25.0	2.50	pg/L		02/20/24 03:36	02/22/24 22:21	1
1,2,3,6,7,8-HxCDD	<2.50	U	25.0	2.50	pg/L		02/20/24 03:36	02/22/24 22:21	1
1,2,3,6,7,8-HxCDF	<2.50	U	25.0	2.50	pg/L		02/20/24 03:36	02/22/24 22:21	1
1,2,3,7,8-PeCDD	<3.16	U	25.0	3.16	pg/L		02/20/24 03:36	02/22/24 22:21	1
1,2,3,7,8-PeCDF	<2.76	U	25.0	2.76	pg/L		02/20/24 03:36	02/22/24 22:21	1
1,2,3,7,8,9-HxCDD	<2.50	U	25.0	2.50	pg/L		02/20/24 03:36	02/22/24 22:21	1
1,2,3,7,8,9-HxCDF	<2.50	U	25.0	2.50	pg/L		02/20/24 03:36	02/22/24 22:21	1
2,3,4,6,7,8-HxCDF	<2.50	U	25.0	2.50	pg/L		02/20/24 03:36	02/22/24 22:21	1
2,3,4,7,8-PeCDF	<2.50	U	25.0	2.50	pg/L		02/20/24 03:36	02/22/24 22:21	1
2,3,7,8-TCDD	<0.873	U	5.00	0.873	pg/L		02/20/24 03:36	02/22/24 22:21	1
2,3,7,8-TCDF	<0.812	U	5.00	0.812	pg/L		02/20/24 03:36	02/22/24 22:21	1
OCDD	<36.2	U	110	36.2	pg/L		02/20/24 03:36	02/22/24 22:21	1
OCDF	<6.15	U	50.0	6.15	pg/L		02/20/24 03:36	02/22/24 22:21	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,6,7,8-HpCDD	112		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-1,2,3,4,6,7,8-HpCDF	115		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-1,2,3,4,7,8-HxCDD	113		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-1,2,3,4,7,8-HxCDF	121		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-1,2,3,4,7,8,9-HpCDF	134		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-1,2,3,6,7,8-HxCDD	115		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-1,2,3,6,7,8-HxCDF	119		40 - 135	02/20/24 03:36	02/22/24 22:21	1

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 410-474882/1-A

Matrix: Water

Analysis Batch: 476019

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 474882

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,7,8-PeCDD	93		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-1,2,3,7,8-PeCDF	109		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-1,2,3,7,8,9-HxCDD	117		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-1,2,3,7,8,9-HxCDF	120		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-2,3,4,6,7,8-HxCDF	115		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-2,3,4,7,8-PeCDF	111		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-2,3,7,8-TCDD	128		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-2,3,7,8-TCDF	106		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-OCDD	129		40 - 135	02/20/24 03:36	02/22/24 22:21	1
13C-OCDF	134		40 - 135	02/20/24 03:36	02/22/24 22:21	1

Lab Sample ID: LCS 410-474882/2-A

Matrix: Water

Analysis Batch: 476019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 474882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3,4,6,7,8-HpCDD	1000	1194		pg/L		119	76 - 123
1,2,3,4,6,7,8-HpCDF	1000	1051		pg/L		105	74 - 123
1,2,3,4,7,8-HxCDD	1000	1215		pg/L		122	79 - 129
1,2,3,4,7,8-HxCDF	1000	1099		pg/L		110	78 - 127
1,2,3,4,7,8,9-HpCDF	1000	1026		pg/L		103	75 - 124
1,2,3,6,7,8-HxCDD	1000	1248		pg/L		125	80 - 128
1,2,3,6,7,8-HxCDF	1000	1118		pg/L		112	78 - 125
1,2,3,7,8-PeCDD	1000	1345	*+	pg/L		135	80 - 133
1,2,3,7,8-PeCDF	1000	1327	*+	pg/L		133	80 - 131
1,2,3,7,8,9-HxCDD	1000	1306		pg/L		131	80 - 133
1,2,3,7,8,9-HxCDF	1000	1130		pg/L		113	78 - 125
2,3,4,6,7,8-HxCDF	1000	1077		pg/L		108	77 - 126
2,3,4,7,8-PeCDF	1000	1348	*+	pg/L		135	80 - 130
2,3,7,8-TCDD	200	258.1	*+	pg/L		129	75 - 128
2,3,7,8-TCDF	200	214.6		pg/L		107	72 - 128
OCDD	2000	2433		pg/L		122	80 - 123
OCDF	2000	2374		pg/L		119	78 - 125

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-1,2,3,4,6,7,8-HpCDD	97		40 - 135
13C-1,2,3,4,6,7,8-HpCDF	110		40 - 135
13C-1,2,3,4,7,8-HxCDD	103		40 - 135
13C-1,2,3,4,7,8-HxCDF	124		40 - 135
13C-1,2,3,4,7,8,9-HpCDF	118		40 - 135
13C-1,2,3,6,7,8-HxCDD	101		40 - 135
13C-1,2,3,6,7,8-HxCDF	118		40 - 135
13C-1,2,3,7,8-PeCDD	73		40 - 135
13C-1,2,3,7,8-PeCDF	94		40 - 135
13C-1,2,3,7,8,9-HxCDD	101		40 - 135
13C-1,2,3,7,8,9-HxCDF	111		40 - 135
13C-2,3,4,6,7,8-HxCDF	117		40 - 135
13C-2,3,4,7,8-PeCDF	87		40 - 135
13C-2,3,7,8-TCDD	117		40 - 135

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 410-474882/2-A
Matrix: Water
Analysis Batch: 476019

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 474882

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-2,3,7,8-TCDF	118		40 - 135
13C-OCDD	94		40 - 135
13C-OCDF	111		40 - 135

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 860-143032/1-A
Matrix: Water
Analysis Batch: 143222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 143032

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0352	U	0.200	0.0352	mg/L		01/31/24 10:30	01/31/24 18:55	1
Antimony	<0.00803	U	0.0200	0.00803	mg/L		01/31/24 10:30	01/31/24 18:55	1
Arsenic	<0.00650	U	0.0100	0.00650	mg/L		01/31/24 10:30	01/31/24 18:55	1
Barium	<0.00125	U	0.0100	0.00125	mg/L		01/31/24 10:30	01/31/24 18:55	1
Beryllium	<0.00107	U	0.00400	0.00107	mg/L		01/31/24 10:30	01/31/24 18:55	1
Boron	<0.0162	U	0.0500	0.0162	mg/L		01/31/24 10:30	01/31/24 18:55	1
Cadmium	<0.000831	U	0.00500	0.000831	mg/L		01/31/24 10:30	01/31/24 18:55	1
Calcium	0.5950		0.200	0.102	mg/L		01/31/24 10:30	01/31/24 18:55	1
Chromium	<0.00216	U	0.0100	0.00216	mg/L		01/31/24 10:30	01/31/24 18:55	1
Cobalt	<0.00123	U	0.0100	0.00123	mg/L		01/31/24 10:30	01/31/24 18:55	1
Copper	<0.00388	U	0.0200	0.00388	mg/L		01/31/24 10:30	01/31/24 18:55	1
Iron	<0.0283	U	0.200	0.0283	mg/L		01/31/24 10:30	01/31/24 18:55	1
Lead	<0.00368	U	0.0100	0.00368	mg/L		01/31/24 10:30	01/31/24 18:55	1
Magnesium	<0.0445	U	0.200	0.0445	mg/L		01/31/24 10:30	01/31/24 18:55	1
Manganese	<0.00436	U	0.0200	0.00436	mg/L		01/31/24 10:30	01/31/24 18:55	1
Molybdenum	<0.00260	U	0.0100	0.00260	mg/L		01/31/24 10:30	01/31/24 18:55	1
Nickel	<0.00177	U	0.0100	0.00177	mg/L		01/31/24 10:30	01/31/24 18:55	1
Phosphorus	0.02170	J	0.0400	0.0184	mg/L		01/31/24 10:30	01/31/24 18:55	1
Potassium	<0.106	U	0.500	0.106	mg/L		01/31/24 10:30	01/31/24 18:55	1
Selenium	<0.00927	U	0.0300	0.00927	mg/L		01/31/24 10:30	01/31/24 18:55	1
Silicon	<0.173	U	0.500	0.173	mg/L		01/31/24 10:30	01/31/24 18:55	1
Silver	<0.00371	U	0.0200	0.00371	mg/L		01/31/24 10:30	01/31/24 18:55	1
Sodium	<0.152	U	0.500	0.152	mg/L		01/31/24 10:30	01/31/24 18:55	1
Strontium	<0.00308	U	0.0200	0.00308	mg/L		01/31/24 10:30	01/31/24 18:55	1
Thallium	<0.0110	U	0.0200	0.0110	mg/L		01/31/24 10:30	01/31/24 18:55	1
Tin	<0.00689	U	0.0200	0.00689	mg/L		01/31/24 10:30	01/31/24 18:55	1
Titanium	<0.00397	U	0.0300	0.00397	mg/L		01/31/24 10:30	01/31/24 18:55	1
Vanadium	<0.00518	U	0.0200	0.00518	mg/L		01/31/24 10:30	01/31/24 18:55	1
Zinc	0.01630	J	0.0300	0.00837	mg/L		01/31/24 10:30	01/31/24 18:55	1
Lithium	<0.0174	U	0.0400	0.0174	mg/L		01/31/24 10:30	01/31/24 18:55	1
Phosphate as PO4	0.06653	J	0.123	0.0564	mg/L		01/31/24 10:30	01/31/24 18:55	1

Lab Sample ID: LCS 860-143032/2-A
Matrix: Water
Analysis Batch: 143222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 143032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.00	4.600		mg/L		92	80 - 120

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCS 860-143032/2-A

Matrix: Water

Analysis Batch: 143222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 143032

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1.00	0.8850		mg/L		89	80 - 120
Arsenic	1.00	0.9900		mg/L		99	80 - 120
Barium	1.00	0.9450		mg/L		95	80 - 120
Beryllium	1.00	0.9560		mg/L		96	80 - 120
Boron	1.00	0.9650		mg/L		97	80 - 120
Cadmium	1.00	0.9780		mg/L		98	80 - 120
Calcium	25.0	25.40		mg/L		102	80 - 120
Chromium	1.00	0.9920		mg/L		99	80 - 120
Cobalt	1.00	0.9470		mg/L		95	80 - 120
Copper	1.00	1.010		mg/L		101	80 - 120
Iron	5.00	5.120		mg/L		102	80 - 120
Lead	1.00	0.9910		mg/L		99	80 - 120
Magnesium	25.0	25.20		mg/L		101	80 - 120
Manganese	1.00	1.040		mg/L		104	80 - 120
Molybdenum	1.00	0.9700		mg/L		97	80 - 120
Nickel	1.00	0.9370		mg/L		94	80 - 120
Phosphorus	1.00	0.9410		mg/L		94	80 - 120
Potassium	10.0	9.620		mg/L		96	80 - 120
Selenium	1.00	0.9690		mg/L		97	80 - 120
Silicon	10.0	9.610		mg/L		96	80 - 120
Silver	0.500	0.5420		mg/L		108	80 - 120
Sodium	25.0	25.40		mg/L		102	80 - 120
Strontium	1.00	1.050		mg/L		105	80 - 120
Thallium	1.00	1.000		mg/L		100	80 - 120
Tin	1.00	0.9850		mg/L		99	80 - 120
Titanium	1.00	1.010		mg/L		101	80 - 120
Vanadium	1.00	0.9860		mg/L		99	80 - 120
Zinc	1.00	0.9370		mg/L		94	80 - 120
Lithium	1.00	0.9330		mg/L		93	80 - 120

Lab Sample ID: LCSD 860-143032/3-A

Matrix: Water

Analysis Batch: 143222

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 143032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Aluminum	5.00	4.680		mg/L		94	80 - 120	2	20
Antimony	1.00	0.9220		mg/L		92	80 - 120	4	20
Arsenic	1.00	1.010		mg/L		101	80 - 120	2	20
Barium	1.00	0.9600		mg/L		96	80 - 120	2	20
Beryllium	1.00	0.9720		mg/L		97	80 - 120	2	20
Boron	1.00	0.9780		mg/L		98	80 - 120	1	20
Cadmium	1.00	0.9940		mg/L		99	80 - 120	2	20
Calcium	25.0	25.70		mg/L		103	80 - 120	1	20
Chromium	1.00	1.010		mg/L		101	80 - 120	2	20
Cobalt	1.00	0.9620		mg/L		96	80 - 120	2	20
Copper	1.00	1.030		mg/L		103	80 - 120	2	20
Iron	5.00	5.200		mg/L		104	80 - 120	2	20
Lead	1.00	1.010		mg/L		101	80 - 120	2	20
Magnesium	25.0	25.60		mg/L		102	80 - 120	2	20

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 860-143032/3-A

Matrix: Water

Analysis Batch: 143222

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 143032

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	1.00	1.060		mg/L		106	80 - 120	2	20
Molybdenum	1.00	0.9980		mg/L		100	80 - 120	3	20
Nickel	1.00	0.9500		mg/L		95	80 - 120	1	20
Phosphorus	1.00	0.9450		mg/L		95	80 - 120	0	20
Potassium	10.0	9.750		mg/L		98	80 - 120	1	20
Selenium	1.00	0.9930		mg/L		99	80 - 120	2	20
Silicon	10.0	9.780		mg/L		98	80 - 120	2	20
Silver	0.500	0.5490		mg/L		110	80 - 120	1	20
Sodium	25.0	25.80		mg/L		103	80 - 120	2	20
Strontium	1.00	1.070		mg/L		107	80 - 120	2	20
Thallium	1.00	1.020		mg/L		102	80 - 120	2	20
Tin	1.00	1.000		mg/L		100	80 - 120	2	20
Titanium	1.00	1.030		mg/L		103	80 - 120	2	20
Vanadium	1.00	1.000		mg/L		100	80 - 120	1	20
Zinc	1.00	0.9530		mg/L		95	80 - 120	2	20
Lithium	1.00	0.9460		mg/L		95	80 - 120	1	20

Lab Sample ID: MB 860-142731/22-D

Matrix: Water

Analysis Batch: 148827

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 148652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<0.0352	U	0.200	0.0352	mg/L		03/07/24 11:00	03/07/24 17:07	1
Antimony	<0.00803	U	0.0200	0.00803	mg/L		03/07/24 11:00	03/07/24 17:07	1
Arsenic	<0.00650	U	0.0100	0.00650	mg/L		03/07/24 11:00	03/07/24 17:07	1
Barium	<0.00125	U	0.0100	0.00125	mg/L		03/07/24 11:00	03/07/24 17:07	1
Beryllium	<0.00107	U	0.00400	0.00107	mg/L		03/07/24 11:00	03/07/24 17:07	1
Boron	<0.0162	U	0.0500	0.0162	mg/L		03/07/24 11:00	03/07/24 17:07	1
Cadmium	<0.000831	U	0.00500	0.000831	mg/L		03/07/24 11:00	03/07/24 17:07	1
Dissolved Calcium	<0.102	U	0.200	0.102	mg/L		03/07/24 11:00	03/07/24 17:07	1
Chromium	<0.00216	U	0.0100	0.00216	mg/L		03/07/24 11:00	03/07/24 17:07	1
Cobalt	<0.00123	U	0.0100	0.00123	mg/L		03/07/24 11:00	03/07/24 17:07	1
Copper	<0.00388	U	0.0200	0.00388	mg/L		03/07/24 11:00	03/07/24 17:07	1
Iron	<0.0283	U	0.200	0.0283	mg/L		03/07/24 11:00	03/07/24 17:07	1
Lead	<0.00368	U	0.0100	0.00368	mg/L		03/07/24 11:00	03/07/24 17:07	1
Dissolved Magnesium	<0.0445	U	0.200	0.0445	mg/L		03/07/24 11:00	03/07/24 17:07	1
Manganese	<0.00436	U	0.0200	0.00436	mg/L		03/07/24 11:00	03/07/24 17:07	1
Molybdenum	<0.00260	U	0.0100	0.00260	mg/L		03/07/24 11:00	03/07/24 17:07	1
Nickel	<0.00177	U	0.0100	0.00177	mg/L		03/07/24 11:00	03/07/24 17:07	1
P	<0.0184	U	0.0400	0.0184	mg/L		03/07/24 11:00	03/07/24 17:07	1
Potassium	<0.106	U	0.500	0.106	mg/L		03/07/24 11:00	03/07/24 17:07	1
Selenium	<0.00927	U	0.0300	0.00927	mg/L		03/07/24 11:00	03/07/24 17:07	1
Silver	<0.00371	U	0.0200	0.00371	mg/L		03/07/24 11:00	03/07/24 17:07	1
Sodium	<0.152	U	0.500	0.152	mg/L		03/07/24 11:00	03/07/24 17:07	1
Strontium	<0.00308	U	0.0200	0.00308	mg/L		03/07/24 11:00	03/07/24 17:07	1
Thallium	<0.0110	U	0.0200	0.0110	mg/L		03/07/24 11:00	03/07/24 17:07	1
Tin	<0.00689	U	0.0200	0.00689	mg/L		03/07/24 11:00	03/07/24 17:07	1
Titanium	<0.00397	U	0.0300	0.00397	mg/L		03/07/24 11:00	03/07/24 17:07	1
Vanadium	<0.00518	U	0.0200	0.00518	mg/L		03/07/24 11:00	03/07/24 17:07	1

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: MB 860-142731/22-D

Matrix: Water

Analysis Batch: 148827

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 148652

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
SiO2	<0.370	U	1.07	0.370	mg/L		03/07/24 11:00	03/07/24 17:07	1
Zinc	<0.00837	U	0.0300	0.00837	mg/L		03/07/24 11:00	03/07/24 17:07	1

Lab Sample ID: LCS 860-142731/23-D

Matrix: Water

Analysis Batch: 148827

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 148652

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	5.00	4.880		mg/L		98	80 - 120
Antimony	1.00	0.9900		mg/L		99	80 - 120
Arsenic	1.00	0.9880		mg/L		99	80 - 120
Barium	1.00	0.9690		mg/L		97	80 - 120
Beryllium	1.00	1.040		mg/L		104	80 - 120
Boron	1.00	0.9860		mg/L		99	80 - 120
Cadmium	1.00	0.9690		mg/L		97	80 - 120
Dissolved Calcium	25.0	25.50		mg/L		102	80 - 120
Chromium	1.00	1.010		mg/L		101	80 - 120
Cobalt	1.00	1.000		mg/L		100	80 - 120
Copper	1.00	1.010		mg/L		101	80 - 120
Iron	5.00	5.100		mg/L		102	80 - 120
Lead	1.00	1.050		mg/L		105	80 - 120
Dissolved Magnesium	25.0	25.20		mg/L		101	80 - 120
Manganese	1.00	1.050		mg/L		105	80 - 120
Molybdenum	1.00	1.040		mg/L		104	80 - 120
Nickel	1.00	0.9970		mg/L		100	80 - 120
P	1.00	1.020		mg/L		102	80 - 120
Potassium	10.0	9.690		mg/L		97	80 - 120
Selenium	1.00	0.9810		mg/L		98	80 - 120
Silver	0.500	0.4990		mg/L		100	80 - 120
Sodium	25.0	25.10		mg/L		100	80 - 120
Strontium	1.00	1.040		mg/L		104	80 - 120
Thallium	1.00	1.050		mg/L		105	80 - 120
Tin	1.00	1.030		mg/L		103	80 - 120
Titanium	1.00	0.9750		mg/L		98	80 - 120
Vanadium	1.00	0.9900		mg/L		99	80 - 120
SiO2	21.4	20.99		mg/L		98	80 - 120
Zinc	1.00	1.020		mg/L		102	80 - 120

Lab Sample ID: LCSD 860-142731/24-D

Matrix: Water

Analysis Batch: 148827

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Prep Batch: 148652

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	5.00	4.870		mg/L		97	80 - 120	0	20
Antimony	1.00	0.9890		mg/L		99	80 - 120	0	20
Arsenic	1.00	0.9900		mg/L		99	80 - 120	0	20
Barium	1.00	0.9670		mg/L		97	80 - 120	0	20
Beryllium	1.00	1.040		mg/L		104	80 - 120	0	20
Boron	1.00	0.9820		mg/L		98	80 - 120	0	20

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: LCSD 860-142731/24-D

Matrix: Water

Analysis Batch: 148827

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Prep Batch: 148652

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cadmium	1.00	0.9670		mg/L		97	80 - 120	0	20
Dissolved Calcium	25.0	25.40		mg/L		102	80 - 120	0	20
Chromium	1.00	1.010		mg/L		101	80 - 120	0	20
Cobalt	1.00	1.000		mg/L		100	80 - 120	0	20
Copper	1.00	1.010		mg/L		101	80 - 120	0	20
Iron	5.00	5.090		mg/L		102	80 - 120	0	20
Lead	1.00	1.050		mg/L		105	80 - 120	0	20
Dissolved Magnesium	25.0	25.10		mg/L		100	80 - 120	0	20
Manganese	1.00	1.050		mg/L		105	80 - 120	0	20
Molybdenum	1.00	1.040		mg/L		104	80 - 120	0	20
Nickel	1.00	0.9990		mg/L		100	80 - 120	0	20
P	1.00	1.020		mg/L		102	80 - 120	0	20
Potassium	10.0	9.710		mg/L		97	80 - 120	0	20
Selenium	1.00	0.9830		mg/L		98	80 - 120	0	20
Silver	0.500	0.4980		mg/L		100	80 - 120	0	20
Sodium	25.0	25.10		mg/L		100	80 - 120	0	20
Strontium	1.00	1.040		mg/L		104	80 - 120	0	20
Thallium	1.00	1.050		mg/L		105	80 - 120	0	20
Tin	1.00	1.020		mg/L		102	80 - 120	1	20
Titanium	1.00	0.9740		mg/L		97	80 - 120	0	20
Vanadium	1.00	0.9880		mg/L		99	80 - 120	0	20
SiO2	21.4	20.99		mg/L		98	80 - 120	0	20
Zinc	1.00	1.020		mg/L		102	80 - 120	0	20

Lab Sample ID: 880-38528-1 MS

Matrix: Water

Analysis Batch: 148827

Client Sample ID: Raw Produced

Prep Type: Dissolved

Prep Batch: 148652

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Aluminum	<1.76	U F2	5.00	3.785	J	mg/L		76	75 - 125
Antimony	<0.402	U F1 F2	1.00	0.6200	J F1	mg/L		62	75 - 125
Arsenic	<0.325	U F1 F2	1.00	0.6250	F1	mg/L		63	75 - 125
Barium	31.0		1.00	23.20	4	mg/L		-780	75 - 125
Beryllium	<0.0535	U	1.00	0.7900		mg/L		79	75 - 125
Boron	14.2		1.00	10.85	4	mg/L		-330	75 - 125
Cadmium	<0.0416	U	1.00	0.8400		mg/L		84	75 - 125
Dissolved Calcium	9050		25.0	5950	4	mg/L		-1240	75 - 125
Chromium	<0.108	U F2	1.00	0.8400		mg/L		84	75 - 125
Cobalt	<0.0615	U	1.00	0.7850		mg/L		79	75 - 125
Copper	<0.194	U	1.00	0.9800	J	mg/L		98	75 - 125
Iron	34.0		5.00	27.25	4	mg/L		-135	75 - 125
Lead	<0.184	U	1.00	0.8850		mg/L		89	75 - 125
Dissolved Magnesium	1270		25.0	845.0	4	mg/L		-1680	75 - 125
Manganese	2.71	F1	1.00	2.785	F1	mg/L		8	75 - 125
Molybdenum	<0.130	U	1.00	0.9500		mg/L		95	75 - 125
Nickel	0.118	J F1 F2	1.00	0.8150	F1	mg/L		70	75 - 125
P	5.40		1.00	4.710	4	mg/L		-69	75 - 125
Potassium	349		10.0	248.5	4	mg/L		-1000	75 - 125

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 880-38528-1 MS

Matrix: Water

Analysis Batch: 148827

Client Sample ID: Raw Produced

Prep Type: Dissolved

Prep Batch: 148652

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.745	J F1 F2	1.00	1.195	J F1	mg/L		45	75 - 125
Silver	<0.186	U F2	0.500	0.3825	J	mg/L		77	75 - 125
Sodium	51500		25.0	34600	4	mg/L		-6760 0	75 - 125
Strontium	OVER	F1 E	1.00	OVER	E	ppb			75 - 125
Thallium	<0.551	U F1	1.00	<0.551	U F1	mg/L		0	75 - 125
Tin	<0.345	U F1 F2	1.00	0.6950	J F1	mg/L		70	75 - 125
Titanium	<0.199	U	1.00	0.8150	J	mg/L		82	75 - 125
Vanadium	<0.259	U	1.00	0.7950	J	mg/L		80	75 - 125
SiO2	31.2	J F1	21.4	39.06	J F1	mg/L		37	75 - 125
Zinc	<0.419	U	1.00	0.8600	J	mg/L		86	75 - 125

Lab Sample ID: 880-38528-1 MSD

Matrix: Water

Analysis Batch: 148827

Client Sample ID: Raw Produced

Prep Type: Dissolved

Prep Batch: 148652

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aluminum	<1.76	U F2	5.00	4.715	J F2	mg/L		94	75 - 125	22	20
Antimony	<0.402	U F1 F2	1.00	1.100	F2	mg/L		110	75 - 125	56	20
Arsenic	<0.325	U F1 F2	1.00	1.065	F2	mg/L		107	75 - 125	52	20
Barium	31.0		1.00	27.65	4	mg/L		-335	75 - 125	18	20
Beryllium	<0.0535	U	1.00	0.9250		mg/L		93	75 - 125	16	20
Boron	14.2		1.00	12.95	4	mg/L		-120	75 - 125	18	20
Cadmium	<0.0416	U	1.00	0.9700		mg/L		97	75 - 125	14	20
Dissolved Calcium	9050		25.0	7100	4	mg/L		-7800	75 - 125	18	20
Chromium	<0.108	U F2	1.00	1.045	F2	mg/L		105	75 - 125	22	20
Cobalt	<0.0615	U	1.00	0.9400		mg/L		94	75 - 125	18	20
Copper	<0.194	U	1.00	1.145		mg/L		115	75 - 125	16	20
Iron	34.0		5.00	32.00	4	mg/L		-40	75 - 125	16	20
Lead	<0.184	U	1.00	1.035		mg/L		104	75 - 125	16	20
Dissolved Magnesium	1270		25.0	1010	4	mg/L		-1020	75 - 125	18	20
Manganese	2.71	F1	1.00	3.310	F1	mg/L		61	75 - 125	17	20
Molybdenum	<0.130	U	1.00	1.045		mg/L		105	75 - 125	10	20
Nickel	0.118	J F1 F2	1.00	1.015	F2	mg/L		90	75 - 125	22	20
P	5.40		1.00	5.150	4	mg/L		-25	75 - 125	9	20
Potassium	349		10.0	273.0	4	mg/L		-755	75 - 125	9	20
Selenium	0.745	J F1 F2	1.00	1.495	J F2	mg/L		75	75 - 125	22	20
Silver	<0.186	U F2	0.500	0.4820	J F2	mg/L		96	75 - 125	23	20
Sodium	51500		25.0	40950	4	mg/L		-4220 0	75 - 125	17	20
Strontium	OVER	F1 E	1.00	OVER	E F1	ppb		0	75 - 125	NC	20
Thallium	<0.551	U F1	1.00	<0.551	U F1	mg/L		0	75 - 125	NC	20
Tin	<0.345	U F1 F2	1.00	0.8650	J F2	mg/L		87	75 - 125	22	20
Titanium	<0.199	U	1.00	0.9550	J	mg/L		96	75 - 125	16	20
Vanadium	<0.259	U	1.00	0.9650	J	mg/L		97	75 - 125	19	20
SiO2	31.2	J F1	21.4	46.76	J F1	mg/L		73	75 - 125	18	20
Zinc	<0.419	U	1.00	1.030	J	mg/L		103	75 - 125	18	20

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 6020A - Rare Earth Metals (ICP/MS)

Lab Sample ID: MB 860-142814/1-A
Matrix: Water
Analysis Batch: 143074

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142814

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dysprosium	<0.00100	U	0.00100	0.00100	mg/L		01/30/24 11:00	01/31/24 12:25	1
Praseodymium	<0.00100	U	0.00100	0.00100	mg/L		01/30/24 11:00	01/31/24 12:25	1
Lanthanum	<0.00100	U	0.00100	0.00100	mg/L		01/30/24 11:00	01/31/24 12:25	1
Cerium	<0.00100	U	0.00100	0.00100	mg/L		01/30/24 11:00	01/31/24 12:25	1
Neodymium	<0.00100	U	0.00100	0.00100	mg/L		01/30/24 11:00	01/31/24 12:25	1
Yttrium	<0.00100	U	0.00100	0.00100	mg/L		01/30/24 11:00	01/31/24 12:25	1
Terbium	<0.00100	U	0.00100	0.00100	mg/L		01/30/24 11:00	01/31/24 12:25	1
Europium	<0.00100	U	0.00100	0.00100	mg/L		01/30/24 11:00	01/31/24 12:25	1

Lab Sample ID: LCS 860-142814/2-A
Matrix: Water
Analysis Batch: 143074

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142814

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dysprosium	0.0500	0.04816		mg/L		96	80 - 120
Praseodymium	0.0500	0.04806		mg/L		96	80 - 120
Lanthanum	0.0500	0.04797		mg/L		96	80 - 120
Cerium	0.0500	0.04815		mg/L		96	80 - 120
Neodymium	0.0500	0.04843		mg/L		97	80 - 120
Europium	0.0500	0.04799		mg/L		96	80 - 120

Lab Sample ID: LCSD 860-142814/3-A
Matrix: Water
Analysis Batch: 143074

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142814

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dysprosium	0.0500	0.04797		mg/L		96	80 - 120	0	20
Praseodymium	0.0500	0.04809		mg/L		96	80 - 120	0	20
Lanthanum	0.0500	0.04781		mg/L		96	80 - 120	0	20
Cerium	0.0500	0.04806		mg/L		96	80 - 120	0	20
Neodymium	0.0500	0.04813		mg/L		96	80 - 120	1	20
Europium	0.0500	0.04792		mg/L		96	80 - 120	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCS 860-144617/2-A
Matrix: Water
Analysis Batch: 145320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 144617

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Au	0.0500	0.05541		mg/L		111	80 - 120

Lab Sample ID: LCSD 860-144617/3-A
Matrix: Water
Analysis Batch: 145320

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 144617

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Au	0.0500	0.05431		mg/L		109	80 - 120	2	20

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 860-142731/1-B

Matrix: Water

Analysis Batch: 143084

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 142784

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium	<0.000211	U	0.00100	0.000211	mg/L		01/30/24 09:30	01/31/24 12:25	1

Lab Sample ID: LCS 860-142731/2-B

Matrix: Water

Analysis Batch: 143084

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Prep Batch: 142784

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium	0.0250	0.02436		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-142731/3-B

Matrix: Water

Analysis Batch: 143084

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Prep Batch: 142784

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Uranium	0.0250	0.02455		mg/L		98	80 - 120	1	20

Lab Sample ID: MB 860-142731/1-D

Matrix: Water

Analysis Batch: 145320

Client Sample ID: Method Blank

Prep Type: Dissolved

Prep Batch: 144617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Au	<0.00100	U	0.00100	0.00100	mg/L		02/09/24 10:30	02/14/24 12:37	1
Zirconium	<0.00100	U	0.00100	0.00100	mg/L		02/09/24 10:30	02/14/24 12:37	1

Method: 6020B - Metals (ICP/MS), Isotopic Uranium

Lab Sample ID: MB 160-647099/1-A

Matrix: Water

Analysis Batch: 650329

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 647099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Uranium-233	<0.00667	U	0.0600	0.00667	ug/L		02/06/24 12:51	02/08/24 10:22	2
Uranium-234	<0.00348	U	0.0600	0.00348	ug/L		02/06/24 12:51	02/08/24 10:22	2
Uranium-235	<0.0280	U	0.0600	0.0280	ug/L		02/06/24 12:51	02/08/24 10:22	2
Uranium-236	<0.0148	U	0.0600	0.0148	ug/L		02/06/24 12:51	02/08/24 10:22	2
Uranium-238	<0.0240	U	0.0600	0.0240	ug/L		02/06/24 12:51	02/08/24 10:22	2

Lab Sample ID: LCS 160-647099/2-A

Matrix: Water

Analysis Batch: 650329

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 647099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Uranium-234	0.0764	0.07936		ug/L		104	80 - 120
Uranium-235	4.50	4.701		ug/L		104	80 - 120
Uranium-238	5.02	5.382		ug/L		107	80 - 120

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 860-146283/1
Matrix: Water
Analysis Batch: 146283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM	<1.57	U	5.00	1.57	mg/L			02/21/24 10:19	1

Lab Sample ID: LCS 860-146283/2
Matrix: Water
Analysis Batch: 146283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM	40.0	43.90		mg/L		110	78 - 114

Lab Sample ID: LCSD 860-146283/3
Matrix: Water
Analysis Batch: 146283

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM	40.0	44.50		mg/L		111	78 - 114	1	18

Method: 180.1 - Turbidity, Nephelometric

Lab Sample ID: MB 860-142519/3
Matrix: Water
Analysis Batch: 142519

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Turbidity	<0.50	U	1.0	0.50	NTU			01/28/24 08:30	1

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 860-148017/68
Matrix: Water
Analysis Batch: 148017

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.0510	U	0.100	0.0510	mg/L			03/03/24 17:52	1

Lab Sample ID: LCS 860-148017/69
Matrix: Water
Analysis Batch: 148017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	1.00	0.9969		mg/L		100	90 - 110

Lab Sample ID: LCSD 860-148017/70
Matrix: Water
Analysis Batch: 148017

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	1.00	1.006		mg/L		101	90 - 110	1	20

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 8000 - COD

Lab Sample ID: MB 860-146661/3
Matrix: Water
Analysis Batch: 146661

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<3.36	U	20.0	3.36	mg/L			02/22/24 18:22	1

Lab Sample ID: LCS 860-146661/4
Matrix: Water
Analysis Batch: 146661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	100	108.0		mg/L		108	90 - 110

Method: 8146 - Iron, Ferrous

Lab Sample ID: MB 860-144250/3
Matrix: Water
Analysis Batch: 144250

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0280	U	0.0500	0.0280	mg/L			02/07/24 12:19	1

Lab Sample ID: LCS 860-144250/4
Matrix: Water
Analysis Batch: 144250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	1.00	0.8400		mg/L		84	75 - 125

Lab Sample ID: LCSD 860-144250/5
Matrix: Water
Analysis Batch: 144250

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	1.00	0.8400		mg/L		84	75 - 125	0	25

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 860-142713/30-A
Matrix: Water
Analysis Batch: 143080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<24.0	U	60.0	24.0	ug/L		01/29/24 19:37	01/30/24 17:29	1

Lab Sample ID: MB 860-142713/4-A
Matrix: Water
Analysis Batch: 143080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 142713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<2.00	U	5.00	2.00	ug/L		01/29/24 19:37	01/30/24 16:47	1

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 9012B - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 860-142713/5-A
Matrix: Water
Analysis Batch: 143080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	100	98.34		ug/L		98	90 - 110

Lab Sample ID: LCSD 860-142713/32-A
Matrix: Water
Analysis Batch: 143080

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 142713

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cyanide, Total	1250	1252		ug/L		100	90 - 110	2	20

Lab Sample ID: LLCS 860-142713/6-A
Matrix: Water
Analysis Batch: 143080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 142713

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	5.00	4.485	J	ug/L		90	50 - 150

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 680-823765/1-A
Matrix: Water
Analysis Batch: 823796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 823765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Total Organic	<14.0	U	40.0	14.0	ug/L		02/20/24 06:30	02/20/24 12:22	1

Lab Sample ID: LCS 680-823765/2-A
Matrix: Water
Analysis Batch: 823796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 823765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOX Result 1	400	364.8		ug/L		91	60 - 140
TOX Result 2	400	364.8		ug/L		91	60 - 140

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-144279/3
Matrix: Water
Analysis Batch: 144279

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			02/07/24 09:44	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			02/07/24 09:44	1

Lab Sample ID: LCS 860-144279/4
Matrix: Water
Analysis Batch: 144279

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity as CaCO3	250	260.6		mg/L		104	85 - 115

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-144279/5
Matrix: Water
Analysis Batch: 144279

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity as CaCO3	250	255.5		mg/L		102	85 - 115	2	20

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: LCS 860-148144/2
Matrix: Water
Analysis Batch: 148144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Electrical Conductivity (25C)	1410	1414		umho/cm @ 25C		100	85 - 115		

Lab Sample ID: LCSD 860-148144/3
Matrix: Water
Analysis Batch: 148144

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Electrical Conductivity (25C)	1410	1414		umho/cm @ 25C		100	85 - 115	0	20

Lab Sample ID: LLCS 860-148144/4
Matrix: Water
Analysis Batch: 148144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Electrical Conductivity (25C)	10.0	11.07		umho/cm @ 25C		111	50 - 150		

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-143260/1
Matrix: Water
Analysis Batch: 143260

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			02/01/24 11:19	1

Lab Sample ID: LCS 860-143260/2
Matrix: Water
Analysis Batch: 143260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1110		mg/L		111	80 - 120		

Lab Sample ID: LCSD 860-143260/3
Matrix: Water
Analysis Batch: 143260

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1100		mg/L		110	80 - 120	1	10

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LLCS 860-143260/26

Matrix: Water

Analysis Batch: 143260

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	5.00	7.000		mg/L		140	50 - 150

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 860-143275/1

Matrix: Water

Analysis Batch: 143275

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<4.00	U	4.00	4.00	mg/L			02/01/24 11:54	1

Lab Sample ID: LCS 860-143275/2

Matrix: Water

Analysis Batch: 143275

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	100.0		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-143275/3

Matrix: Water

Analysis Batch: 143275

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids	100	99.00		mg/L		99	80 - 120	1	10

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 860-142587/3

Matrix: Water

Analysis Batch: 142587

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	<0.00200	U	0.0100	0.00200	mg/L			01/29/24 09:49	1

Lab Sample ID: LCS 860-142587/4

Matrix: Water

Analysis Batch: 142587

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cr (VI)	0.200	0.1808		mg/L		90	80 - 120

Lab Sample ID: LCSD 860-142587/5

Matrix: Water

Analysis Batch: 142587

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cr (VI)	0.200	0.1821		mg/L		91	80 - 120	1	20

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: SM 4500 S2 D - Sulfide, Total

Lab Sample ID: MB 860-142852/3
Matrix: Water
Analysis Batch: 142852

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<0.0400	U	0.100	0.0400	mg/L			01/30/24 13:21	1

Lab Sample ID: LCS 860-142852/4
Matrix: Water
Analysis Batch: 142852

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	1.00	1.095		mg/L		110	90 - 110

Lab Sample ID: LCSD 860-142852/5
Matrix: Water
Analysis Batch: 142852

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	1.00	1.092		mg/L		109	90 - 110	0	20

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 400-659665/52
Matrix: Water
Analysis Batch: 659665

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<0.500	U	1.00	0.500	mg/L			02/03/24 06:56	1

Lab Sample ID: LCS 400-659665/53
Matrix: Water
Analysis Batch: 659665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	20.0	19.93		mg/L		100	85 - 115

Lab Sample ID: LCSD 400-659665/54
Matrix: Water
Analysis Batch: 659665

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	20.0	20.24		mg/L		101	85 - 115	2	30

Lab Sample ID: MRL 400-659665/6
Matrix: Water
Analysis Batch: 659665

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	1.00	0.9212	J	mg/L		92	50 - 150

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: SM 5310B - Organic Carbon, Dissolved (DOC)

Lab Sample ID: MB 400-659673/1-A

Matrix: Water

Analysis Batch: 659666

Client Sample ID: Method Blank

Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dissolved Organic Carbon	<0.500	U	1.00	0.500	mg/L			02/02/24 21:58	1

Lab Sample ID: LCS 400-659673/2-A

Matrix: Water

Analysis Batch: 659666

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	20.0	19.33		mg/L		97	85 - 115

Lab Sample ID: LCSD 400-659673/3-A

Matrix: Water

Analysis Batch: 659666

Client Sample ID: Lab Control Sample Dup

Prep Type: Dissolved

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dissolved Organic Carbon	20.0	19.88		mg/L		99	85 - 115	3	30

Lab Sample ID: MRL 400-659666/6

Matrix: Water

Analysis Batch: 659666

Client Sample ID: Lab Control Sample

Prep Type: Dissolved

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Dissolved Organic Carbon	1.00	0.9212	J	mg/L		92	50 - 150

Method: SM 5540C - Methylene Blue Active Substances (MBAS)

Lab Sample ID: MB 860-142599/3

Matrix: Water

Analysis Batch: 142599

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Blue Active Substances	<0.0800	U	0.100	0.0800	mg/L			01/27/24 18:19	1

Lab Sample ID: LCS 860-142599/4

Matrix: Water

Analysis Batch: 142599

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methylene Blue Active Substances	1.00	0.9663		mg/L		97	90 - 110

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity

Lab Sample ID: MB 160-646914/1-A

Matrix: Water

Analysis Batch: 647336

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 646914

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	-0.1792	U	0.458	0.458	3.00	0.964	pCi/L	02/05/24 10:15	02/08/24 18:18	1
Gross Beta	0.03519	U	0.489	0.489	4.00	0.873	pCi/L	02/05/24 10:15	02/08/24 18:18	1

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 900.0 - Gross Alpha and Gross Beta Radioactivity (Continued)

Lab Sample ID: LCS 160-646914/2-A
Matrix: Water
Analysis Batch: 647336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646914

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	49.3	54.21		7.90	3.00	2.54	pCi/L	110	75 - 125

Lab Sample ID: LCSB 160-646914/3-A
Matrix: Water
Analysis Batch: 647336

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646914

Analyte	Spike Added	LCSB Result	LCSB Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Beta	72.0	73.18		7.85	4.00	0.797	pCi/L	102	75 - 125

Method: 901.1 - Radium-226 & Other Gamma Emitters (GS)

Lab Sample ID: MB 160-646186/1-A
Matrix: Water
Analysis Batch: 649533

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 646186

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Actinium-227	26.36	U	74.0	74.0		97.8	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Actinium-228	-32.44	U	56.6	56.8		63.3	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Bismuth-212	66.70	U	123	123		208	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Bismuth-214	65.56		22.6	23.9		17.9	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Lead-210	-209.4	U	171	173		308	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Lead-212	-18.53	U	19.7	19.8		36.2	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Lead-214	41.66		14.4	15.3		22.4	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Potassium-40	52.54	U	93.1	93.3		101	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Protactinium-231	0.0000	U	163	163		1190	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Radium-226	65.56		22.6	23.9	50.0	17.9	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Radium-228	-32.44	U G	56.6	56.8	50.0	63.3	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Thallium-208	12.95		10.7	10.8		10.3	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Thorium-232	-32.44	U	56.6	56.8		63.3	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Thorium-234	109.0	U	210	210		288	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Uranium 235	17.83	U	47.5	47.5		173	pCi/L	01/30/24 12:50	02/23/24 14:01	1
Uranium 238	109.0	U	210	210		288	pCi/L	01/30/24 12:50	02/23/24 14:01	1

Lab Sample ID: LCS 160-646186/2-A
Matrix: Water
Analysis Batch: 648904

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 646186

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Americium-241	135000	139200		16600		479	pCi/L	103	75 - 125
Cesium-137	40000	41430		4940		110	pCi/L	104	75 - 125
Cobalt-60	15800	16600		1980		66.7	pCi/L	105	75 - 125

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QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 903.0 - Radium-226 (GFPC)

Lab Sample ID: MB 160-646710/1-A

Matrix: Water

Analysis Batch: 649794

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 646710

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-226	0.1956		0.0830	0.0848	1.00	0.0873	pCi/L	02/02/24 09:54	02/26/24 12:13	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					02/02/24 09:54	02/26/24 12:13	1

Lab Sample ID: LCS 160-646710/2-A

Matrix: Water

Analysis Batch: 649794

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 646710

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-226		11.3	9.986		1.04	1.00	0.0962	pCi/L	88	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	93.3		30 - 110							

Method: 904.0 - Radium-228 (GFPC)

Lab Sample ID: MB 160-646711/1-A

Matrix: Water

Analysis Batch: 648422

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 646711

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Radium-228	0.2913	U	0.248	0.250	1.00	0.384	pCi/L	02/02/24 09:58	02/15/24 11:23	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Ba Carrier	97.8		30 - 110					02/02/24 09:58	02/15/24 11:23	1
Y Carrier	86.0		30 - 110					02/02/24 09:58	02/15/24 11:23	1

Lab Sample ID: LCS 160-646711/2-A

Matrix: Water

Analysis Batch: 648422

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 646711

Analyte		Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Radium-228		9.21	9.149		1.23	1.00	0.443	pCi/L	99	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits							
Ba Carrier	93.3		30 - 110							
Y Carrier	84.5		30 - 110							

Eurofins Midland

QC Sample Results

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method: 905 - Strontium-90 (GFPC)

Lab Sample ID: MB 160-646341/1-A

Matrix: Water

Analysis Batch: 647857

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 646341

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Strontium-90	0.1007	U	0.187	0.187	3.00	0.318	pCi/L	01/31/24 09:16	02/12/24 16:04	1
Carrier	MB %Yield	MB Qualifier	Limits					Prepared	Analyzed	Dil Fac
Sr Carrier	83.1		30 - 110					01/31/24 09:16	02/12/24 16:04	1
Y Carrier	95.3		30 - 110					01/31/24 09:16	02/12/24 16:04	1

Lab Sample ID: LCS 160-646341/2-A

Matrix: Water

Analysis Batch: 647857

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 646341

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Strontium-90	7.19	8.116		0.877	3.00	0.304	pCi/L	113	75 - 125
Carrier	LCS %Yield	LCS Qualifier	Limits						
Sr Carrier	82.1		30 - 110						
Y Carrier	92.7		30 - 110						

QC Association Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

GC/MS VOA

Analysis Batch: 142954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8260D	
MB 860-142954/11	Method Blank	Total/NA	Water	8260D	
LCS 860-142954/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-142954/5	Lab Control Sample Dup	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 143128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	3510C	
MB 860-143128/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-143128/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-143128/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 143331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-143128/1-A	Method Blank	Total/NA	Water	8270E LL	143128
LCS 860-143128/2-A	Lab Control Sample	Total/NA	Water	8270E LL	143128
LCSD 860-143128/3-A	Lab Control Sample Dup	Total/NA	Water	8270E LL	143128

Prep Batch: 143347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	3511	
MB 860-143347/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-143347/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-143347/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 143428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8270D SIM	143347
MB 860-143347/1-A	Method Blank	Total/NA	Water	8270D SIM	143347
LCS 860-143347/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	143347
LCSD 860-143347/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	143347

Analysis Batch: 143536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8270E LL	143128

Prep Batch: 405719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	Organotin	
MB 570-405719/1-A	Method Blank	Total/NA	Water	Organotin	
LCS 570-405719/2-A	Lab Control Sample	Total/NA	Water	Organotin	
LCSD 570-405719/3-A	Lab Control Sample Dup	Total/NA	Water	Organotin	

Analysis Batch: 406749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	Organotins SIM	405719
MB 570-405719/1-A	Method Blank	Total/NA	Water	Organotins SIM	405719
LCS 570-405719/2-A	Lab Control Sample	Total/NA	Water	Organotins SIM	405719
LCSD 570-405719/3-A	Lab Control Sample Dup	Total/NA	Water	Organotins SIM	405719

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QC Association Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

GC Semi VOA

Analysis Batch: 130308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8015 NM	

Analysis Batch: 142550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8015B NM	142559
MB 860-142559/1-A	Method Blank	Total/NA	Water	8015B NM	142559
LCS 860-142559/2-A	Lab Control Sample	Total/NA	Water	8015B NM	142559
LCSD 860-142559/3-A	Lab Control Sample Dup	Total/NA	Water	8015B NM	142559

Prep Batch: 142559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8015NM Aq Prep	
MB 860-142559/1-A	Method Blank	Total/NA	Water	8015NM Aq Prep	
LCS 860-142559/2-A	Lab Control Sample	Total/NA	Water	8015NM Aq Prep	
LCSD 860-142559/3-A	Lab Control Sample Dup	Total/NA	Water	8015NM Aq Prep	

Prep Batch: 142589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	3511	
MB 860-142589/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-142589/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-142589/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 142760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8151A	142589
MB 860-142589/1-A	Method Blank	Total/NA	Water	8151A	142589
LCS 860-142589/2-A	Lab Control Sample	Total/NA	Water	8151A	142589
LCSD 860-142589/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	142589

Prep Batch: 143280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	3510C	
MB 860-143280/1-A	Method Blank	Total/NA	Water	3510C	
LCS 860-143280/13-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 860-143280/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 860-143280/14-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 860-143280/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 143420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8082A	143280
MB 860-143280/1-A	Method Blank	Total/NA	Water	8082A	143280
LCS 860-143280/13-A	Lab Control Sample	Total/NA	Water	8082A	143280
LCSD 860-143280/14-A	Lab Control Sample Dup	Total/NA	Water	8082A	143280

Analysis Batch: 143426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8081B_LL	143280
MB 860-143280/1-A	Method Blank	Total/NA	Water	8081B_LL	143280
LCS 860-143280/2-A	Lab Control Sample	Total/NA	Water	8081B_LL	143280

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QC Association Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

GC Semi VOA (Continued)

Analysis Batch: 143426 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-143280/3-A	Lab Control Sample Dup	Total/NA	Water	8081B_LL	143280

Prep Batch: 458082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	3510C	
MB 180-458082/1-A	Method Blank	Total/NA	Water	3510C	
LCS 180-458082/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 180-458082/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 458212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	EPA 8141B	458082
MB 180-458082/1-A	Method Blank	Total/NA	Water	EPA 8141B	458082
LCS 180-458082/2-A	Lab Control Sample	Total/NA	Water	EPA 8141B	458082
LCSD 180-458082/3-A	Lab Control Sample Dup	Total/NA	Water	EPA 8141B	458082

HPLC/IC

Prep Batch: 142666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	CWA_Prep	
MB 860-142666/1-A	Method Blank	Total/NA	Water	CWA_Prep	
LCS 860-142666/2-A	Lab Control Sample	Total/NA	Water	CWA_Prep	
LCSD 860-142666/3-A	Lab Control Sample Dup	Total/NA	Water	CWA_Prep	

Analysis Batch: 143493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	300.0	
MB 860-143493/3	Method Blank	Total/NA	Water	300.0	
LCS 860-143493/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-143493/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-143493/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 143494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	300.0	
MB 860-143494/3	Method Blank	Total/NA	Water	300.0	
LCS 860-143494/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-143494/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 143834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-143834/13	Method Blank	Total/NA	Water	300.0	
LCS 860-143834/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-143834/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-143834/17	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 143835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	300.0	
MB 860-143835/13	Method Blank	Total/NA	Water	300.0	

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QC Association Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

HPLC/IC (Continued)

Analysis Batch: 143835 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-143835/14	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-143835/15	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-143835/16	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 144041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1 - DL	Raw Produced	Total/NA	Water	300.0	
MB 860-144041/3	Method Blank	Total/NA	Water	300.0	
LCS 860-144041/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-144041/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-144041/33	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 145354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	VFA - HPLC	
MB 860-145354/3	Method Blank	Total/NA	Water	VFA - HPLC	
LCS 860-145354/4	Lab Control Sample	Total/NA	Water	VFA - HPLC	
LCSD 860-145354/5	Lab Control Sample Dup	Total/NA	Water	VFA - HPLC	

Analysis Batch: 145833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	300.0	
MB 860-145833/43	Method Blank	Total/NA	Water	300.0	
LCS 860-145833/44	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-145833/45	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 146224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	632	142666
MB 860-142666/1-A	Method Blank	Total/NA	Water	632	142666
LCS 860-142666/2-A	Lab Control Sample	Total/NA	Water	632	142666
LCSD 860-142666/3-A	Lab Control Sample Dup	Total/NA	Water	632	142666

Prep Batch: 468013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8330-Prep	
MB 410-468013/1-A	Method Blank	Total/NA	Water	8330-Prep	
LCS 410-468013/2-A	Lab Control Sample	Total/NA	Water	8330-Prep	
LCS 410-468013/4-A	Lab Control Sample	Total/NA	Water	8330-Prep	
LCSD 410-468013/3-A	Lab Control Sample Dup	Total/NA	Water	8330-Prep	
LCSD 410-468013/5-A	Lab Control Sample Dup	Total/NA	Water	8330-Prep	

Prep Batch: 468290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8015 VFA	
MB 410-468290/1-A	Method Blank	Total/NA	Water	8015 VFA	
LCS 410-468290/4-A	Lab Control Sample	Total/NA	Water	8015 VFA	
LCSD 410-468290/3-A	Lab Control Sample Dup	Total/NA	Water	8015 VFA	

Eurofins Midland

QC Association Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

HPLC/IC

Analysis Batch: 468365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8015D VFA	468290
MB 410-468290/1-A	Method Blank	Total/NA	Water	8015D VFA	468290
LCS 410-468290/4-A	Lab Control Sample	Total/NA	Water	8015D VFA	468290
LCSD 410-468290/3-A	Lab Control Sample Dup	Total/NA	Water	8015D VFA	468290

Analysis Batch: 468367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8015D VFA	468290
MB 410-468290/1-A	Method Blank	Total/NA	Water	8015D VFA	468290
LCS 410-468290/4-A	Lab Control Sample	Total/NA	Water	8015D VFA	468290
LCSD 410-468290/3-A	Lab Control Sample Dup	Total/NA	Water	8015D VFA	468290

Analysis Batch: 471494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8330B	468013
MB 410-468013/1-A	Method Blank	Total/NA	Water	8330B	468013
LCS 410-468013/2-A	Lab Control Sample	Total/NA	Water	8330B	468013
LCS 410-468013/4-A	Lab Control Sample	Total/NA	Water	8330B	468013
LCSD 410-468013/3-A	Lab Control Sample Dup	Total/NA	Water	8330B	468013
LCSD 410-468013/5-A	Lab Control Sample Dup	Total/NA	Water	8330B	468013

LCMS

Prep Batch: 468437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SPE	
MB 410-468437/1-A	Method Blank	Total/NA	Water	SPE	
LCS 410-468437/2-A	Lab Control Sample	Total/NA	Water	SPE	
LCSD 410-468437/3-A	Lab Control Sample Dup	Total/NA	Water	SPE	

Prep Batch: 468684

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	6850 Prep	
MB 410-468684/1-A	Method Blank	Total/NA	Water	6850 Prep	
LCS 410-468684/2-A	Lab Control Sample	Total/NA	Water	6850 Prep	
LCSD 410-468684/3-A	Lab Control Sample Dup	Total/NA	Water	6850 Prep	

Analysis Batch: 468704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-468684/1-A	Method Blank	Total/NA	Water	SW846 6850	468684
LCS 410-468684/2-A	Lab Control Sample	Total/NA	Water	SW846 6850	468684
LCSD 410-468684/3-A	Lab Control Sample Dup	Total/NA	Water	SW846 6850	468684

Analysis Batch: 469061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SW846 6850	468684

Analysis Batch: 469600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	537 IDA	468437
MB 410-468437/1-A	Method Blank	Total/NA	Water	537 IDA	468437

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QC Association Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

LCMS (Continued)

Analysis Batch: 469600 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 410-468437/2-A	Lab Control Sample	Total/NA	Water	537 IDA	468437
LCSD 410-468437/3-A	Lab Control Sample Dup	Total/NA	Water	537 IDA	468437

Specialty Organics

Prep Batch: 474882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8290A	
MB 410-474882/1-A	Method Blank	Total/NA	Water	8290A	
LCS 410-474882/2-A	Lab Control Sample	Total/NA	Water	8290A	

Analysis Batch: 476019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 410-474882/1-A	Method Blank	Total/NA	Water	8290A	474882
LCS 410-474882/2-A	Lab Control Sample	Total/NA	Water	8290A	474882

Analysis Batch: 476547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8290A	474882

Metals

Filtration Batch: 142731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Dissolved	Water	Filtration	
MB 860-142731/1-B	Method Blank	Dissolved	Water	Filtration	
MB 860-142731/1-D	Method Blank	Dissolved	Water	Filtration	
MB 860-142731/22-D	Method Blank	Dissolved	Water	Filtration	
LCS 860-142731/23-D	Lab Control Sample	Dissolved	Water	Filtration	
LCS 860-142731/2-B	Lab Control Sample	Dissolved	Water	Filtration	
LCSD 860-142731/24-D	Lab Control Sample Dup	Dissolved	Water	Filtration	
LCSD 860-142731/3-B	Lab Control Sample Dup	Dissolved	Water	Filtration	
880-38528-1 MS	Raw Produced	Dissolved	Water	Filtration	
880-38528-1 MSD	Raw Produced	Dissolved	Water	Filtration	

Prep Batch: 142784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Dissolved	Water	3010A	142731
880-38528-1	Raw Produced	Total/NA	Water	3010A	
MB 860-142731/1-B	Method Blank	Dissolved	Water	3010A	142731
LCS 860-142731/2-B	Lab Control Sample	Dissolved	Water	3010A	142731
LCSD 860-142731/3-B	Lab Control Sample Dup	Dissolved	Water	3010A	142731

Prep Batch: 142814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	3010A	
MB 860-142814/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-142814/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-142814/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Eurofins Midland

QC Association Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Metals

Prep Batch: 143032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	3010A	
MB 860-143032/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-143032/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-143032/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 143074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	6020A	142814
MB 860-142814/1-A	Method Blank	Total/NA	Water	6020A	142814
LCS 860-142814/2-A	Lab Control Sample	Total/NA	Water	6020A	142814
LCSD 860-142814/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	142814

Analysis Batch: 143075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	6020B	

Analysis Batch: 143084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Dissolved	Water	6020B	142784
880-38528-1	Raw Produced	Total/NA	Water	6020B	142784
MB 860-142731/1-B	Method Blank	Dissolved	Water	6020B	142784
LCS 860-142731/2-B	Lab Control Sample	Dissolved	Water	6020B	142784
LCSD 860-142731/3-B	Lab Control Sample Dup	Dissolved	Water	6020B	142784

Analysis Batch: 143222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	6010D	143032
880-38528-1	Raw Produced	Total/NA	Water	6010D	143032
MB 860-143032/1-A	Method Blank	Total/NA	Water	6010D	143032
LCS 860-143032/2-A	Lab Control Sample	Total/NA	Water	6010D	143032
LCSD 860-143032/3-A	Lab Control Sample Dup	Total/NA	Water	6010D	143032

Analysis Batch: 144035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SM 2340B	

Prep Batch: 144617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Dissolved	Water	3010A	142731
MB 860-142731/1-D	Method Blank	Dissolved	Water	3010A	142731
LCS 860-144617/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-144617/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 145320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Dissolved	Water	6020B	144617
MB 860-142731/1-D	Method Blank	Dissolved	Water	6020B	144617
LCS 860-144617/2-A	Lab Control Sample	Total/NA	Water	6020B	144617
LCSD 860-144617/3-A	Lab Control Sample Dup	Total/NA	Water	6020B	144617

Eurofins Midland

QC Association Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Metals

Prep Batch: 148652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Dissolved	Water	3010A	142731
MB 860-142731/22-D	Method Blank	Dissolved	Water	3010A	142731
LCS 860-142731/23-D	Lab Control Sample	Dissolved	Water	3010A	142731
LCSD 860-142731/24-D	Lab Control Sample Dup	Dissolved	Water	3010A	142731
880-38528-1 MS	Raw Produced	Dissolved	Water	3010A	142731
880-38528-1 MSD	Raw Produced	Dissolved	Water	3010A	142731

Analysis Batch: 148827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Dissolved	Water	6010D	148652
880-38528-1	Raw Produced	Dissolved	Water	6010D	148652
MB 860-142731/22-D	Method Blank	Dissolved	Water	6010D	148652
LCS 860-142731/23-D	Lab Control Sample	Dissolved	Water	6010D	148652
LCSD 860-142731/24-D	Lab Control Sample Dup	Dissolved	Water	6010D	148652
880-38528-1 MS	Raw Produced	Dissolved	Water	6010D	148652
880-38528-1 MSD	Raw Produced	Dissolved	Water	6010D	148652

Prep Batch: 647099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	3010A	
MB 160-647099/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-647099/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 650329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	6020B	647099
MB 160-647099/1-A	Method Blank	Total/NA	Water	6020B	647099
LCS 160-647099/2-A	Lab Control Sample	Total/NA	Water	6020B	647099

General Chemistry

Analysis Batch: 138272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SM4500 S2 H	

Analysis Batch: 142519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	180.1	
MB 860-142519/3	Method Blank	Total/NA	Water	180.1	
LCS 860-142519/5	Lab Control Sample	Total/NA	Water	180.1	
LCSD 860-142519/6	Lab Control Sample Dup	Total/NA	Water	180.1	
LLCS 860-142519/4	Lab Control Sample	Total/NA	Water	180.1	

Analysis Batch: 142528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	360.1	

Analysis Batch: 142587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SM 3500 CR B	
MB 860-142587/3	Method Blank	Total/NA	Water	SM 3500 CR B	

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QC Association Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

General Chemistry (Continued)

Analysis Batch: 142587 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-142587/4	Lab Control Sample	Total/NA	Water	SM 3500 CR B	
LCSD 860-142587/5	Lab Control Sample Dup	Total/NA	Water	SM 3500 CR B	

Analysis Batch: 142599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SM 5540C	
MB 860-142599/3	Method Blank	Total/NA	Water	SM 5540C	
LCS 860-142599/4	Lab Control Sample	Total/NA	Water	SM 5540C	

Prep Batch: 142713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	9012B	
MB 860-142713/30-A	Method Blank	Total/NA	Water	9012B	
MB 860-142713/4-A	Method Blank	Total/NA	Water	9012B	
LCS 860-142713/5-A	Lab Control Sample	Total/NA	Water	9012B	
LCSD 860-142713/32-A	Lab Control Sample Dup	Total/NA	Water	9012B	
LLCS 860-142713/6-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 142852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SM 4500 S2 D	
MB 860-142852/3	Method Blank	Total/NA	Water	SM 4500 S2 D	
LCS 860-142852/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 D	
LCSD 860-142852/5	Lab Control Sample Dup	Total/NA	Water	SM 4500 S2 D	

Analysis Batch: 143080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	9012B	142713
MB 860-142713/30-A	Method Blank	Total/NA	Water	9012B	142713
MB 860-142713/4-A	Method Blank	Total/NA	Water	9012B	142713
LCS 860-142713/5-A	Lab Control Sample	Total/NA	Water	9012B	142713
LCSD 860-142713/32-A	Lab Control Sample Dup	Total/NA	Water	9012B	142713
LLCS 860-142713/6-A	Lab Control Sample	Total/NA	Water	9012B	142713

Analysis Batch: 143260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SM 2540C	
MB 860-143260/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-143260/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-143260/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
LLCS 860-143260/26	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 143275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SM 2540D	
MB 860-143275/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 860-143275/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 860-143275/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	

Eurofins Midland

QC Association Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

General Chemistry

Analysis Batch: 144137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SM 3500	

Analysis Batch: 144250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8146	
MB 860-144250/3	Method Blank	Total/NA	Water	8146	
LCS 860-144250/4	Lab Control Sample	Total/NA	Water	8146	
LCSD 860-144250/5	Lab Control Sample Dup	Total/NA	Water	8146	

Analysis Batch: 144279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SM 2320B	
MB 860-144279/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-144279/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-144279/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 146283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	1664B	
MB 860-146283/1	Method Blank	Total/NA	Water	1664B	
LCS 860-146283/2	Lab Control Sample	Total/NA	Water	1664B	
LCSD 860-146283/3	Lab Control Sample Dup	Total/NA	Water	1664B	

Analysis Batch: 146661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	8000	
MB 860-146661/3	Method Blank	Total/NA	Water	8000	
LCS 860-146661/4	Lab Control Sample	Total/NA	Water	8000	

Analysis Batch: 148017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	350.1	
MB 860-148017/68	Method Blank	Total/NA	Water	350.1	
LCS 860-148017/69	Lab Control Sample	Total/NA	Water	350.1	
LCSD 860-148017/70	Lab Control Sample Dup	Total/NA	Water	350.1	

Analysis Batch: 148144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SM 2510B	
LCS 860-148144/2	Lab Control Sample	Total/NA	Water	SM 2510B	
LCSD 860-148144/3	Lab Control Sample Dup	Total/NA	Water	SM 2510B	
LLCS 860-148144/4	Lab Control Sample	Total/NA	Water	SM 2510B	

Analysis Batch: 148145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 659665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	SM 5310B	
MB 400-659665/52	Method Blank	Total/NA	Water	SM 5310B	

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QC Association Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

General Chemistry (Continued)

Analysis Batch: 659665 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 400-659665/53	Lab Control Sample	Total/NA	Water	SM 5310B	
LCSD 400-659665/54	Lab Control Sample Dup	Total/NA	Water	SM 5310B	
MRL 400-659665/6	Lab Control Sample	Total/NA	Water	SM 5310B	

Analysis Batch: 659666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Dissolved	Water	SM 5310B	659673
MB 400-659673/1-A	Method Blank	Dissolved	Water	SM 5310B	659673
LCS 400-659673/2-A	Lab Control Sample	Dissolved	Water	SM 5310B	659673
LCSD 400-659673/3-A	Lab Control Sample Dup	Dissolved	Water	SM 5310B	659673
MRL 400-659666/6	Lab Control Sample	Dissolved	Water	SM 5310B	

Filtration Batch: 659673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Dissolved	Water	FILTRATION	
MB 400-659673/1-A	Method Blank	Dissolved	Water	FILTRATION	
LCS 400-659673/2-A	Lab Control Sample	Dissolved	Water	FILTRATION	
LCSD 400-659673/3-A	Lab Control Sample Dup	Dissolved	Water	FILTRATION	

Prep Batch: 823765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	Carbon Trap	
MB 680-823765/1-A	Method Blank	Total/NA	Water	Carbon Trap	
LCS 680-823765/2-A	Lab Control Sample	Total/NA	Water	Carbon Trap	

Analysis Batch: 823796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	9020B	823765
MB 680-823765/1-A	Method Blank	Total/NA	Water	9020B	823765
LCS 680-823765/2-A	Lab Control Sample	Total/NA	Water	9020B	823765

Rad

Prep Batch: 646186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	Fill_Geo-21	
MB 160-646186/1-A	Method Blank	Total/NA	Water	Fill_Geo-21	
LCS 160-646186/2-A	Lab Control Sample	Total/NA	Water	Fill_Geo-21	

Prep Batch: 646341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	PrecSep-7	
MB 160-646341/1-A	Method Blank	Total/NA	Water	PrecSep-7	
LCS 160-646341/2-A	Lab Control Sample	Total/NA	Water	PrecSep-7	

Prep Batch: 646710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	PrecSep-21	
MB 160-646710/1-A	Method Blank	Total/NA	Water	PrecSep-21	
LCS 160-646710/2-A	Lab Control Sample	Total/NA	Water	PrecSep-21	

Eurofins Midland

QC Association Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Rad

Prep Batch: 646711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	PrecSep_0	
MB 160-646711/1-A	Method Blank	Total/NA	Water	PrecSep_0	
LCS 160-646711/2-A	Lab Control Sample	Total/NA	Water	PrecSep_0	

Prep Batch: 646914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-38528-1	Raw Produced	Total/NA	Water	Evaporation	
MB 160-646914/1-A	Method Blank	Total/NA	Water	Evaporation	
LCS 160-646914/2-A	Lab Control Sample	Total/NA	Water	Evaporation	
LCSB 160-646914/3-A	Lab Control Sample	Total/NA	Water	Evaporation	

Lab Chronicle

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		5	5 mL	5 mL	142954	01/31/24 13:42	NA	EET HOU
Total/NA	Prep	3511			55.9 mL	2.00 mL	143347	02/01/24 16:11	DR	EET HOU
Total/NA	Analysis	8270D SIM		10	1 mL	1 mL	143428	02/02/24 15:23	LPL	EET HOU
Total/NA	Prep	3510C			250 mL	1.00 mL	143128	01/31/24 16:54	DR	EET HOU
Total/NA	Analysis	8270E LL		10	1 mL	1 mL	143536	02/03/24 00:43	PXS	EET HOU
Total/NA	Prep	Organotin			1139.6 mL	1 mL	405719	01/31/24 08:20	UWEZ	EET CAL 4
Total/NA	Analysis	Organotins SIM		10	1 mL	1 mL	406749	02/01/24 16:40	ULLI	EET CAL 4
Total/NA	Analysis	8015 NM		1			130308	01/29/24 12:12	ELJ	EET HOU
Total/NA	Prep	8015NM Aq Prep			29.2 mL	3 mL	142559	01/29/24 07:37	TH	EET HOU
Total/NA	Analysis	8015B NM		1			142550	01/29/24 12:12	TH	EET HOU
Total/NA	Prep	3510C			1000 mL	1 mL	143280	02/01/24 12:24	BH	EET HOU
Total/NA	Analysis	8081B_LL		1			143426	02/02/24 13:57	WP	EET HOU
Total/NA	Prep	3510C			1000 mL	1 mL	143280	02/01/24 12:24	BH	EET HOU
Total/NA	Analysis	8082A		1			143420	02/02/24 13:32	WP	EET HOU
Total/NA	Prep	3511			49.9 mL	4 mL	142589	01/29/24 09:51	JN	EET HOU
Total/NA	Analysis	8151A		1			142760	01/30/24 17:43	WP	EET HOU
Total/NA	Prep	3510C			1010 mL	1.0 mL	458082	01/28/24 21:50	CBY	EET PIT
Total/NA	Analysis	EPA 8141B		1	1 mL	1 mL	458212	01/31/24 00:04	SMW	EET PIT
Total/NA	Analysis	300.0		100			143493	02/03/24 04:34	WP	EET HOU
Total/NA	Analysis	300.0		100			143494	02/03/24 04:34	WP	EET HOU
Total/NA	Analysis	300.0		100			143835	02/06/24 06:52	RBNS	EET HOU
Total/NA	Analysis	300.0	DL	200			144041	02/06/24 14:58	WP	EET HOU
Total/NA	Analysis	300.0		100			145833	02/20/24 03:46	WP	EET HOU
Total/NA	Prep	CWA_Prep			1000 mL	10 mL	142666	01/29/24 15:49	DR	EET HOU
Total/NA	Analysis	632		100			146224	02/21/24 02:12	YG	EET HOU
Total/NA	Prep	8015 VFA			1 mL	1 mL	468290	01/30/24 17:21	GM5C	ELLE
Total/NA	Analysis	8015D VFA		1	1 mL	1 mL	468367	01/31/24 13:56	UHEW	ELLE
Total/NA	Prep	8015 VFA			1 mL	1 mL	468290	01/30/24 17:21	GM5C	ELLE
Total/NA	Analysis	8015D VFA		1	1 mL	1 mL	468365	01/31/24 13:36	UHEW	ELLE
Total/NA	Prep	8330-Prep			500 mL	10 mL	468013	01/30/24 10:37	LJG2	ELLE
Total/NA	Analysis	8330B		1			471494	02/08/24 03:44	GM5C	ELLE
Total/NA	Analysis	VFA - HPLC		1			145354	02/10/24 03:57	YG	EET HOU
Total/NA	Prep	SPE			100 mL	1 mL	468437	01/31/24 06:46	M4QQ	ELLE
Total/NA	Analysis	537 IDA		1			469600	02/02/24 18:38	DQV6	ELLE
Total/NA	Prep	6850 Prep			10 mL	10 mL	468684	01/31/24 13:12	VVE5	ELLE
Total/NA	Analysis	SW846 6850		10	1 mL	1 mL	469061	02/01/24 11:16	UAD3	ELLE
Total/NA	Prep	8290A			573.2 mL	20 uL	474882	02/20/24 03:36	UDPW	ELLE
Total/NA	Analysis	8290A		1	20 uL	20 uL	476547	02/24/24 13:20	TJK2	ELLE
Dissolved	Filtration	Filtration			250 mL	250 mL	142731	01/29/24 08:00	AGR	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	148652	03/07/24 11:00	MD	EET HOU
Dissolved	Analysis	6010D		50			148827	03/07/24 17:24	JDM	EET HOU

Eurofins Midland

Lab Chronicle

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	Filtration			250 mL	250 mL	142731	01/29/24 08:00	AGR	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	148652	03/07/24 11:00	MD	EET HOU
Dissolved	Analysis	6010D		500			148827	03/07/24 17:42	JDM	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	143032	01/31/24 10:30	MD	EET HOU
Total/NA	Analysis	6010D		50			143222	01/31/24 20:37	JDM	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	143032	01/31/24 10:30	MD	EET HOU
Total/NA	Analysis	6010D		500			143222	01/31/24 20:47	JDM	EET HOU
Total/NA	Prep	3010A			1 mL	50 mL	142814	01/30/24 11:00	MD	EET HOU
Total/NA	Analysis	6020A		1			143074	01/31/24 12:37	DP	EET HOU
Dissolved	Filtration	Filtration			250 mL	250 mL	142731	01/29/24 08:00	AGR	EET HOU
Dissolved	Prep	3010A			50 mL	50 mL	142784	01/30/24 09:30	MD	EET HOU
Dissolved	Analysis	6020B		100			143084	01/31/24 12:58	DP	EET HOU
Dissolved	Filtration	Filtration			250 mL	250 mL	142731	01/29/24 08:00	AGR	EET HOU
Dissolved	Prep	3010A			1 mL	50 mL	144617	02/09/24 10:30	MD	EET HOU
Dissolved	Analysis	6020B		1			145320	02/14/24 13:07	DP	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	142784	01/30/24 09:30	MD	EET HOU
Total/NA	Analysis	6020B		100			143084	01/31/24 13:19	DP	EET HOU
Total/NA	Analysis	6020B		1			143075	01/31/24 12:37	DP	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	647099	02/06/24 12:51	LKP	EET SL
Total/NA	Analysis	6020B		20			650329	02/08/24 12:09	CGB	EET SL
Total/NA	Analysis	SM 2340B		1			144035	02/06/24 12:48	DP	EET HOU
Total/NA	Analysis	1664B		1	1000 mL	1000 mL	146283	02/21/24 10:19	TB	EET HOU
Total/NA	Analysis	180.1		1			142519	01/28/24 08:30	PSC	EET HOU
Total/NA	Analysis	350.1		50	10 mL	10 mL	148017	03/03/24 18:54	ADL	EET HOU
Total/NA	Analysis	360.1		1			142528	01/28/24 16:36	ALL	EET HOU
Total/NA	Analysis	8000		20	2 mL	2 mL	146661	02/22/24 18:32	HN	EET HOU
Total/NA	Analysis	8146		10	25 mL	25 mL	144250	02/07/24 12:19	SCI	EET HOU
Total/NA	Prep	9012B			6 mL	6 mL	142713	01/29/24 19:37	LD	EET HOU
Total/NA	Analysis	9012B		1			143080	01/30/24 17:27	AA	EET HOU
Total/NA	Prep	Carbon Trap			1.0 mL	100 mL	823765	02/20/24 06:30	CLJ	EET SAV
Total/NA	Analysis	9020B		1			823796	02/21/24 10:57	CLJ	EET SAV
Total/NA	Analysis	SM 2320B		1			144279	02/07/24 13:10	KEG	EET HOU
Total/NA	Analysis	SM 2510B		1			148144	03/04/24 15:21	SCI	EET HOU
Total/NA	Analysis	SM 2540C		1	1 mL	200 mL	143260	02/01/24 11:19	GD	EET HOU
Total/NA	Analysis	SM 2540D		1	550 mL	1000 mL	143275	02/01/24 11:54	GD	EET HOU
Total/NA	Analysis	SM 3500		1			144137	03/04/24 09:14	MC	EET HOU
Total/NA	Analysis	SM 3500 CR B		1	25 mL	25 mL	142587	01/29/24 09:49	SCI	EET HOU
Total/NA	Analysis	SM 4500 H+ B		1			148145	03/04/24 15:21	MC	EET HOU
Total/NA	Analysis	SM 4500 S2 D		1	7.5 mL	7.5 mL	142852	01/30/24 13:21	SCI	EET HOU
Dissolved	Filtration	FILTRATION			1.0 mL	1.0 mL	659673	02/02/24 14:30	DEK	EET PEN
Dissolved	Analysis	SM 5310B		1			659666	02/03/24 00:13	DEK	EET PEN
Total/NA	Analysis	SM 5310B		2	50 mL	50 mL	659665	02/03/24 08:41	DEK	EET PEN
Total/NA	Analysis	SM 5540C		1	100 mL	100 mL	142599	01/27/24 18:27	JM	EET HOU

Eurofins Midland

Lab Chronicle

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Client Sample ID: Raw Produced

Lab Sample ID: 880-38528-1

Date Collected: 01/25/24 00:00

Matrix: Water

Date Received: 01/26/24 12:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM4500 S2 H		1			138272	03/08/24 12:08	MC	EET HOU
Total/NA	Prep	Evaporation			0.3991 mL	1.0 g	646914	02/05/24 10:15	ASG	EET SL
Total/NA	Analysis	900.0		1			647476	02/08/24 18:34	FLC	EET SL
Total/NA	Prep	Fill_Geo-21			1000 mL	1.0 g	646186	01/30/24 12:50	SAC	EET SL
Total/NA	Analysis	901.1		1			648902	02/20/24 20:47	EMH	EET SL
Total/NA	Prep	PrecSep-21			495.54 mL	1.0 g	646710	02/02/24 09:54	KAC	EET SL
Total/NA	Analysis	903.0		1	1.0 mL	1.0 mL	649794	02/26/24 12:19	SCB	EET SL
Total/NA	Prep	PrecSep_0			495.54 mL	1.0 g	646711	02/02/24 09:58	KAC	EET SL
Total/NA	Analysis	904.0		1			648422	02/15/24 11:24	FLC	EET SL
Total/NA	Prep	PrecSep-7			260.73 mL	1.0 g	646341	01/31/24 09:16	KAC	EET SL
Total/NA	Analysis	905		1			647894	02/12/24 16:18	SCB	EET SL

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins J = Eurofins J3 Resources, 6110 W 34th St, Houston, TX 77092

Accreditation/Certification Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Laboratory: Eurofins Calscience

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arizona	State	AZ0830	11-16-24
California	Los Angeles County Sanitation Districts	10109	08-01-24
California	State	3082	07-31-24
Kansas	NELAP	E-10420	08-01-24
Nevada	State	CA00111	07-31-24
Oregon	NELAP	4175	02-02-24
USDA	US Federal Programs	P330-22-00059	06-08-26
Washington	State	C916-18	10-11-24

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	11-30-24
A2LA	ISO/IEC 17025	0001.01	11-30-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-24
Alaska (UST)	State	17-027	02-28-24
Arizona	State	AZ0780	03-11-24
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-24
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Florida	NELAP	E87997	06-30-24
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-24
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	11-30-24
Kentucky (WW)	State	KY90088	12-31-23 *
Louisiana (All)	NELAP	02055	06-30-24
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-24
Massachusetts	State	M-PA009	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Midland

Accreditation/Certification Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-24
New York	NELAP	10670	04-01-24
North Carolina (DW)	State	42705	07-31-24
North Carolina (VW/SW)	State	521	12-31-24
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-28-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-24 *
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-24
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-24
Wyoming (UST)	A2LA	0001.01	11-30-24

Laboratory: Eurofins Pensacola

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alabama	State	40150	06-30-24
ANAB	ISO/IEC 17025	L2471	02-22-26
Arkansas DEQ	State	88-00689	08-01-24
California	State	2510	06-30-24
Florida	NELAP	E81010	06-30-24
Georgia	State	E81010(FL)	06-30-24
Illinois	NELAP	200041	10-09-24
Kansas	NELAP	E-10253	10-31-24
Kentucky (UST)	State	53	06-30-24
Louisiana (All)	NELAP	30976	06-30-24
Louisiana (DW)	State	LA017	12-31-24
North Carolina (VW/SW)	State	314	12-31-24
Oklahoma	NELAP	9810	08-31-24
Pennsylvania	NELAP	68-00467	01-31-25
South Carolina	State	96026	06-30-24
Tennessee	State	TN02907	06-30-24
Texas	NELAP	T104704286	09-30-24
US Fish & Wildlife	US Federal Programs	A22340	06-30-24
USDA	US Federal Programs	FLGNV23001	01-08-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Midland

Accreditation/Certification Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Laboratory: Eurofins Pensacola (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USDA	US Federal Programs	P330-21-00056	05-17-24
Virginia	NELAP	460166	06-14-24
West Virginia DEP	State	136	03-31-24

Laboratory: Eurofins Pittsburgh

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	19-033-0	06-27-24
California	State	2891	04-30-24
Connecticut	State	PH-0688	09-30-24
Florida	NELAP	E871008	06-30-24
Georgia	State	PA 02-00416	04-30-24
Illinois	NELAP	004375	06-30-24
Kansas	NELAP	E-10350	01-31-24
Kentucky (UST)	State	162013	04-30-23 *
Kentucky (WW)	State	KY98043	12-31-23 *
Louisiana	NELAP	04041	06-30-22 *
Louisiana (All)	NELAP	04041	06-30-24
Maine	State	PA00164	03-06-24
Minnesota	NELAP	042-999-482	12-31-24
New Hampshire	NELAP	2030	04-04-24
New Jersey	NELAP	PA005	06-30-24
New York	NELAP	11182	04-01-24
North Carolina (WW/SW)	State	434	12-31-24
North Dakota	State	R-227	04-30-24
Oregon	NELAP	PA-2151	02-06-24
Pennsylvania	NELAP	02-00416	04-30-24
Rhode Island	State	LAO00362	12-31-22 *
South Carolina	State	89014	04-30-25
Texas	NELAP	T104704528	03-31-24
US Fish & Wildlife	US Federal Programs	058448	03-31-24
USDA	US Federal Programs	P330-16-00211	04-11-26
Utah	NELAP	PA001462019-8	05-31-24
Virginia	NELAP	10043	07-14-24
West Virginia DEP	State	142	01-31-25
Wisconsin	State	998027800	08-31-24

Laboratory: Eurofins Savannah

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
	AFCEE	SAVLAB	
Alabama	State	41450	06-30-24
ANAB	Dept. of Defense ELAP	L2463	09-22-24
Arkansas (DW)	State	GA00006	06-30-24
California	State	2939	06-30-24
Florida	NELAP	E87052	06-30-24
Georgia	State	E87052	06-30-24
Georgia (DW)	State	803	06-30-24
Guam	State	19-007R	04-17-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Midland

Accreditation/Certification Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Laboratory: Eurofins Savannah (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Hawaii	State	<cert No.>	06-30-24
Illinois	NELAP	200022	11-30-24
Indiana	State	C-GA-02	06-30-24
Iowa	State	353	07-01-25
Kentucky (UST)	State	NA	06-30-24
Louisiana	NELAP	30690	06-30-24
Louisiana (All)	NELAP	30690	06-30-24
Louisiana (DW)	State	LA009	12-31-24
Maine	State	GA00006	09-25-24
Maryland	State	250	12-31-24
Massachusetts	State	M-GA006	06-30-24
Michigan	State	9925	06-30-24
Mississippi	State	<cert No.>	06-30-24
Nebraska	State	NE-OS-7-04	06-30-24
New Jersey	NELAP	GA769	06-30-24
New Mexico	State	GA00006	06-30-24
North Carolina (DW)	State	13701	07-31-24
North Carolina (WW/SW)	State	269	12-31-24
Pennsylvania	NELAP	68-00474	06-30-24
Puerto Rico	State	GA00006	01-01-25
South Carolina	State	98001	06-30-24
Tennessee	State	TN02961	06-30-24
Texas	NELAP	T1047004185	11-30-24
Texas	TCEQ Water Supply	T104704185	06-30-24
USDA	US Federal Programs	P330-18-00313	09-03-24
Virginia	NELAP	460161	06-14-24
Wyoming	State	8TMS-L	06-30-24

Laboratory: Eurofins St. Louis

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	20-001	05-06-25
ANAB	Dept. of Defense ELAP	L2305	04-06-25
ANAB	Dept. of Energy	L2305.01	04-06-25
ANAB	ISO/IEC 17025	L2305	04-06-25
Arizona	State	AZ0813	12-08-24
California	Los Angeles County Sanitation Districts	10259	06-30-22 *
California	State	2886	06-30-24
Connecticut	State	PH-0241	03-31-25
Florida	NELAP	E87689	06-30-24
HI - RadChem Recognition	State	n/a	06-30-24
Illinois	NELAP	200023	11-30-24
Iowa	State	373	12-01-24
Kansas	NELAP	E-10236	10-31-24
Kentucky (DW)	State	KY90125	12-31-24
Kentucky (WW)	State	KY90125 (Permit KY0004049)	12-31-24
Louisiana	NELAP	04080	06-30-22 *
Louisiana (All)	NELAP	04080	06-30-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Midland

Accreditation/Certification Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Laboratory: Eurofins St. Louis (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Louisiana (DW)	State	LA011	12-31-24
Maryland	State	310	09-30-24
Massachusetts	State	M-MO054	06-30-24
MI - RadChem Recognition	State	9005	06-30-24
Missouri	State	780	06-30-25
Nevada	State	MO00054	07-31-24
New Jersey	NELAP	MO002	06-30-24
New Mexico	State	MO00054	06-30-24
New York	NELAP	11616	03-31-24
North Carolina (DW)	State	29700	07-31-24
North Dakota	State	R-207	06-30-24
Oklahoma	NELAP	9997	08-31-24
Oregon	NELAP	4157	09-01-24
Pennsylvania	NELAP	68-00540	02-28-24
South Carolina	State	85002001	06-30-24
Texas	NELAP	T104704193	07-31-24
US Fish & Wildlife	US Federal Programs	058448	07-31-24
USDA	US Federal Programs	P330-17-00028	05-18-26
Utah	NELAP	MO00054	07-31-24
Virginia	NELAP	10310	06-15-25
Washington	State	C592	08-30-24
West Virginia DEP	State	381	10-31-24

Method Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET HOU
8270E LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	EET HOU
Organotins SIM	Organotins (GC/MS SIM)	Lab SOP	EET CAL 4
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET HOU
8081B_LL	Organochlorine Pesticides (GC)	SW846	EET HOU
8082A	Polychlorinated Biphenyls (PCBs) (GC)	SW846	EET HOU
8151A	Herbicides (GC)	SW846	EET HOU
EPA 8141B	Organophosphorous Pesticides (GC)	SW846	EET PIT
300.0	Anions, Ion Chromatography	EPA	EET HOU
632	Carbamate and Urea Pesticides (HPLC)	EPA-01	EET HOU
8015D VFA	Volatile Fatty Acids - Direct Aqueous Injection (HPLC)	SW846	ELLE
8330B	Nitroaromatics and Nitramines (HPLC)	SW846	ELLE
VFA - HPLC	Volatile Fatty Acids (HPLC/UV)	Lab SOP	EET HOU
537 IDA	EPA 537 Isotope Dilution	EPA	ELLE
SW846 6850	Perchlorate by LC/MS or LC/MS/MS	SW846	ELLE
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	ELLE
6010D	Metals (ICP)	SW846	EET HOU
6020A	Rare Earth Metals (ICP/MS)	SW846	EET HOU
6020B	Metals (ICP/MS)	SW846	EET HOU
6020B	Metals (ICP/MS), Isotopic Uranium	SW846	EET SL
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	EET HOU
1664B	HEM and SGT-HEM	1664B	EET HOU
180.1	Turbidity, Nephelometric	EPA	EET HOU
350.1	Nitrogen, Ammonia	EPA	EET HOU
360.1	Oxygen, Dissolved	EPA	EET HOU
8000	COD	Hach	EET HOU
8146	Iron, Ferrous	Hach	EET HOU
9012B	Cyanide, Total and/or Amenable	SW846	EET HOU
9020B	Organic Halides, Total (TOX)	SW846	EET SAV
SM 2320B	Alkalinity	SM	EET HOU
SM 2510B	Conductivity, Specific Conductance	SM	EET HOU
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU
SM 2540D	Solids, Total Suspended (TSS)	SM	EET HOU
SM 3500	Iron, Ferric	SM	EET HOU
SM 3500 CR B	Chromium, Hexavalent	SM	EET HOU
SM 4500 H+ B	pH	SM	EET HOU
SM 4500 S2 D	Sulfide, Total	SM	EET HOU
SM 5310B	Organic Carbon, Dissolved (DOC)	SM	EET PEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET PEN
SM 5540C	Methylene Blue Active Substances (MBAS)	SM	EET HOU
SM4500 S2 H	Unionized Hydrogen Sulfide	SM	EET HOU
900.0	Gross Alpha and Gross Beta Radioactivity	EPA	EET SL
901.1	Radium-226 & Other Gamma Emitters (GS)	EPA	EET SL
903.0	Radium-226 (GFPC)	EPA	EET SL
904.0	Radium-228 (GFPC)	EPA	EET SL
905	Strontium-90 (GFPC)	EPA	EET SL
Subcontract	Asbestos	None	Eurofins J
3010A	Preparation, Total Metals	SW846	EET HOU
3010A	Preparation, Total Metals	SW846	EET SL
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET HOU
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET PIT

Eurofins Midland

Method Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Method	Method Description	Protocol	Laboratory
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU
6850 Prep	Perchlorate Water Prep	EPA	ELLE
8015 VFA	Volatile Fatty Acids - Water Prep	SW846	ELLE
8015NM Aq Prep	Microextraction	SW846	EET HOU
8290A	Separatory Funnel (Liquid-Liquid) Extraction of Dioxins and Furans	SW846	ELLE
8330-Prep	Solid-Phase Extraction (Explosives)	SW846	ELLE
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET HOU
Carbon Trap	Carbon Trap Preparation	EPA-17	EET SAV
CWA_Prep	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET HOU
Evaporation	Preparation, Evaporation	None	EET SL
Fill_Geo-21	Fill Geometry, 21-Day In-Growth	None	EET SL
Filtration	Sample Filtration	None	EET HOU
FILTRATION	Sample Filtration	None	EET PEN
Organotin	Extraction (Organotins)	WRC	EET CAL 4
PrecSep_0	Preparation, Precipitate Separation	None	EET SL
PrecSep-21	Preparation, Precipitate Separation (21-Day In-Growth)	None	EET SL
PrecSep-7	Preparation, Precipitate Separation (7-Day In-Growth)	None	EET SL
SPE	PFAS by SPE	Lab SOP	ELLE

Protocol References:

1664B = EPA-821-98-002

EPA = US Environmental Protection Agency

EPA-01 = "Methods For The Determination Of Nonconventional Pesticides In Municipal And Industrial Wastewater", EPA/821/R/92/002, April 1992.

EPA-17 = "Method 1650, Revision A, Adsorbable Organic Halides By Adsorption And Colorimetric Titration," EPA, February 1992

Hach = Hach Company

Lab SOP = Laboratory Standard Operating Procedure

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

WRC = WRC Notebook 11431-39, ICI America's Western Research Center May, 1989.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

EET PEN = Eurofins Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

EET PIT = Eurofins Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

EET SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Eurofins J = Eurofins J3 Resources, 6110 W 34th St, Houston, TX 77092

Sample Summary

Client: New Mexico State University
Project/Site: Water Quality Analysis

Job ID: 880-38528-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-38528-1	Raw Produced	Water	01/25/24 00:00	01/26/24 12:18

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Eurofins J3 Resources, Inc.
6110 W. 34th Street, Houston, Texas 77092
Phone: (713) 290-0221 Fax: (713) 290-0248



J3 Resources

Asbestos in Water by Transmission Electron Microscopy (TEM)
EPA/600/R-94/134 - (EPA 100.2)

John Builes
Eurofins XENCO, Midland
1211 W. Florida Ave.
Midland, TX 79701

Order #: 3521178
Project #: 88001781
Receipt Date/Time: 01-29-2024 8:00
Analysis Date: 02/05/2024
Report Date: 02/05/2024

Water Quality Analysis

Client Sample ID	Sample Collection Date/Time	Sample Filtration Date/Time	Aliquot Volume (mL)	Dilution Factor	Asbestos Structures (> 0.5 µm)	Asbestos Structures (> 10 µm)	Asbestos Type	Analytical Sensitivity	Asbestos Concentration	95% Confidence Limits (Lower - Upper)
*Raw Produced (880-38528-1)	1/25/24 8:00	1/29/24 10:15	1	1	0	0	None Detected	8.15	< 8.15	< 8.15 - 30.06 MFL

Analyst: Taylor Smylie


Scott M. Ward, Ph.D. Lab Director

This report relates only to the samples tested. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by Eurofins J3 Resources, Inc. (EJ3). All samples received in good condition and filtered within 48 hours of receipt unless otherwise noted. Only asbestos structures greater than 10µm are considered in calculating asbestos concentration in MFL. This report shall not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. mL = Milliliters; MFL = Million Fibers per Liter; N/A = Not Applicable
* - Indicates sample was received outside of holding time for method.

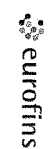
NVLAP Lab Code: 200525-0

TDSHS License: 30-0273

Client Information		Sampler <i>Himal, Delanka-Pedige</i>		Lab PM	Carrier Tracking No(s)		COC No:
Client Contact: <i>Pei Xu PhD</i>		Phone <i>575-6501873</i>		Builes John	State of Origin:		880-25914-9145 1
Company: <i>New Mexico State University</i>		PMSID		E-Mail <i>John Builes@et.eurofins.com</i>		Page	Page 1 of 3
Address <i>3035 S Espina Street Box 30001 MSC-3CE</i>		Due Date Requested		Analysis Requested			
City <i>Las Cruces</i>		TAT Requested (days):					
State Zip <i>NM 88003</i>		Compliance Project ☐ Yes ☒ No					
Phone <i>575-646-8570(Tel)</i>		PO #					
Email <i>pxu@nmsu.edu</i>		Advance Payment Required					
Project Name <i>Water Quality Analysis</i>		Project # <i>86006449</i>					
Site <i>Big Spring, TX</i>		SSON#					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (W=Water, S=soil, O=wastewater, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	
Raw Produced water		<i>01/26/24</i>	<i>8 am</i>	<i>G</i>	<i>Water</i>	☒	☒
Thermal Discharge		<i>01/26/24</i>	<i>8 am</i>	<i>G</i>	<i>Water</i>	☒	☒
Best treated water		<i>01/26/24</i>	<i>8 am</i>	<i>G</i>	<i>Water</i>	☒	☒
Generate		<i>01/26/24</i>	<i>8 am</i>	<i>G</i>	<i>Water</i>	☒	☒
0802102		Custody Seal				Special Instructions/Note	
DATE <i>01/26/2024</i>		SIGNATURE <i>[Signature]</i>				880-38528 Chain of Custody	
Possible Hazard Identification		☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological		☐ Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		☐ Return To Client ☒ Disposal By Lab ☐ Archive For ☐ Months	
Deliverable Requested I II III IV Other (specify)		Empty Kit Relinquished by		Special Instructions/QC Requirements			
Relinquished by		Date/Time	Date	Time	Method of Shipment		
Relinquished by <i>[Signature]</i>		<i>01/26/24</i>	<i>9 46 am</i>		<i>[Signature]</i>		
Relinquished by		Date/Time	Company	Received by	Date/Time	Company	
Relinquished by		Date/Time	Company	Received by	Date/Time	Company	
Custody Seal Intact ☒ Yes ☐ No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks		<i>3.5/3.7</i>	

1211 W Florida Ave
Midland TX 79701
Phone (432) 704-5440

Chain of Custody Record



E 1 TO P 1 Page 172

Client Information		Sampler <i>tt, mal, Delanka-Perlyge</i>	Lab PM Bulies John	Carrier Tracking No(s)	COC No 880-6013-819-1
Client Contact Pei Xu PhD	Phone 575-6501873	Email John.Bulies@eurofins.com	State of Origin	Page Page 1 of 3	
Company New Mexico State University		PWSID	Analysis Requested		
Address 3035 S Espina Street Box 30001 MSC-3CE		Due Date Requested			
City Las Cruces	State Zip NM 88003	TAT Requested (days)			
Phone 575-646-8570(Tel)	Compliance Project Δ Yes Δ No	PO #			
Email pxu@nmsu.edu	Advance Payment Required	WC #			
Project Name Water Quality Analysis	Project # 88001781	SSOW#			
Site <i>Big Spring, TX</i>					
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Other, A=Air)
Raw Produced Water		<i>01/26/2024</i>	<i>8 am</i>	<i>G</i>	<i>Water</i>
Treated Produced Water					<i>Water</i>
Groundwater					<i>Water</i>
Concentrate					<i>Water</i>
5202102					
Custody Seal		<i>01/26/2024</i>			
DATE					
SIGNATURE		<i>[Signature]</i>			
TEST America		eurofins Environment Testing TestAmerica			
2012075					
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
☐ Non-Hazard	☐ Flammable	☐ Skin Irritant	☐ Poison B	☒ Unknown	☐ Radiological
Deliverable Requested I II III IV Other (specify)		Special Instructions/QC Requirements			
Empty Kit Relinquished by		Date	Time	Method of Shipment	
Relinquished by	<i>[Signature]</i>	<i>01/26/24</i>	<i>9 40 am</i>	Received by	<i>[Signature]</i>
Relinquished by				Received by	
Relinquished by				Received by	
Custody Seals Intact	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.			
Δ Yes Δ No		<i>3.5/3.7</i>			

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ORIGIN ID:MAFA (432) 563-1800
SAMPLE RECEIVING
XENCO LABORATORIES-ODESSA
1211 W. FLORIDA AVE.

MIDLAND, TX 79701
UNITED STATES US

TO SHIPPING/RECEIVING

EUROFINS PITTSBURGH
301 ALPHA DRIVE
RIDC PARK

PITTSBURGH PA 15238 REF

(412) 963-7058 X 0000

BILL SENDER

SHIP DATE: 26JAN24
ACTWGT: 20.00 LB
CAD: 7354048/INET4700

PO INW DEPT



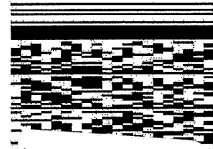
Uncorrected temp 4.8

Thermometer ID 4.8

CF 6.0 Initials Red

PT-WI-SR-001 effective 11/8/18

FedEx Express

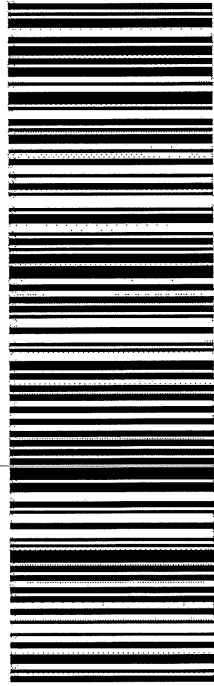


SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 7749 6708 5483

15238
PA-US
PIT

X0 AGCA



880-38528 Waybill

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, authorized de-precious meta
FedEx Service
ments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current
any cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

2. Fold the printed page along the horizontal line.

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

ORIGIN ID:AGCA (412) 963-7058
 SAMPLE RECEIVING
 EUROFINS NORTHEAST PITTSBURGH
 301 ALPHA DR

PITTSBURGH, PA 15238
 UNITED STATES US

SHIP DATE: 29JAN24
 ACTWGT: 15.00 LB
 CAD: 7354048/INET4700

.BILL SENDER

TO **EUROFINS CALSCIENCE, LLC**
EUROFINS CALSCIENCE, LLC
2841 DOW AVE

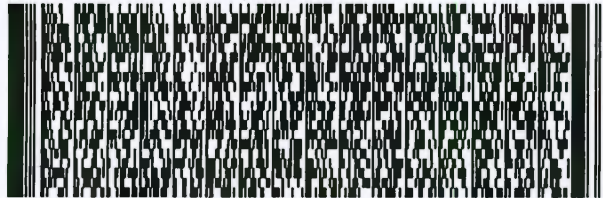
TUSTIN CA 92780

(714) 895-5494

REF:

INV:

DEPT:



FedEx
Express



241024811001us

TRK#
0201

7749 8910 8471

TUE - 30 JAN 10:30A
PRIORITY OVERNIGHT

NW DTHA

92780
CA-US SNA



583J5EC2B9AEC3

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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880-38528 Waybill



3/21/2024

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Chain of Custody Record



3/21/2024

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Environment Testing

1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

[illegible]

Login Sample Receipt Checklist

Client: New Mexico State University

Job Number: 880-38528-1

Login Number: 38528

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: New Mexico State University

Job Number: 880-38528-1

Login Number: 38528

List Number: 8

Creator: Khana, Piyush

List Source: Eurofins Calscience

List Creation: 01/30/24 11:35 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	Seal present with no number.
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: New Mexico State University

Job Number: 880-38528-1

Login Number: 38528

List Number: 5

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 01/27/24 01:40 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Missing 1 samples container
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: New Mexico State University

Job Number: 880-38528-1

Login Number: 38528

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC

List Number: 3

List Creation: 01/27/24 01:05 PM

Creator: Santiago, Nathaniel

Question	Answer	Comment
The cooler's custody seal is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temp acceptable, where thermal pres is required ($\leq 6^{\circ}\text{C}$, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace $> 6\text{mm}$ in diameter (none, if from WV)?	N/A	

Login Sample Receipt Checklist

Client: New Mexico State University

Job Number: 880-38528-1

Login Number: 38528

List Number: 2

Creator: Roberts, Alexis J

List Source: Eurofins Pensacola

List Creation: 01/27/24 11:57 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	9.8°C IR8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: New Mexico State University

Job Number: 880-38528-1

Login Number: 38528

List Number: 6

Creator: Watson, Debbie

List Source: Eurofins Pittsburgh

List Creation: 01/27/24 03:28 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	False	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: New Mexico State University

Job Number: 880-38528-1

Login Number: 38528

List Number: 4

Creator: Sims, Robert D

List Source: Eurofins Savannah

List Creation: 01/27/24 01:51 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: New Mexico State University

Job Number: 880-38528-1

Login Number: 38528

List Number: 7

Creator: Thornley, Richard W

List Source: Eurofins St. Louis

List Creation: 01/29/24 12:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	