ADDENDUM NO. 1

TO
CONTRACT DOCUMENTS
FOR
WEST ANTIOCH CREEK SILT REMOVAL
IN
ANTIOCH, CALIFORNIA
P.W. 201-5A

ISSUED
June 16, 2023

This Addendum No. 1 must be signed by the bidder and attached to the CONTRACT PROPOSAL PACKAGE for consideration by the City. The City reserves the right to disregard any proposal, which does not include this Addendum. The City may waive this requirement at its sole discretion.

SEE ATTACHED ADDENDUM ITEMS

Prepared By: _____
Ryker Brown, P.E.

BIDDER'S CERTIFICATION

I acknowledge receipt of this Addendum No. 1 and accept all conditions contained herein.

_____ _____

Bidder **By:**

Response to Planholder RFIs

The following questions were submitted and classified as RFI #1.

Question: The project specs state that there is a 2-year warranty but the performance bond information states 1 year. Is it a 2-year or 1-year warranty on this project?
Answer: One year

Question: Which permits are the contractor responsible for? Is there cost associated with these permits?
Answer: Refer to Specification 01060 Section 1.3.A.1. Contractor may inquire with listed agencies for associated costs.

Question: Bid Item 8 is for the Off haul of material to Kettleman Landfill. What classification or waste code should be assumed for this item?
Answer: This item is reserved for the potential scenario that excavated materials will not be accepted at local landfills and includes materials considered hazardous.

Question: Regarding bid item 8, the landfill bills disposal by the ton, can the units of Bid Item 8 be changed to Tons instead of CY?
Answer: The units will be changed to tons. See contract document modifications below.

Question: Is Bid Item 8 assumed to be an Adder to Bid item 6? Or is this an alternate price?
Answer: Bid Item 8 is separate from Bid Item 6.

Question: Is there any Environmental (Chemical) data on the existing soil to be removed and disposed of?
Answer: An unscientific, nondefinitive sampling of the area was completed. The data has been included as a part of this response.

Question: The plans show Sedimentation Filter Bags for filtering temporary dewatering. However, the specs seem to suggest a more robust water treatment system to deal with contaminated groundwater. Can you clarify what treatment methods are required for the dewatering scope for bidding purposes?
Answer: Sedimentation filter bags may be used for temporary dewatering. See contract document modification below.

Question: Will all water from the diversion and from within the excavation area be discharged to the downstream channel?
Answer: Yes

Question: Is there any access into the work area from the East side of the channel?
Answer: Refer to the access points and Work Area Limits shown in the Contract Drawings.

Question: Assuming we adhere to the requirements of the Exclusionary Fencing Note #3 from sheet C-2, can a temporary access route between the maintenance road and TCE be constructed to allow for equipment to move between the two areas for stockpiling material without driving onto the public right-of-way?

Answer: Yes but full structural slope restoration, fence restoration, and TCE restoration to existing conditions or better must occur after work is complete. Note there shall be no stockpiling of material on the access road.

Question: Is the channel tidally influenced?
Answer: Yes

Question: Please provide the anticipated flow rates (GPM or CFS) of the existing channel to dewater as I am unable to find this in the contract documents. This information is necessary to determine the size of the pumps necessary to handle the dewatering.
Answer: The Contractor shall determine the appropriate bypass system necessary to accomplish the work. See newly added specification section.

Question: Will the City be providing a biologist or is the contractor responsible for providing one? Is the cost of a biologist to be paid by the city or the contractor?
Answer: The City Biologist will be contracted directly by the City.

Question: The specifications state that we have 110 working days and that the work in water end date is 10-15-2023. Will we be allowed to work on the access road and the stockpile area after 10-15-23 if we are still within the 110 working day limit?
Answer: Yes.

Question: Regarding the above-mentioned project, Pg. TOC-iii of the Table of Contents for the Appendices as well as Section 02140 – Dewatering make reference to the CDFW 1600 Streambed Alteration Agreement provided in Appendix A. However, upon review of Appendix A, the CDFW agreement is not provided. Only the Army Corps permit and CVRWQCB 401 Water Quality Cert are provided in Appendix A. Please provide a copy of the CDFW 1600 Streambed Alteration Agreement.
Answer: CDFW 1600 Streambed Alteration Agreement is attached to this Addendum. Contractor is strongly encouraged to read all permit requirements.

Question: Who is responsible for survey? Pg. B-8, Section G states the Owner will provide survey but Page 01400-2 of Quality Control states the Contractor shall submit a Quality Assurance Program which includes construction surveying and staking.
Answer: Contractor shall provide any surveying and staking as necessary.

Question: Will the City provide a Qualified Biologist or is the contractor to include the costs of a biologist in its bid? There is conflicting language in the specifications.
Answer: See answer to question above.

Question: Line item 12 specifies 12 cubic yards of unaccepted Soils being hauled to Kettleman City. Has testing been done to determine this quantity and if so, is a copy of the report available to Bidders? Will the City require a separate price for additional material?
Answer: Definitive tests have not been conducted. Quantities greater than 12 cubic yards requiring disposal at Kettleman City will require a change order.

Question: The bid documents state that verification of excavation amounts will be by hauling manifest. The payment for this is based on cubic yards but hauling manifests are by the ton. What conversion rate will the City be using to determine quantities for payment on this item?
Answer: The units will be changed to tons. The units will be changed to tons. See contract document modifications below. This applies only to Bid Item 8.

Question: What is the depth of the water in the pond where a coffer dam is to be installed at station 0+80.
Answer: Exact depth is unknown. Assume six feet or less.

Question: Is there a specification for the coffer dam?
Answer: No. Cofferdam must meet permit requirements.

Addendum Item	Description
1-1	Section 01025 – Measurement and Payment, paragraph 1.3.I: REPLACE, “(PER CUBIC YARD)” with, “(PER TON)”.
1-2	Invitation to Bidders – Schedule of Bid Prices: REPLACE the Unit for Item 8,”CY” with, “TN”.
1-3	Section 02140 – Dewatering, paragraph 3.3.B: DELETE, “Contaminated groundwater shall be treated prior to disposal.” from the end of the paragraph.
1-4	Table of Contents – Technical Specifications, Division 1: ADD, “SECTION 01035 – Owner Provided Information”.

ATTACHMENT 1: California Department of Fish and Wildlife 1600 Streambed Alteration Agreement

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
BAY DELTA REGION
2825 CORDELIA ROAD, SUITE 100
FAIRFIELD, CA 94534

STREAMBED ALTERATION AGREEMENT
EPIMS-CCA-32699-R3
WEST ANTIOCH CREEK

CITY OF ANTIOCH
WEST ANTIOCH CREEK SILT REMOVAL PROJECT

This Streambed Alteration Agreement (Agreement) is entered into between the California Department of Fish and Wildlife (CDFW) and the City of Antioch (Permittee) as represented by Cornelius Johnson.

RECITALS

WHEREAS, pursuant to Fish and Game Code section 1602, Permittee notified CDFW on August 15, 2022, that Permittee intends to complete the project described herein.

WHEREAS, pursuant to Fish and Game Code section 1603, CDFW has determined that the project could substantially adversely affect existing fish or wildlife resources and has included measures in the Agreement necessary to protect those resources.

WHEREAS, Permittee has reviewed the Agreement and accepts its terms and conditions, including the measures to protect fish and wildlife resources.

NOW THEREFORE, Permittee agrees to complete the project in accordance with the Agreement.

PROJECT LOCATION

The project is located on West Antioch, tributary to the San Joaquin River, in the City of Antioch, County of Contra Costa, State of California. Latitude 38.014028, Longitude -121.82446. See Exhibit A – Project Location Map.

PROJECT DESCRIPTION

The project is limited to removal of accumulated material and sediment from Reach B of the West Antioch Creek (creek) between West 8th Street and West 4th Street, and installation of rock slope protection (RSP) at one location over the course of one work season. The project will remove approximately 3,000 cubic yards of accumulated debris, vegetation, and sediment, along 1,050 linear feet of the creek to expose the original engineered channel bottom at a maximum depth of 12 feet from baseline conditions. 25 cubic yards of RSP covering 0.005 acre of creek will be installed in ruderal vegetation below the top of bank. See Exhibit B for design plans and Exhibit C for project impacts.

Temporary cofferdams, dewatering pumps, and discharge piping will be implemented to dewater work areas and divert flow downstream. Cofferdams consisting of gravel-fill bags will be placed upstream to temporarily dewater the project area. Any residual flows will be pumped, treated for turbidity, and released directly downstream of the work area.

A temporary construction easement will be obtained from the adjacent property owner (located at Latitude 38.013001, Longitude -121.824874) to allow for staging and soil stockpiling. Equipment access to the site is available from 6th Street and 4th Street, and non-heavy equipment access is available from 10th Street.

Sediment and vegetation will be removed by excavation using heavy machinery, including excavators and front-end loaders, operated from the existing maintenance access adjacent to the western channel bank. Excavators will remove the sediment by reaching in from the top of bank. The sediment removal area and new low flow channel will be constructed so that it can be accessed from the existing road, and equipment will not need to enter the creek. The removed sediment will be stored on plastic sheets in the designated staging area, set out to dry, and later tested to determine the final off-site disposal location (see Exhibit D).

Vegetation on top of the creek bank will be mowed to provide access, as needed. No grubbing or ground disturbance will occur to the existing access road. After construction, all areas of bare soils or disturbed areas will be hydroseeded with a native seed mix and live plantings will be installed along the new channel side slopes.

PROJECT IMPACTS

Existing fish or wildlife resources the project could substantially adversely affect include:

Scientific Name	**Common Name**	**Status**
Amphibians		
Multiple species	Native amphibians	
Birds		
Rallus longirostris	California clapper rail	SE, FP, FE
Rallus obsoletus	California Ridgway's rail	SE, FP, FE
Sternula antillarum browni	California least tern	SE, FP, FE
Laterallus jamaicensis coturniculus	California black rail	ST, FP
Elanus Leucurus	White-tailed kite	FP
Athene cunicularia	Burrowing owl	SCC
Circus cyaneus	Northern harrier	SSC
Coturnicops noveboracensis	Yellow rail	SSC

Geothypis trichas sinuosa	Saltmarsh common yellowthroat	SSC
Lanius ludovicianus	Loggerhead shrike	SSC
Melospiza melodia maxillaris	Suisun song sparrow	SSC
Melospiza melodia pop. 1	Song sparrow (“Modesto” population)	SSC
Pogonichthys macrolepidotus	Sacramento Splittail	SSC
Multiple species	Native birds	
Fish		
Spirinchus thaleichthys	Longfin smelt	ST, FC
Acipenser medirostris pop. 1	Green sturgeon – southern DPS	FT
Oncorhynchus mykiss irideus pop. 11	Steelhead - Central Valley DPS	FT
Oncorhynchus tshawytscha	Chinook salmon	SSC
Archoplites interruptus	Sacramento perch	SSC
Pogonichthys macrolepidotus	Sacramento splittail	SSC
Multiple species	Native fish	
Invertebrates		
Multiple species	Native invertebrates	
Mammals		
Reithrodontomys raviventris	Salt-marsh harvest mouse	SE, FP, FE
Antrozous pallidus	Pallid bat	SSC
Castor canadensis	American beaver	
Multiple species	Native mammals	
Reptiles		
Thamnophis gigas	Giant garter snake	ST, FT
Emys marmorata	Western pond turtle	SSC

Multiple species	Native reptiles	
Plants		
Blepharizonia plumosa	Big tarplant	1B.1
Lilaeopsis masonii	Mason's Lilaeopsis	1B.1
Chloropyron molle ssp. molle	Soft salty bird's-beak	1B.2, FE
Lathyrus jepsonii var. jepsonii	Delta tule pea	1B.2
Symphyotrichum lentum	Suisun marsh aster	1B.2
Limosella australis	Delta mugwort	2B.1
Multiple species	Native vegetation	

Notes: FC = federal candidate species under the Federal Endangered Species Act (FESA); FE = federally endangered under FESA; FT = federally threatened under ESA; SE = state endangered under the California Endangered Species Act (CESA); SCE = state candidate for listing as endangered under CESA; SCT = state candidate for listing as threatened under CESA; SFP = state fully protected; SSC = state species of special concern; ST = state threatened under CESA. CNPS ranking system: 1B = plants rare, threatened, or endangered in California and elsewhere; 2B = plants rare, threatened or endangered in California, but common elsewhere.

The adverse effects the project could have on the fish or wildlife resources identified above include:

- Chronic change in channel morphology related to sediment removal
- Temporary increased turbidity and reduced water quality
- Temporary short-term release of contaminants incidental from construction
- Decline of channel habitat
- Disruption to nesting birds and other wildlife
- Disruption, injury, or direct take of terrestrial and aquatic species
- Dewatering and alteration of water velocity and flow
- Removal of approximately 3,000 cubic yards of sediment and vegetation
- Temporary impact to 0.63 acre of freshwater marsh vegetation
- Temporary impact to 0.10 acre of creek channel
- Permanent impact to 0.005 acre of creek channel

MEASURES TO PROTECT FISH AND WILDLIFE RESOURCES

1. Administrative Measures

Permittee shall meet each administrative requirement described below.

1.1. Documentation at Project Site. Permittee shall make the Agreement, any extensions and amendments to the Agreement, and all related notification materials and California Environmental Quality Act (CEQA) documents, readily available at the project site at all

times and shall be presented to CDFW personnel, or personnel from another state, federal, or local agency upon request.

1.2. Providing Agreement to Persons at Project Site. Permittee shall provide copies of the Agreement and any extensions and amendments to the Agreement to all persons who will be working on the project or on behalf of Permittee, including but not limited to contractors, subcontractors, inspectors, and monitors.

1.3. Notification of Conflicting Provisions. Permittee shall notify CDFW if Permittee determines or learns that a provision in the Agreement might conflict with a provision imposed on the project by another local, state, or federal agency. In that event, CDFW shall contact Permittee to resolve any conflict.

1.4. Consistency with Notification. All work shall be completed in accordance with the plans, figures, designs, and project description submitted with the project's Notification package, unless the project has been modified through mutual agreement between CDFW and the Permittee. Permittee agrees to notify CDFW of any modifications made to the project plans and documents that were submitted to CDFW on August 15, 2022. If Permittee wishes to modify the project described in this Agreement, CDFW shall first be notified in writing, and an Amendment or new Notification may be required.

1.5. Project Site Entry. Permittee agrees that CDFW personnel may enter the project site at any time to verify compliance with the Agreement.

1.6. Access to Property Not Owned by Permittee. This Agreement does not grant the Permittee authority to enter, use, or otherwise encroach upon the property rights of individuals, or organizations not party to this Agreement. The Permittee shall obtain written authorization from outside parties, in accordance with applicable laws, if access to property not owned by the Permittee is necessary.

1.7. Final 100% Design Plans. Permittee shall submit final 100% engineering design plans, stamped, and signed by a qualified licensed professional engineer, to CDFW for review and acceptance, no later than 30 working days prior to initiating construction activities under this Agreement. Once approved, these designs shall be attached as Exhibit B to this Agreement and fully incorporated herein by reference. An Amendment to this Agreement may be necessary if changes in project design occur.

1.8. Notification of Work Commencement/Completion to CDFW. Permittee shall notify CDFW at least 7 days prior to the initiation of construction and within 24 hours of the completion of construction. Initial notification shall include the name(s) and contact information of the person(s) overseeing the project site, as well as a project schedule that includes the start date, estimate end date, weekly workdays, and hours of operation. Permittee shall submit the notification by emailing the CDFW staff person listed in the Contact Information Section of this Agreement.

1.9. Unauthorized Take. This Agreement does not authorize the take, including incidental take, of any State or federally listed threatened or endangered species, or of species that are otherwise protected under Fish and Game Code. "Take" means "to hunt, pursue, catch, capture or kill or attempt to hunt, pursue, catch, capture, or kill" (Fish & G. Code, § 86). Permittee may elect to, as prescribed in the California and U.S. Endangered Species Acts, obtain take coverage for State and federally listed species prior to commencement of the

project. This includes State listed or Fully Protected Species, or any native plant species listed as rare under the Native Plant Protection Act (Fish and Game Code, § 1900 et seq.; Cal. Code Regs., tit. 14, § 670.2); any species that is listed or is a candidate for listing under the California Endangered Species Act (Fish and Game Code, § 2080 et seq.; Cal. Code Regs., tit. 14, §§ 670.2, 670.5); or any fully protected species (Fish and Game Code, §§ 3511, 4700, 5050, 5515). Liability for any take of such species remains the responsibility of Permittee for the duration of the project. Any unauthorized take of listed species may result in prosecution and nullification of this Agreement.

1.10. Additional Information. Prior to the commencement of project activities Permittee shall provide the following information to CDFW for written acceptance:

1.10.1. A sediment management plan outlining the delivery and/or disposal locations of excavated sediment. The delivery and/or disposal locations shall be in an upland location away from watercourses, streams, or any other water feature that may accumulate or transport project related sediment. If the delivery and/or disposal locations are owned by a party other than Permittee, then Permittee shall provide CDFW with written approval from the property owner accepting the sediment. The sediment management plan shall include truck logs referencing dates of delivery and volumes of daily delivery. The total cumulative volume of sediment disposed of and/or delivered as part of the project shall not exceed the approximate maximum estimated volume permitted for removal under this Agreement without prior approval from CDFW. The sediment management plan shall be included in its entirety as part of this Agreement as Exhibit D.

2. Avoidance and Minimization Measures

To avoid or minimize adverse impacts to fish and wildlife resources identified above, Permittee shall implement each measure listed below.

Work Periods

2.1. Seasonal Work Window. To minimize adverse impacts to fish and wildlife and their habitats, project activities within the channel shall be limited from **July 16 to October 15**. Installation of erosion control devices and site remediation activities are excluded from seasonal work period restrictions.

2.2. Daily Work Window. Permittee shall terminate all project activities covered under this Agreement **30 minutes** before sunset and shall not resume until **30 minutes** after sunrise. Permittee shall use the geographic area's sunrise and sunset times established by the U.S. Naval Observatory Astronomical Applications Department, which can be found at: Astronomical Applications (Navy.mil).

2.3. Work in Dry Weather Only. Work within the creek and associated riparian corridor shall be restricted to periods of dry weather. Precipitation forecasts and potential increases of creek flow shall be considered when planning construction activities. No work shall occur during precipitation events (i.e., 0.25-inches or more within a 24-hour period). Construction activities shall cease, all equipment and materials shall be removed from the channel, and all associated erosion control measures shall be in place at least **12 hours** prior to the onset of precipitation. Construction activities halted due to precipitation may resume when precipitation ceases, the National Weather Service 72-hour weather forecast indicates a

less than 30 percent chance of precipitation, and after a **dry-out period of 48 hours** after the conclusion of the precipitation event. The National Weather Service forecast can be found at: National Weather Service.

2.4. High Tide Restriction. No project activities shall occur within 50 feet of tidal marsh habitat for the two (2) hours before and after extreme high tides (6.5 feet or above as measured at the Benicia-Martinez Bridge), or where there is potential for tidal species to move to higher ground, particularly when adjacent marsh is flooded. Tide predictions can be found at: Tide Predictions - NOAA Tides & Currents.

2.5. Work Window Variance Requests. If Permittee needs more time to complete project activities, work may be authorized outside of the work period and extended on a weekly basis by CDFW. Permittee shall submit a written request for work period variance to the CDFW staff person listed in the Contact Information Section of this Agreement. The work period variance request shall: (1) describe the extent of the work already completed; (2) detail the activities that remain to be completed; (3) detail the time required to complete each of the remaining activities; and (4) provide photographs of both the current work completed and the proposed site for continued work. Work period variances are issued at the discretion of CDFW. CDFW will review the written request to work outside of the established work period and may require additional measures to protect fish and wildlife resources as a condition for granting the variance. Any such additional measures shall then be made part of this Agreement.

Biological Monitoring

2.6. Biological Personnel. At least **30 days** prior initiating biological surveys within the project areas, Permittee shall submit the names, qualifications, and resumes of all biological personnel involved in conducting survey and/or monitoring work to CDFW for review and written approval. Resumes shall include, at minimum: educational background, experience with focal species and description of experience with each focal species (e.g., tagging, handling, observational surveys, electrofishing, relocation, auditory surveys, etc.), including number of hours/days/years of experience per species, the project names of where this experience was earned accompanied by any related permit numbers, trainings/workshops, and certificates or related credentials. Include experience with different life stages of a species when applicable. Pre-construction surveys and project implementation shall not commence until the biological personnel have received written approval from CDFW. To expedite the review period of biological personnel assigned to the project, Permittee may elect to complete the Biologist Resume Form (Exhibit F) to accompany the provided resumes. Biological personnel are defined under this Agreement as follows:

2.6.1. A Qualified Biologist as an individual who shall have a minimum of five years of academic training and professional experience in biological sciences and related resource management activities with a minimum of two years conducting surveys for the special-status species listed in this Agreement potentially present within the project area.

2.6.2. A Qualified Botanist is an individual who shall have a minimum of five years of academic training and professional experience in biological sciences and related resource management activities focusing on rare or special-status plant species.

The Qualified Botanist shall have a minimum of two years of experience conducting field surveys for rare or special-status plant species in California and hold experience observing the species potentially present within the project area.

2.7. On-Site Education Program. Permittee shall conduct a pre-construction training program for all employees, contractors, or personnel working within the project site prior to performing any work. The program shall consist of an in-person presentation from the Qualified Biologist hosted at the project location. Digital hosting of the meeting shall not occur. The presentation shall include, at minimum, a discussion of the biology of the habitats and special-status species identified in this Agreement and those with potential to be present at the project site, which shall include a walkthrough. The Qualified Biologist shall also include, as part of the education program, information about the distribution and habitat needs of any special-status species that may be present, legal protections for those species, penalties for violations, and project-specific protective measures included in this Agreement. Interpretation shall be provided for non-English speaking employees, contractors, or personnel otherwise working on the project site, prior to their performing any work at the project site. Upon completion of the education program, employees, contractors, or personnel otherwise working on the project sites shall sign a form stating they attended the program and understand all protection measures, the sign-in sheet shall be submitted to CDFW with the Project Completion Report, and a copy shall be kept on the project site. A handout that summarizes the education program including images of special-status species shall also be distributed to all personnel working on the project. These forms shall be filed at the worksite offices and be available to CDFW upon request.

2.8. Biological Monitoring. A Qualified Biologist shall be onsite for the entirety of the project.

2.9. Environmentally Sensitive Areas Designation and Demarcation. Prior to the commencement of project activities, the Qualified Biologist(s) shall designate and demarcate all Environmentally Sensitive Areas (ESAs) within the project area that may not be disturbed by project-related activities or personnel. ESAs are defined as any area in which special status plant or wildlife, or sensitive natural communities occur. This includes, but is not limited to, wetlands, seasonal marsh, riparian areas active bird nests, etc. ESAs are to be protected in place and remain undisturbed during construction. ESAs shall be clearly demarcated and shall be installed under the supervision of the Qualified Biologist. ESA demarcation shall use the most applicable method for the resources to be avoided, such as silt fencing, flagging, or stakes with markers. No personnel and/or equipment are permitted to enter the designated-ESA areas. All ESA exclusion fencing, flagging, and/or staked boundaries shall be monitored and maintained daily throughout the course of the project by the Qualified Biologist.

2.10. Exclusionary Fencing System. An exclusionary fencing system shall be installed surrounding the western edge of the access road and in all other applicable sensitive areas as determined by the Qualified Biologist in other areas of the project site. The exclusionary fencing plan shall be submitted to CDFW for review and written acceptance at least **60 days** prior to the commencement of project activities. Once approved, this plan shall be attached as Exhibit F to this Agreement and fully incorporated herein by reference. The following criteria must be met:

- The fencing shall be standard silt fencing at least 42 inches in height as measured above the soil surface or be of an appropriate height for exclusion of wildlife that could

inhabit the project area. If the Permittee wishes to use an alternative system, a request must be made to CDFW and can only be employed with CDFW's written approval.

- Fencing shall be trenched six inches into the soil. The soil will then be compacted against both sides of the fence to prevent wildlife from gaining access underneath. The stakes will be placed on the upland side of the fence. No gaps or holes are permitted in the fencing system, except for pedestrian and vehicle entry points.
- The entry/exit points may be constructed in the fencing system for equipment and personnel, but the Qualified Biologist must ensure no wildlife is capable of entering the fenced off site via the gate. The gate structure must be flush to the ground with no holes or gaps (i.e., plywood gates with silt fencing flaps).
- Prior to the initiation of project activities, the fence shall be inspected daily by the Qualified Biologist for holes, gaps, or access points, which shall be repaired upon discovery. Prior to the initiation of project activities for the day, the area inside the fence shall also be inspected daily for trapped wildlife. If wildlife is discovered, the gates shall be opened and monitored until the wildlife has left the fenced area of its own volition, no work shall occur during this period. If the wildlife does not leave on its own, CDFW will be contacted before work may continue.
- If fencing becomes damaged, it will be immediately repaired upon detection and the Qualified Biologist shall stop work in the vicinity of the fencing, as needed, to ensure that no wildlife has entered the construction area.

2.11. Daily Clearance Surveys. Each day, prior to initiation of project activities, the Qualified Biologist shall thoroughly inspect the project work areas, staging/stockpiling area, and under and around all equipment and vehicles for any wildlife. If the Qualified Biologist determines that wildlife or sensitive species are not present within the work area, work may commence. If wildlife species are present, the wildlife shall be given a buffer and allowed to move out of the work area on their own volition. If the species does not move out of the area, relocations may occur only as specified in this Agreement.

2.12. General Cease Operations Authority. The Qualified Biologist shall have independent authority to stop any or all project activities if any special-status species enters the project area, if project activities pose imminent threat to fish and wildlife resources, or if project activities are out of compliance with the measures outlined in this Agreement. If a special-status species is observed within the project site, then all work shall halt and not continue until the wildlife leaves the area of its own volition or is relocated according to the terms of this Agreement.

2.13. Violation Reporting. If the Qualified Biologist witnesses a violation of this Agreement, they shall contact CDFW immediately. Permittee shall not enter into non-disclosure agreements with biological personnel or otherwise implement penalties or disincentives restricting direct communication with CDFW. Failure to consult immediately with CDFW on violations shall constitute grounds for CDFW to revoke the biological personnel's monitoring authority and require Permittee to stop work until other biological personnel have been approved.

Special-status Species Protections

2.14. Salt Marsh Harvest Mouse (SMHM). Measures pertaining to SMHM described below shall be followed to avoid impacts to the species.

2.14.1. Potential Habitat. Under this Agreement, potential habitat for SMHM shall include any salt marsh area, including bulrush and cattails, and non-tidal pickleweed habitat, diked seasonal wetlands with or without pickleweed, and adjacent areas where SMHM could disperse to if disturbed.

2.14.2. Qualified SMHM Biologist. A Qualified SMHM Biologist approved by CDFW, and the United States Fish and Wildlife Service (USFWS) shall be present on site at all times that work activities are being conducted in potential SMHM habitat, including refugia habitat. Minimum qualifications for a Qualified SMHM Biologist are a four-year college degree in wildlife biology or related field and have a minimum of 2 years of professional experience in conducting surveys and/or monitoring for SMHM. A Qualified SMHM Biologist shall document compliance with all SMHM related avoidance and minimization measures and shall stop project activities if any of the measures are not being adhered to.

2.14.3. Observation. If any SMHM individuals or nests are observed in any project area, all project activities shall cease within a 50-foot radius of the detection. The individual(s) shall be allowed to leave the area under its own volition before work is resumed.

2.14.4. Preconstruction Surveys. A Qualified SMHM Biologist shall identify and mark potential SMHM habitat, as listed above, at each site prior to the planned start of project activities. Prior to the initiation of work each day in potential SMHM habitat for all vegetation management work, ground or vegetation disturbance, operation of large equipment, grading, and prior to expanding the work area, a Qualified SMHM Biologist shall conduct a preconstruction survey of all potential SMHM habitat that may be directly or indirectly impacted by the day's activities. Rakes or similar hand-tools may be used to part vegetation and allow for more thorough inspection of dense vegetation.

2.14.5. Avoidance. Ground disturbance of potential SMHM habitat shall be avoided to the maximum extent feasible. All construction equipment and materials shall be staged on existing roadways or staging and areas away from potential SMHM habitats when not in use.

2.14.6. Vegetation Removal. Where potential SMHM habitat cannot be avoided, such as for excavation, access routes, or anywhere else that vegetation could be trampled or crushed by work activities, vegetation shall be removed to ground level from the ground disturbance work area. Any vegetation removal necessary in, or within 50 feet of, potential SMHM habitat shall be implemented according to the following protocol:

- Vegetation removal shall be conducted under the immediate supervision of a Qualified SMHM Biologist.
- No more than 3 workers shall conduct vegetation removal while being monitored by a single Qualified SMHM Biologist. Additional workers shall be allowed to perform vegetation removal as long as they are accompanied by additional Qualified SMHM Biologists.
- Workers clearing vegetation shall not be greater than 50 feet from a Qualified SMHM Biologist.

- Vegetation removal shall begin furthest from the largest contiguous potential SMHM habitat and proceed towards it.
- Vegetation shall initially be disturbed, allowing SMHM to passively move from the area of disturbance toward the area of largest contiguous potential SMHM habitat. Vegetation shall then be removed with non-mechanized hand-tools (e.g., grass whips, loppers, rakes, trowels, hoes, and/or shovels, etc.) to a height sufficient for a Qualified SMHM Biologist to examine the remaining vegetation and determine that no SMHM or their nests are present. Once a Qualified SMHM Biologist has determined that the remaining vegetation is clear of SMHM and their nests, mechanized hand-tools (e.g., walk-behind mowers, string trimmers, weedwhackers, etc.) may be utilized to remove the remaining vegetation to ground level. Vegetation removal in potential SMHM habitat shall only be conducted with a Qualified SMHM Biologist walking in front of the vegetation removal crew to confirm that SMHM are not in the vegetation removal path.
- Removed vegetation shall not be stockpiled within the work areas, exclusion zones, and/or near roads or staging areas due to risk of reoccupation of SMHM.

2.14.7. Temporary SMHM Exclusion Fencing. Immediately prior to equipment entry into each work area, the Qualified SMHM Biologist shall inspect the work and access areas to ensure that no SMHM are present. The Qualified SMHM Biologist shall walk in front of the equipment accessing the work site to ensure that no SMHM are impacted by equipment. Following vegetation removal, temporary exclusion fencing shall be installed at the discretion of the Qualified SMHM Biologist. Pickleweed shall be avoided to the extent practical. The SMHM exclusion fencing shall be made of a material that does not allow SMHM to climb or pass through. The SMHM exclusion fencing shall be a minimum above-ground height of at least 30 inches and at least 12 inches higher than any adjacent vegetation, and the bottom shall be buried to a depth of at least 4 inches so SMHM cannot crawl under the fence. Any supports for the SMHM exclusion fencing (e.g., t-posts) shall be placed on the inside of the project area. The final 5 feet of the SMHM exclusion fencing shall be angled to direct wildlife away from the road. A Qualified SMHM Biologist shall be on site during SMHM exclusion fencing installation and shall check the fencing alignment and installation to ensure no SMHM are present. The SMHM exclusion fencing shall be inspected daily and repaired immediately. Once the project work has been completed, the Qualified SMHM Biologist shall inspect the access areas to ensure that no SMHM are present and shall walk in front of the equipment leaving the work site to ensure that no SMHM are impacted by equipment.

2.15. Giant Gartersnake Observation and Avoidance (GGS). If a snake species of any kind is observed within the project site, then all project activities shall halt, and work shall not continue until the snake species can be identified by a Qualified Biologist. If GGS is discovered at any time within the project site and staging areas, then all project activities shall halt until CDFW has been notified and Permittee can demonstrate compliance with CESA to CDFW's satisfaction. If take of GGS is expected to occur as a result of project-related activities, then an Incidental Take Permit may be obtained from CDFW to avoid disruptions to project activities.

2.16. Rail Avoidance and Minimization. Measures pertaining to California black rail, California clapper rail, and California Ridgway's rail described below shall be followed to avoid impacts to these species (hereafter referred to collectively as "rails").

2.16.1. Potential Rail Habitat. Under this Agreement, potential rail habitat shall include any salt marshes, or anywhere rails have been, or could be, observed.

2.16.2. Qualified Rail Biologist. A Qualified Rail Biologist approved by CDFW and USFWS shall be present on site at all times that project activities are being conducted in potential rail habitat. Minimum qualifications for a Qualified Rail Biologist are a four-year college degree in wildlife biology or related field and have a minimum of 2 years of professional experience in conducting surveys and/or monitoring for rails. The Qualified Rail Biologist shall have knowledge of rail biology and vocalizations, and familiarity with all species of rail included in this Agreement and their nests. The Qualified Rail Biologist shall document compliance with all rail-related avoidance measures and shall stop project activities if any of the measures are not being adhered to.

2.16.3. Pre-construction Surveys. The Qualified Rail Biologist shall identify and mark suitable rail habitat within **14 days** prior to the planned start of project activities. Within **48 hours** of the commencement of project activities and immediately prior to the initiation of work each day, the Qualified Rail Biologist shall conduct focused, pre-construction surveys for rails in all areas containing or within 50 feet of potential rail habitat that may be directly or indirectly impacted by project activities.

2.16.4. Observation. If any rail individuals or nests are observed in any project area, all project activities shall cease within a 600-foot radius of the detection. The individual(s) shall be allowed to leave the area before work is resumed. If the individual(s) does not move on its own volition or a nest is observed, a Qualified Rail Biologist shall contact USFWS and CDFW for further guidance on how to proceed.

2.16.5. Nonbreeding Season. During the non-breeding season (September 1 to January 31), construction activities requiring entry by workers into potential rail habitat shall be conducted with a Qualified Rail Biologist present. If rails are observed within or near the work area during the non-breeding season, a minimum 300-foot no-disturbance buffer from the observation location shall be established until a Qualified Rail Biologist confirms that the rails have left the area.

2.16.6. Breeding Season. Every attempt shall be made to avoid construction activities within or immediately adjacent to potential rail habitat during the breeding season (February 1 to August 31). In addition:

- If construction activities within or immediately adjacent to potential rail habitat cannot be avoided during the breeding season, surveys shall be conducted to determine rail nesting locations, or rails shall be assumed to be nesting in all potential rail habitat. Survey methods for rails shall follow the USFWS *Site-Specific Protocol for Monitoring Marsh Birds*, available at: https://ecos.fws.gov/ServCat/DownloadFile/110223, which has been specially

approved by CDFW. Survey results shall be provided to CDFW prior to initiation of project activities.

- If no breeding rails are detected during protocol surveys, then project activities may proceed within or adjacent to potential rail habitat. A Qualified Rail Biologist shall be present for the duration of activities.
- If protocol surveys determine that rails are present in or immediately adjacent to the project areas, project activities may proceed beyond a 600-foot radius from each estimated detection location. Every attempt shall be made to not conduct work within each 600-foot radius from each estimated detection location. A Qualified Rail Biologist shall be stationed within 50 feet of the 600-foot no disturbance buffer for the duration of project activities.
- If rails are assumed to be present or protocol surveys determine that breeding rails are present, limited construction activities may be conducted during the breeding season, if necessary, between 300 and 600 feet of a detection location, with non-motorized hand tools only and implementation of the following:

i. Activities may only occur if there is a substantial non-habitat barrier (e.g., open water of a major slough channel, berms, roads) in between a project area and the detection location, or if a commercially available portable acoustic barrier panel is placed close to the noise source and between the work area and the detection location.

ii. A Qualified Rail biologist shall be present for the duration of activities.

iii. Activities shall be limited to signage installation where power tools are not required; removal of vegetation with non-mechanized hand tools such has grass whips, loppers, rakes, etc.; native plant harvesting and replanting; fencing installation; and earth moving with shovels, picks, or other hand tools.

iv. Qualified Rial Biologists shall have maps or GPS locations of the confirmed rail detection locations and shall proceed cautiously and minimize time spent in areas near where rails were detected.

- During the rail breeding season, project activities are prohibited within 300 feet of a rail detection location.
- If an alarmed rail or rail nest is detected, project activities shall cease, and workers shall leave the immediate area carefully and quickly. An alternate route shall be selected that avoids this area by at least 300 feet for 40 days, and the location of the sighting shall be recorded to inform future activities in the area.

2.17. Burrowing Owl (BUOW). Measures pertaining to BUOW described below shall be followed to avoid impacts to the species.

2.17.1. The BUOW breeding season is typically February 15 to September 15 near the project area. If project activities occur within the breeding season, BUOW preconstruction surveys shall be conducted according to the methodology described in the March 7, 2012 CDFW Staff Report on Burrowing Owl Mitigation at https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843&inline=true. Per the 2012 Staff Report, a minimum of four survey visits shall be conducted during

the BUOW breeding season. A minimum of three preconstruction surveys, at least three weeks apart, shall be conducted during the peak nesting period between April 15 and July 15, with at least one visit after June 15. Preconstruction surveys shall be conducted no more than 14 days prior to the start of construction work with a final preconstruction survey conducted within 24 hours prior to ground disturbance. If work is conducted in the non-breeding season (September 16 to February 14), conduct four survey visits spread evenly apart throughout the non-breeding season.

2.17.2. If BUOW surveys locate occupied burrows, avoidance and minimization measures must be developed and approved by CDFW prior to the start of construction according to the 2012 Staff Report on Burrowing Owl Mitigation.

2.17.3. If burrows become occupied during project activities, BUOW activity is discovered within 100 feet of the project activities, or passive relocation is necessary, work must halt immediately and may not continue until CDFW has been consulted and approves an avoidance, minimization, mitigation, monitoring, and reporting plan.

2.18. Western Pond Turtle (WPT). The Qualified Biologist shall conduct a reconnaissance-level survey for WPT individuals and potential nesting habitat **prior to April 1** (onset of WPT nesting season) and **48 hours** prior to the commencement of project activities. Potential nesting habitat is defined in this Agreement as upland loose soils, sands, sediment bars, grassy areas, or duff within 1,500 feet of a waterway where breeding or hibernation may occur, within the current or historic range of WPT. Surveys from previous years may be used as a guide but shall not be relied upon to determine whether habitat is present. If WPT or potential habitat (including breeding and hibernation habitat) are discovered on-site, the following conditions shall apply:

2.18.1. A Qualified Biologist shall be present each day to conduct pre-construction surveys prior to initiation of project activity for all ground-disturbing activities or activities in areas of potential nesting for WPT and to ensure avoidance of disturbance to WPT nesting habitat.

2.18.2. If WPT enters the project site all work shall cease immediately, and the individual(s) shall be allowed to leave the area on its own volition. If the individual(s) does not leave on its own volition, the Qualified Biologist may move said individual(s) to safe areas of potential habitat immediately downstream of the project. All relocation events must be reported to CDFW within 24 hours and be included in the Weekly Monitoring Report, pursuant to Measure 4.5.

2.18.3. All WPT handled by the Qualified Biologist shall be inspected for signs of fungal and/or bacterial shell disease. WPT shall not be moved out of their watershed of origin. If the Qualified Biologist determines or suspects WPT individuals are exhibiting signs of fungal and/or bacterial shell disease, said individuals shall not be moved, but instead quarantined and immediately reported to CDFW for further guidance.

2.18.4. No disking, ground disturbance, or chemical application shall occur in upland or riparian areas where potential habitat exists.

2.18.5. If potential nesting habitat will be impacted, the Qualified Biologist shall install exclusion fencing effective to prevent WPT from entering potential nesting habitat prior to the onset of WPT nesting season (April 1). The exclusion fencing shall be maintained daily for the duration of the project to keep WPT from entering and nesting in areas slated for disturbance. If Permittee cannot exclude potential nesting habitat prior to April 1, the Qualified Biologist shall oversee the hand excavation of potential nesting sites. If eggs, individuals, or hatchlings are discovered, the disturbed area will be returned to its previous state and all project activities shall cease. Permittee shall immediately contact CDFW by email seeking guidance and timelines for the recommencement of project activities.

2.19. Nesting Bird Surveys and Avoidance. Permittee is responsible for ensuring that the project does not result in any violation of the Migratory Bird Treaty Act or relevant Fish and Game Codes. If project activities will occur during nesting bird season (February 15 to September 15) the Qualified Biologist shall conduct a focused survey for active nests within **five days** prior to the initiation of project-related activities. Surveys shall be conducted in all potential habitat located at, and adjacent to, project work sites and in staging and storage areas. This includes ground surveys for applicable species, such as Saltmarsh common yellowthroat. The minimum survey radii surrounding the work area shall be the following: (1) 250 feet for non-raptors, and (2) 1,000 feet for raptors. Survey methodology shall be submitted to CDFW for approval at least **14 days** prior to the initiation of surveys. Survey results shall be submitted to CDFW prior to the commencement of project activities. If a lapse in project-related activities of **seven days** or longer occurs, another focused survey will be required before project activities can be reinitiated. If an active nest is found, Permittee shall consult with CDFW regarding appropriate action to comply with the Fish and Game Code of California. CDFW reserves the right to provide additional provisions to this Agreement designed to protect nesting birds.

2.19.1. Active Nests. The Qualified Biologist shall observe any identified active nests prior to the start of any construction-related activities to establish a behavioral baseline of the adults and any nestlings. Once work commences, all active nests shall be continuously monitored by the Qualified Biologist to detect any signs of disturbance and behavioral changes as a result of project activities. In addition to direct impacts, such as nest destruction (including seasonally used nests of migratory raptors), nesting birds might be affected by noise, vibration, odors and movement of workers or equipment. If signs of disturbance and behavioral changes are observed, the biological personnel responsible shall cease work causing that change and shall contact for guidance.

2.19.2. Active Nest Buffers. Active nest sites and protective buffer zones shall be designated as ESAs, where no project-related activities or personnel may enter. These designated areas shall be protected during project activities with the establishment of a fence barrier or flagging surrounding the nest site. The Qualified Biologist shall determine the necessary buffer, in consultation with CDFW, to protect nesting birds based on existing site conditions, such as construction activity and line of sight, and shall increase buffers if needed to provide sufficient protection of nesting birds and their natural behaviors. Buffers shall be approved in writing by CDFW prior to the continuation of project activities.

2.20. Special-status Plants. For all project activities with anticipated temporary or permanent impacts to vegetation, biological staff with experience with the local flora shall conduct surveys for any special-status plants with the potential to occur provided for in this Agreement (e.g., Delta tule pea, Suisun marsh aster, etc.), or any other species listed by the California Native Plant Society (CNPS), or found on the CNPS East Bay Chapter's Database of Rare, Unusual, and Significant Plants, **within the appropriate identification periods**, prior to commencement of project activities in accordance with CDFW's *Protocols for Surveying and Evaluating Impacts to Special-Status Native Plant Populations and Natural Communities*, dated March 20, 2018, and available at: Survey and Monitoring Protocols and Guidelines (CDFW.ca). If a special-status plant (or population of special-status plants) is discovered onsite, Permittee shall notify CDFW within **24 hours**. No activities with the potential to impact special-status plants shall occur until CDFW is notified and provides written concurrence for those activities to begin.

2.21. Special-status Species Sightings or Injuries. If Permittee encounters any species listed as Rare, Threatened, or Endangered pursuant to the CESA during the implementation of project activities, all work shall be immediately suspended and CDFW notified. Work may not reinitiate until Permittee has consulted with CDFW and can demonstrate compliance with CESA. The Qualified Biologist shall have the authority and responsibility to communicate directly to CDFW, without having to report first to the Permittee. If special-status species are injured or otherwise harmed during project activities, CDFW reserves the right to require a separate notification be submitted by Permittee in the event special-status species are discovered. This separate notification may require environmental documentation be developed and circulated for compliance under CEQA.

General Wildlife Protection and Avoidance Measures

2.22. Harassment of Animals. No project personnel or motorized equipment shall harass, herd, or drive at any wildlife. Project personnel and equipment shall not cause displacement of wildlife into roadways or open areas lacking cover from predators.

2.23. Allow Wildlife to Leave Unharmed. Permittee shall allow any wildlife encountered during the course of project activities to leave the project area unharmed and of their own accord. The only exception is for wildlife relocations that are specifically described in this Agreement. If any listed wildlife is encountered, the Permittee shall contact CDFW immediately for further direction.

2.24. Staging and Storage Areas. Staging and storage areas for equipment, and all project items shall be located outside of the creek channel and banks, in a dry upland location. Staging areas shall be within a paved or gravel-lined site. Permittee shall install erosion and sediment controls to prevent any sediment or pollutants from exiting the staging area. Vegetation disturbance shall be limited to the immediate staging footprint and limited to as few access pathways as necessary to complete the project. Equipment and materials shall not be stored within 50 feet of the creek unless it is on paved areas or within the established staging area. Temporary containment berms shall be constructed around all equipment and materials while stationary.

2.25. Access to Project Site. Access to the in-channel locations for project activities shall be restricted to the existing maintenance access adjacent to the western channel bank.

Equipment for in-channel operations shall operate from above the top of bank and will not enter West Antioch Creek unless otherwise approved in writing by CDFW.

2.26. Open Pipes Restriction. All pipes, culverts, hoses, posts, or similarly hollow structures that are staged or stored at the site for one or more overnight periods (either vertically or horizontally) shall be either: capped, screen, or filled with material by the Permittee when structures arrive at the project site or thoroughly inspect for wildlife by the Qualified Biologist prior to use in project activities. All hollow structures installed as part of the project and exposed to the environment shall be capped, screened, or filled with material by Permittee prior to the end of the workday in which the installation occurs.

2.27. Open Trenches, Pits, and Holes. Any open trenches, pits, or holes ("open cavities") with a depth of larger than six inches shall be covered at the conclusion of work each day with a hard, non-heat conductive material (e.g., plywood). No netting, canvas, or material capable of trapping or ensnaring wildlife shall be used to cover open cavities. If use of a hard cover is not feasible, multiple wildlife escape ramps shall be installed, constructed of wood planking, or installed as an earthen-fill slope with walls no greater than 30 degrees in slope, in each open cavity that is capable of allowing large (e.g., deer) and small (e.g., frogs and snakes) wildlife to escape on their own accord. Prior to the initiation of construction each day and prior to covering at the conclusion of work each day, the Qualified Biologist shall inspect the open cavities for wildlife. If wildlife is discovered, it shall be allowed to leave on its own accord. If wildlife does not leave of its own accord, consultation with CDFW is required before work can be initiated.

2.28. Fence and Pole Restrictions. Any fencing, signposts, or vertical poles installed temporarily or permanently throughout the course of the project shall have the top capped and/or the top three post holes covered or filled with screws or bolts to prevent the entrapment of wildlife. All fencing shall not be constructed of materials deleterious to wildlife (e.g., sharp edges exposed at the top or bottom of chain-link fencing, braided wire where birds may become entangled, etc.). No barbed wire, or equivalent, shall be allowed where it may result in harm to birds and other wildlife.

2.29. Removal of Temporary Flagging, Fencing, and Barriers. Permittee shall remove all temporary flagging, fencing, and/or barriers from the project site upon completion of project activities.

2.30. Vegetation Removal and Modification. Vegetation disturbance shall be limited to the immediate work footprint and shall not exceed the minimum amount necessary to conduct project activities. All vegetation slated for modification within the project site shall be surveyed and be deemed clear of wildlife immediately prior to modification activities by the Qualified Biologist. No tree removal or trimming is authorized by this Agreement. If tree removal or trimming is required, CDFW must be consulted, and an Amendment may be required.

2.31. Invasive Plant Species. Permittee shall not plant, seed or otherwise introduce invasive plant species within the project area. Invasive plant species include those identified in the California Invasive Plant Council's inventory database, which is accessible at: About the Cal-IPC Inventory – California Invasive Plant Council.

2.32. No Stockpiling of Vegetation. Vegetation removed under project activities and not slated for slash, mulching, or salvage revegetation purposes shall be placed directly into a

disposal vehicle and removed from the project site. Vegetation not intended for these purposes shall not be piled directly on the ground unless it is later transferred, piece by piece, under the direct supervision of a Qualified Biologist. Vegetation removed that is intended for onsite reuse purposes yet require interim stockpiling (i.e., not immediately transferred, mulched, etc. upon generation) shall be placed within a biological exclusion area and be later transferred to a proper disposal site under the supervision of a Qualified Biologist.

2.33. Removal of Trash and Construction Waste. Permittee shall remove all construction raw materials and wastes from the project site following the completion of project activities. Food-contaminated wastes generated during construction shall be removed daily to avoid attracting predators to work sites. Permittee or its contractors shall not cause any construction debris or litter to be placed within the creek or riparian zone. All trash and debris generated as a result of project activities shall be removed and lawfully disposed of at a licensed facility.

2.34. Report Injury and Mortalities to CDFW Immediately. If any species are found dead or injured during potential relocation activities or other construction-related actions, the Qualified Biologist shall provide written notification within **24 hours** to CDFW by emailing the CDFW staff person listed in the Contact Information Section of this Agreement. CDFW will review the activities resulting in take and determine if additional protective and/or compensatory measures are required.

Vehicles and Equipment

2.35. Vehicles and Equipment Prohibited from Operating in Creek. The Permittee shall not operate equipment in wetted areas (including but not limited to ponded, flowing, or wetland areas) without the prior written approval of CDFW. Equipment for in-channel operations shall operate from above the top of bank and will not enter the creek unless otherwise approved in writing by CDFW.

2.36. Vehicle Chaperoning. A Qualified Biologist shall walk in front of any vehicles, scanning for wildlife, such as WPT, as they move across the project area including the access route and staging areas. The Qualified Biologist shall halt vehicle traffic if wildlife is observed and could be threatened by vehicle traffic until the species in question has moved, or been moved, in accordance with the Agreement.

2.37. Vehicle/Equipment Maintenance and Storage. Permittee shall inspect equipment/vehicles for leaks prior to using on the project site and shall be inspected regularly throughout the project duration. Any equipment or vehicles driven and/or operated in proximity of the creek shall be checked daily and maintained in good working order to prevent the release of contaminants that if introduced to water could be deleterious to aquatic life, wildlife, or aquatic habitat. When not in use, equipment and vehicles shall be stored, refueled, and otherwise maintained in the construction staging areas, with the secondary containment system in place. If a piece of equipment and vehicle is found to be leaking fluids of any kind, it shall be removed from the project area immediately and not returned until appropriate repairs have been made.

2.38. Stationary Equipment. Permittee shall ensure that stationary equipment such as motors, pumps, and generators located within or adjacent to the creek are positioned over drip pans. Stationary heavy equipment shall have suitable containment to handle a

catastrophic spill or leak. Vehicles or equipment parked for extended periods at the site shall also be positioned over drip pans, which shall be checked regularly.

2.39. Spill Containment and Spill Kits. Spill containment kits will be kept on site and be always available for use during construction operations and/or staging or fueling of equipment. All activities performed in or near State waters shall have absorbent materials designated for hazardous materials spill containment and cleanup activities on-site for use in an accidental spill. Permittee shall immediately initiate the cleanup activities in the event of a hazardous materials spill. Prior to entering the work site, all field personnel shall know the location of spill kits and trained in their appropriate use.

2.40. Decontamination of Equipment. Any equipment that will contact the water during project activities shall be decontaminated prior to arriving on the project site, after the project is finished, and any time project equipment leaves and returns to the site to prevent the spread of aquatic diseases and invasive aquatic species to other waterways. Workers shall also decontaminate waders, boots, and other clothing that will come in direct contact with the water prior to arriving on the project site, after the project is finished, and any time work apparel is used off-site and is to be used on the project site again. Decontamination of clothing and equipment shall be done using the most appropriate method(s) from the October 3, 2022 *California Department of Fish and Wildlife Aquatic Invasive Species Decontamination Protocol* found at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=43333&inline.

2.41. Control Spread of New Zealand Mudsnail. Due to the presence of the invasive New Zealand mud snail (*Potamopyrgus antipodarum)* within West Antioch Creek, the following precautions shall be implemented to control the introduction or spread of the species:

- All project personnel shall be trained in the identification, preventative measures, and physical and chemical cleaning methodologies for New Zealand mud snails prior to working on the project. Brochures or identification cards shall be available to all project personnel and CDFW's informational posters shall be installed at the project site. Information can be found at: California's Invaders: New Zealand Mudsnail.

- After work in West Antioch Creek, all waders, boots, gear, and other equipment shall be thoroughly inspected for New Zealand mudsnails by the personnel using said items. A cleaning station should be established on the project site and maintained throughout the project duration employing both physical and chemical cleaning methodologies. The cleaning station shall implement the preventative and treatment methodologies in accordance with the *2022 California Department of Fish and Wildlife Aquatic Invasive Species Decontamination Protocol* discussed above.

- A designated cleaning area shall be established for heavy equipment and vehicles. All heavy equipment shall be cleaned prior to leaving the site in accordance with CDFW guidelines.

Toxic and Hazardous Materials

2.42. Spill of Material Deleterious to Fish, Wildlife, and Plants. Permittee and all contractors shall be subject to the water pollution regulations found in Fish and Game Code Sections 5650 and 12015. In the event of a hazardous materials spill into the creek (e.g., equipment

fluids, turbid waters, etc.), Permittee shall immediately notify the California Office of Emergency Services State Warning Center by calling 1-800-852-7550 and immediately provide written notification to the CDFW staff person listed in the Contact Information Section of this Agreement.

Permittee shall take all reasonable measures to document the extent of the impacts and affected areas including photographic documentation of affected areas, injured fish and wildlife, or where the affected area could impact protected plants. Permittee shall meet with CDFW within **10 days** of the reported spill in order to develop a resolution including: site cleanup, site restoration, and compensatory mitigation for the harm caused to fish, wildlife, and the habitats on which they depend as a result of the spill. Permittee shall be responsible for all spill cleanup, site restoration, and compensatory mitigation costs. Spill of materials to waters of the State that are deleterious to fish and wildlife are in violation of Fish and Game Code Section 5650 et seq. and are subject to civil penalties for each person responsible. CDFW reserves the right to refer the matter to the District Attorney's Office if a resolution cannot be agreed upon and achieved within a specified timeframe, generally six months from the date of the incident.

2.43. Spill Prevention and Emergency Spill Response Plan. The Permittee shall prepare and submit a Spill Prevention and Emergency Response Plan to CDFW **prior to the start of project work**. This plan shall be limited to three pages in length and may be presented in prose, table, or bulleted list format. This plan shall identify what procedures the Permittee shall employ to handle and store potential hazardous materials. This plan shall also identify the actions which would be taken in the event of a spill of cementitious products, petroleum products, sediment, or other material harmful to fish, wildlife, plant resources, or the habitats thereof. This plan shall also identify the emergency response materials which shall be kept at the site to allow the rapid containment and cleanup of any spilled material. Permittee may substitute a Stormwater Pollution Prevention Plan (SWPPP) in place of the emergency spill response plan. The emergency spill response plan or the SWPPP shall be attached as Exhibit G to this Agreement and fully incorporated herein by reference.

2.44. Spill Containment and Spill Kits. All activities performed in or near State waters shall have absorbent materials designated for hazardous materials spill containment and cleanup activities onsite for use in an accidental spill. As necessary, containment berms shall be constructed to prevent spilled materials from reaching the creek channel. Prior to entering any project area, all field personnel shall know the location of spill kits and trained in their appropriate use. Permittee shall immediately initiate the cleanup activities in the event of a hazardous materials spill.

2.45. Storage and Handling of Hazardous Materials. Any hazardous or toxic materials that could be deleterious to fish, wildlife, plant resources, or the habitats thereof shall be contained in watertight containers or removed from the project site. Such materials include, but are not limited to, debris soil, silt, bark, rubbish, chemically treated lumber products, cementitious products, or washings thereof, paint or other coating material, and oil or other petroleum products. These materials shall be prevented from contaminating the soil and/or entering the creek. Any such materials, placed within or where they may enter the creek, by Permittee or any party working under contract, or with permission of Permittee, shall be removed immediately.

Erosion and Sediment Control

2.46. Erosion Control Plan. Permittee shall submit a comprehensive Erosion Control Plan to CDFW for review and approval no more than **60 days** prior to initiation of any project-related activities. Once approved, this plan shall be attached as Exhibit H to this Agreement and fully incorporated herein by reference. The Erosion Control Plan shall be prepared in accordance with requirements set forth in this Agreement, and shall include, at minimum, the following: (1) description of materials, methods and timing being proposed; (2) map of project site(s) clearly depicting areas on which erosion control will be installed; (3) if hydroseeding is proposed, a list of species which will be used.

2.47. Erosion Control Implementation. All exposed soils within the work area shall be stabilized with erosion control devices immediately following the completion of earthmoving activities, during project activities, or prior to rain events to prevent erosion into the creek. Erosion control measures, such as silt fences, fiber rolls, straw wattles, gravel- or rock-lined ditches, water check bars, and broadcasted straw, or other appropriate materials, shall be used. Erosion control measures shall be monitored during and after each storm event for effectiveness. Modifications, repairs, and improvements to erosion control measures shall be made as needed to protect water quality. At no time shall sediment-laden runoff be allowed to enter the channel or directed to where it may enter the channel.

2.48. Erosion Control Material Limitation. To minimize the risk of ensnaring snakes and other wildlife, Permittee shall not use erosion control materials containing synthetic (e.g., plastic or nylon) monofilament netting or cross joints in the netting that are bound/stitched. Geotextiles, fiber rolls, and other erosion control measures shall be made of loose-weave mesh, such as coconut (coir) fiber, or other products without welded or tight weaves.

2.49. Geo-textile Fabric. Permittee shall not use geo-textile fabrics of any variety for permanent use in the project. Temporary use of geo-textile fabrics for the purposes of exclusion or silt fencing is permissible under the condition they are to be removed immediately after their need.

2.50. Location of Spoil Sites and Stockpiles. Permittee shall ensure that spoils piles and stockpiles shall be placed a minimum of **25 linear feet** away from creeks, ponds, drainages, or swales, and placed away from concentrated ground squirrel burrows or sensitive plant species stands within the project site. Spoils and stockpiles shall be placed on already disturbed or ruderal habitats wherever feasible. Sediment spoil piles shall be stored on plastic sheets in the designated staging area and a secondary containment system installed.

2.51. Cover Spoil Piles. Permittee shall have readily available natural fiber filter fabric or burlap to cover exposed spoil piles and exposed areas of bare dirt in order to prevent loose soil from moving or blowing into sensitive habitats. These materials shall be applied when it is evident rainy or windy conditions threaten to erode loose soils into sensitive habitats.

2.52. No New Project Phase without Erosion Control. Installation of erosion control devices shall be performed under the direction of a qualified or certified erosion control specialist. No phase of the project may be started if that phase and its associated erosion control measures cannot be completed prior to the onset of a rain event if that construction phase may cause the introduction of sediments into a creek. Erosion control measures shall be inspected frequently to minimize failure and conduct any necessary repairs. All non-

structural related and non- biodegradable erosion control measures shall be removed from the project site upon cessation of construction activities.

2.53. Storm Event Inspection. After any storm event, Permittee shall inspect all sites scheduled to begin or continue construction within the next **72 hours**. Corrective action for erosion and sedimentation shall be taken as needed, including but not limited to repairs to erosion control or exclusion fencing.

Water Diversion and Dewatering

2.54. Dewatering and Diversion Plan. Permittee shall follow the Dewatering and Diversion Plan (Exhibit I) submitted to CDFW with the project Notification. If any changes to the Dewatering and Diversion Plan are required, Permittee shall submit a written request to the CDFW staff person listed in the Contact Information Section of this Agreement. CDFW will review the request and may require additional measures to protect fish and wildlife resources as a condition of granting the modification. Any such additional measures shall then be made part of the conditions of this Agreement. The Permittee shall only proceed if CDFW provides written approval of the new Dewatering and Diversion Plan.

2.55. Groundwater and Nuisance Seepage. Nuisance flows and seepage around or found throughout the project site and project activities shall be isolated from surface flows in the creek channel and the work area shall be periodically pumped dry of seepage as needed to achieve this. Groundwater or subsurface flow encountering during excavation shall be pumped to natural or excavated settling basin on stable soil outside the channel. The settling basin shall not be allowed to drain to or be pumped to the creek until the stored water is less turbid than the creek flow into which it is released and of sufficient quality to maintain downstream aquatic life.

2.56. Capture and Relocation of Aquatic Wildlife. As needed throughout project activities, the Qualified Biologist shall capture and relocate applicable wildlife (i.e., species that are not rare, threatened, or endangered under CESA) out of harm's way to the nearest area of appropriate habitat outside of the project area. Measures shall be taken to avoid harm and mortality resulting from relocation activities. Specific adherences for relocating aquatic (fish, aquatic reptiles, amphibians) wildlife are as follows:

2.56.1. Methods for Capture and Relocation of Aquatic Wildlife. Qualified Biologist shall capture and relocate applicable wildlife. Capture methods may include fish landing nets, dip nets, buckets and by hand. Captured wildlife shall be released immediately in the closest downstream body of water or potential habitat adjacent to the project location.

2.56.2. Relocated Aquatic Wildlife Records. A record shall be maintained of all relocated wildlife. The record shall include the date of capture and relocation, the method of capture, the location of the relocation site in relation to the project site, and the number and species captured and relocated. The record shall be provided to CDFW with the Project Completion Report.

2.56.3. Release Locations Criteria. Prior to capturing aquatic wildlife, the most appropriate release location(s) shall be determined, using the following criteria: (1) water temperature shall be similar as the capture location; (2) there shall be ample habitat for the captured species; (3) relocation areas must be in proximity to the

capture site, contain potential habitat, and not be affected by project activities; (4) and be free of exotic predatory species (i.e., bullfrogs, crayfish, etc.) to the best of the Qualified Biologist's knowledge. In the rare case that amphibian egg masses are found after July 1, the Qualified Biologist shall make every attempt to wait until the egg masses hatch to transport them. There shall be a low likelihood for aquatic wildlife to reenter the project site or become impinged on exclusion fencing, nets, or screens.

2.56.4. Wet Hands and Nets. Handling of aquatic wildlife within the project site shall be minimized. However, when handling is necessary, the Qualified Biologist shall always wet hands or nets prior to touching species for relocation.

2.56.5. Proper Holding Technique. Holding containers shall be sized such that adult fish will fit without touching the sides. The Qualified Biologist shall temporarily hold aquatic wildlife in cool, shaded, aerated water in a flow-through live car. The Qualified Biologist shall protect such wildlife from jostling and noise and shall not remove such aquatic wildlife from this container until time of release.

2.56.6. Water Temperatures and Water Changes. The Qualified Biologist shall measure air and water temperatures periodically. A thermometer shall be placed in holding containers and, if necessary, periodically conduct partial water changes to maintain a stable water temperature. If water temperature reaches or exceeds 18 degrees Celsius, captured aquatic wildlife shall be released immediately, and all wildlife relocation operations ceased unless otherwise authorized in writing by CDFW.

2.56.7. No Overcrowding. Overcrowding in containers shall be avoided by having at least two containers and segregating young-of-year fish, amphibians, and reptiles from larger age-classes to avoid predation. Larger amphibians shall be placed in the container with larger fish. If fish are abundant, the capturing of fish and amphibians shall cease periodically, and they shall be released at the predetermined locations. Reptiles shall not share containers with fish and amphibians.

2.57. Daily Cofferdam Checks for Stranded Aquatic Wildlife. The Qualified Biologist shall check daily for stranded wildlife as the water level within the dewatering area drops. Applicable stranded native wildlife shall be relocated according to the terms of this Agreement.

2.58. Cofferdam Requirements. Prior to the start of construction, Permittee shall divert the creek around or through the work area and the work area shall be isolated from the flowing creek. Cofferdams shall comply with the following requirements:

- Be watertight and constructed of a non-erodible material and shall not contain soil, fine sediment, or any other highly erodible material. Cofferdams shall be constructed using clean gravel bags and may be sealed with polyethylene material.
- Cofferdams shall be installed during periods of low flow to reduce the potential for the presence of aquatic species within the work area.
- Cofferdams shall be installed upstream and downstream of the work site and divert all flow from upstream of the upstream dam to downstream of the downstream dam, through a suitably sized pipe.

- Cofferdams shall remain in place and functional for the duration of in-channel activities. If the cofferdams or creek diversions fail, they shall be repaired immediately.
- The minimum footprint feasible for the cofferdam placement shall be utilized to lessen the impact to flow within the channel.
- All cofferdam materials and water diversion items shall be removed from the creek and natural flows restored upon completion of the activities requiring dewatering, which shall be no later than October 15.

2.59. Water Diversion. Permittee shall divert flow in a manner that prevents turbidity, siltation, or pollution and provides flows to downstream reaches. Diversion shall be conducted such that water at the downstream end does not scour the channel bed or banks. Unless otherwise specified by CDFW, the entire natural flow shall be allowed to bypass the project site and discharge to downstream reaches. Flows shall be sufficient quality and quantity to support fish and other aquatic life in good condition both above and below the diversion. If possible, gravity flow is the preferred method of water diversion. If a pump is used, it shall be operated at the rate of flow that passed through the site naturally; pumping rates shall not dewater nor impound water on the upstream side of the cofferdam. Pumps shall be placed in flat areas, away from the creek channel. Pumps shall be secured by tying off to a tree or staked in place to prevent movement by vibration. The natural flow shall be restored to the affected creek immediately upon completion of work at that location.

2.60. Intake Screens. The suction end of water intakes shall be fitted with fish screens meeting CDFW criteria to prevent entrainment or impingement of fish, reptiles, or amphibians that escaped removal. CDFW fish screen criteria can be found in the *California Salmonid Stream Restoration Manual's Appendix S* available online at: Guidance Tools (CDFW.ca). Pump intakes shall be checked by the Qualified Biologist at least twice daily while the cofferdam is in place, for impingement of fish, reptiles, or amphibians.

Rock Slope Protection (RSP) Specifications

2.61. RSP Acceptable Practices. RSP shall consist of clean rock, competent for the application, sufficiently sized, and properly installed to remain in place and withstand highest velocity of water anticipated within the creek channel. Slopes with RSP shall be supported with competent boulders keyed into a footing trench with a depth sufficient to properly seat the footing comprised of coarse boulders and prevent instability. Permittee shall ensure the RSP is placed in a smooth curve along the natural bank alignment, shall not project out into the channel beyond the limits of the natural bank, and shall not include any "barbs" or "groins", or other features which will deflect flow against the opposite bank, or cause the formation of downstream eddies. Any other bank stabilization method is subject to CDFW review and written acceptance.

2.62. Fill Materials. No fill material, other than clean rock, shall be placed in the channel. Rock, gravel, soil, vegetation, and/or other native stream materials shall not be imported to, taken from, or moved within the bed or banks of any waterway, except as otherwise authorized under this Agreement.

2.63. Fill Voids of RSP. Permittee shall ensure that all voids and spaces within the riprap are filled with smaller rock, gravels, and native soil material, and revegetated with local plant species per the Measures of this Agreement.

2.64. No Grouting of RSP. Permittee shall not apply grout, cement, or mortar to RSP.

2.65. Geo-Textile Fabric Restriction. Permittee shall not use geo-textile fabrics of any variety for permanent use in the project. Temporary use of geo-textile fabrics for the purposes of exclusion or silt fencing is permissible under the condition they are to be removed immediately after their need.

2.66. Long Term Bank Stability. Permittee shall ensure that bank stabilization is maintained according to the final design plans. Permittee shall be responsible for all repairs if the rock type, shape, and/or size result in latent erosion, unintended scour, bank failure, and/or other degradation of the channel that may contribute to downstream sedimentation or overall habitat degradation. If degradation occurs post-implementation such that a section of bank is not stabilized as designed, Permittee shall contact CDFW to discuss remediation measures. A new Notification, and additional compensatory mitigation, may be required for work necessary to remediate damage resulting from any such degradation or failure.

3. Compensatory Measures

To compensate for adverse impacts to fish and wildlife resources identified above that cannot be avoided or minimized, Permittee shall implement each measure listed below.

3.1. Riparian Mitigation. Permittee shall be responsible for a minimum 0.86-acre uplift of riparian and stream resources onsite. This shall be to compensate for the 0.78 acres of temporary impacts and 0.005 acre of permanent to riparian habitat communities. Permittee shall submit a final Mitigation and Monitoring Plan (MMP) for CDFW review and approval at least **30 days** prior to the commencement of project activities for the 0.86-acre onsite enhancement and restoration area. The MMP shall include discussion of the Permittee plan to achieve the site remediation requirements and success criteria discussed in Measure 3.2. Once approved, the MMP shall be attached as Exhibit J herein to this Agreement and fully incorporated herein by reference

If the mitigation amount cannot be satisfied through onsite actions, the Permittee shall purchase riparian or stream habitat, or ecologically equivalent credits from a CDFW-approved mitigation or conservation bank for the remaining acreage of mitigation required. Permittee shall obtain written approval of the bank and credits from CDFW prior to purchase. Permittee shall complete the purchase and submit the payment receipt to CDFW prior to the commencement or project activities.

3.2. Site Remediation. Areas that have become either barren of vegetation, slated for erosion control, or where ground disturbance has occurred, shall be revegetated with local native plant species consistent with the native vegetative composition immediately up and downstream of the project site. If project areas are slated for seeding or hydroseeding, the native seed mix shall include an equal parts mixture, or other ratio with CDFW approval, of at least: one perennial grass, one annual grass, one perennial forb, and one annual forb. Revegetation efforts shall occur prior to the onset of winter rains within the year initial impacts take place. Salvaged vegetation may be utilized by the Permittee yet shall adhere

to all Measures applicable in this Agreement. To ensure revegetation efforts succeed, on-site plantings and seeded areas shall meet the following success criteria:

3.2.1. Baseline conditions, including absolute percentages of ground cover, shall be quantified by the Qualified Biologist prior to the commencement of project activities. The baseline narrative and representative photographs shall be submitted with the biological surveys for each project site.

3.2.2. Removal and prevention of re-establishment of the currently existing stands of *A. donax spp.* and *R. armeniacus* along both banks of West Antioch Creek within the project boundary and replacement with appropriate native vegetation. Following removal, the areas shall be monitored and adaptively managed, as needed, for five years to ensure eradication of the stands. To be considered successful, these stands must be completely removed and show no re-growth for two years.

3.2.3. Vegetation cover shall consist of no new invasive plant species rated as "high" or "moderate" by the Cal-IPC at the end of five years. Reinvasion of extant invasive species found on-site shall not exceed greater than 20-percent of baseline conditions of the total revegetated area at the end of five years.

3.2.4. Remediated areas shall be monitored for a minimum of five years after revegetation efforts are initially applied. Monitoring shall occur, at the minimum, in April and August of the year following initial impacts. If the goals of this agreement are not met in the annual monitoring results, then Permittee shall be responsible for replacement plantings or seeding, additional watering, weeding, invasive plant eradication, regrading, and additional years of monitoring until these goals have been met or otherwise approved in writing by CDFW.

4. Reporting Measures

Permittee shall meet each reporting requirement described below.

4.1. Pre- and Post-construction Notification. Permittee shall notify CDFW **14 calendar days** prior to the initiation of project activities, and within **14 calendar days** of the completion of project activities. Permittee shall submit the notification to the CDFW staff person listed in the Contact Information Section of this Agreement, referencing Notification Number EPIMS-CCA-32699-R3.

4.2. Pre-construction Report. At least **14 days** prior to the initiation of project activities, the Permittee shall upload to the EPIMS portal a pre-construction report detailing the current site conditions, all the required pre-construction survey efforts that have or will be undertaken, the vegetation baseline narrative, a description of all species-protective activities conducted pursuant to this Agreement's avoidance and minimization measures, and the representative pre-construction photographs (See Measure 4.4, below)

4.3. Biological Surveys. Permittee shall complete all surveys and associated requirements within the listed timeframes set forth in this Agreement. Within **48 hours** after completing each survey required under this Agreement, the Qualified Biologist shall submit a comprehensive report detailing the biological personnel performing the survey;

survey timing, methods, and results; and a description of all activities conducted pursuant to the avoidance and minimization measures contained within this Agreement.

4.4. Photographic Documentation of Work. Prior to the commencement of work, Permittee shall flag a minimum of 15 vantage points every 200 feet along the creek for the project that offer all representative views of the project sites to be taken from each bank, in addition to a minimum of 4 vantage points of other relevant work areas (e.g., staging locations; spoils area; and any other work areas). Permittee shall photograph the project areas from each of the flagged points, noting the direction and magnification of each photo. Pre-construction photographs shall be digitally sent to CDFW as part of the Pre-construction Notification and Biological Surveys as stated in this Agreement. Upon completion of work, Permittee shall photograph post-project conditions from the flagged photo points use the same direction and magnification as the pre-project photos. Side by side pre- and post-project photographs shall be digitally sent to CDFW within **five days** of completion of the project via email or digital media. A reference key shall be submitted with the photos describing the location of the photo, the direction of the view, and whether the photo is pre- or post-construction. All photos shall be submitted in the Project Completion Report.

4.5. Weekly Monitoring and Compliance Reports. The Qualified Biologist shall submit a report every week to CDFW that includes the following items: (1) notification number, (2) a summarized description of whether compliance for all avoidance and minimization measures has been met, (3) recommendations to achieve compliance of any avoidance and minimization measures that have not been met, (4) fish and wildlife (and their CESA designation) observed during monitoring, (5) a description of any instances of capture and relocation of wildlife, (6) any observed mortalities of wildlife including species, location and suspected cause of death; and (7) if work was not done, or was stopped for a period of time, provide the dates of inactivity. Permittee shall upload each weekly report to the EPIMS data portal referencing Notification Number EPIMS-CCA-32699-R3.

4.6. Project Completion Report. A Project Completion Report shall be uploaded to the EPIMS data portal within **30 days** of completion of all project-related activity. This report shall include, at minimum, the following: (1) dates that construction activities occurred; (2) pertinent information concerning the success of the project in meeting avoidance and minimization measures; (3) compensatory and conservation measures fulfilled; (4) summaries of relocations, mortalities and special status species documented at the project site; (5) copies of any CNDDB submissions made during the course of project related activities; (6) photographs of post-construction results; and (7) the as-built designs of the completed work. An explanation of failure to meet such measures as specified in this Agreement shall also be included, if applicable. Permittee shall upload the Project Completion Report to the EPIMS data portal, referencing Notification Number EPIMS-CCA-32699-R3.

4.7. CNDDB Observations. The Qualified Biologist shall submit all observations of Covered Species to CDFW's California Natural Diversity Database (CNDDB) at https://www.wildlife.ca.gov/Data/CNDDB/Submitting-Data within **14 calendar days** of the observation and the Qualified Biologist shall include copies of the submitted forms with the Project Completion Report.

4.8. Post Construction Walkthrough. Permittee shall contact CDFW to participate in a post construction walkthrough of the project area within **30 days** of project completion to ensure that: (1) the project has been constructed as designed; (2) erosion control measures and revegetation efforts have been appropriately implemented. Permittee shall act immediately upon CDFW staff request to address concerns discovered during the walkthrough, in a timeframe identified by CDFW in its sole discretion.

4.9. Annual Monitoring Reports. Permittee, in consultation with the Qualified Biologist, shall compile and submit to CDFW monitoring reports summarizing the results of all compensatory restoration and revegetation activities outlined in in this Agreement **annually for five years** following completion of the project. Each report shall be submitted to CDFW no later than September 1 of the year after project activities are terminated. Each report shall detail, at minimum: (1) survey methodology focusing on revegetation success criteria; (2) relative plant cover of the area, contrasting between each year when applicable; (3) latent erosion or scour to the area; (4) implemented or planned maintenance activities; (5) adaptive management techniques to be employed for any failures to meet the requirements in Section 3; and (6) calculation of success towards meeting 0.86 acre mitigation requirement.

CONTACT INFORMATION

Any communication that Permittee or CDFW submits to the other shall be submitted through Environmental Permit Information Management System (EPIMS) as instructed by CDFW.

To Permittee:

Cornelius Johnson
City Manager
City of Antioch
200 H Street
Antioch, CA 94509-1005
cjohnson@antiochca.gov

To CDFW:

California Department of Fish and Wildlife
Bay Delta Region
2825 Cordelia Road, Suite 100, Fairfield, CA 94534
Attn: Lake and Streambed Alteration Program – Sabrina Dunn
Notification #EPIMS-CCA-32699-R3
Sabrina.Dunn@wildlife.ca.gov and/or R3LSA@wildlife.ca.gov

LIABILITY

Permittee shall be solely liable for any violations of the Agreement, whether committed by Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents or contractors and subcontractors, to complete the project or any activity related to it that the Agreement authorizes.

This Agreement does not constitute CDFW's endorsement of, or require Permittee to proceed with the project. The decision to proceed with the project is Permittee's alone.

SUSPENSION AND REVOCATION

CDFW may suspend or revoke in its entirety the Agreement if it determines that Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, is not in compliance with the Agreement.

Before CDFW suspends or revokes the Agreement, it shall provide Permittee written notice by certified or registered mail that it intends to suspend or revoke. The notice shall state the reason(s) for the proposed suspension or revocation, provide Permittee an opportunity to correct any deficiency before CDFW suspends or revokes the Agreement, and include instructions to Permittee, if necessary, including but not limited to a directive to immediately cease the specific activity or activities that caused CDFW to issue the notice.

ENFORCEMENT

Nothing in the Agreement precludes CDFW from pursuing an enforcement action against Permittee instead of, or in addition to, suspending or revoking the Agreement.

Nothing in the Agreement limits or otherwise affects CDFW's enforcement authority or that of its enforcement personnel.

OTHER LEGAL OBLIGATIONS

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with, or obtaining any other permits or authorizations that might be required under, other federal, state, or local laws or regulations before beginning the project or an activity related to it. For example, if the project causes take of a species listed as threatened or endangered under the Endangered Species Act (ESA), such take will be unlawful under the ESA absent a permit or other form of authorization from the U.S. Fish and Wildlife Service or National Marine Fisheries Service.

This Agreement does not relieve Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, from complying with other applicable statutes in the Fish and Game Code including, but not limited to, Fish and Game Code sections 2050 *et seq*. (threatened and endangered species), section 3503 (bird nests and eggs), section 3503.5 (birds of prey), section 5650 (water pollution), section 5652 (refuse disposal into water), section 5901 (fish passage), section 5937 (sufficient water for fish), and section 5948 (obstruction of stream).

Nothing in the Agreement authorizes Permittee or any person acting on behalf of Permittee, including its officers, employees, representatives, agents, or contractors and subcontractors, to trespass.

AMENDMENT

CDFW may amend the Agreement at any time during its term if CDFW determines the amendment is necessary to protect an existing fish or wildlife resource.

Permittee may amend the Agreement at any time during its term, provided the amendment is mutually agreed to in writing by CDFW and Permittee. To request an amendment, Permittee shall use the "Amendments & Extension" form in EPIMS to submit the request. Permittee shall include with the completed form, payment of the corresponding amendment fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

TRANSFER AND ASSIGNMENT

This Agreement may not be transferred or assigned to another entity, and any purported transfer or assignment of the Agreement to another entity shall not be valid or effective, unless the transfer or assignment is requested by Permittee in writing, as specified below, and thereafter CDFW approves the transfer or assignment in writing.

The transfer or assignment of the Agreement to another entity shall constitute a minor amendment, and therefore to request a transfer or assignment, Permittee shall use the "Amendments & Extension" form in EPIMS to submit the request. Permittee shall include with the completed form, payment of the minor amendment fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5).

EXTENSIONS

In accordance with Fish and Game Code section 1605, subdivision (b), Permittee may request one extension of the Agreement, provided the request is made prior to the expiration of the Agreement's term. To request an extension, Permittee shall use the "Amendments & Extension" form in EPIMS to submit the request. Permittee shall include with the completed form, payment of the extension fee identified in CDFW's current fee schedule (see Cal. Code Regs., tit. 14, § 699.5). CDFW shall process the extension request in accordance with Fish and Game Code section 1605, subdivisions (b) through (e).

If Permittee fails to submit a request to extend the Agreement prior to its expiration, Permittee must submit a new notification and notification fee before beginning or continuing the project the Agreement covers (Fish & G. Code § 1605, subd. (f)).

EFFECTIVE DATE

The Agreement becomes effective on the date of CDFW's signature, which shall be: (1) after Permittee's signature; (2) after CDFW complies with all applicable requirements under the California Environmental Quality Act (CEQA); and (3) after payment of the applicable Fish and Game Code section 711.4 filing fee listed at https://www.wildlife.ca.gov/Conservation/CEQA/Fees.

TERM

This Agreement shall expire on **December 31, 2027**, unless it is terminated or extended before then. All provisions in the Agreement shall remain in force throughout its term. Permittee shall remain responsible for implementing any provisions specified herein to protect fish and wildlife resources after the Agreement expires or is terminated, as Fish and Game Code section 1605, subdivision (a)(2) requires.

EXHIBITS

The documents listed below are included as exhibits to the Agreement and incorporated herein by reference.

A. Exhibit A – Project Location Map
B. Exhibit B – [Reserved for future exhibit: Final 100% Design Plans (City of Antioch, TBD)]
C. Exhibit C – Project Impacts (City of Antioch, 2022)
D. Exhibit D– [Reserved for future exhibit: Sediment Management Plan (City of Antioch, TBD)]
E. Exhibit E– Biologist Resume Form
F. Exhibit F – [Reserved for future exhibit: Exclusionary Fence Plan (City of Antioch, TBD)]
G. Exhibit G – [Reserved for future exhibit: Spill Prevention and Emergency Response Plan (City of Antioch, TBD)]
H. Exhibit H– [Reserved for future exhibit: Erosion Control Plan (City of Antioch, TBD)]
I. Exhibit I– Dewatering and Diversion Plan (Woodard and Curran, 2022)
J. Exhibit J– [Reserved for future exhibit: Final Mitigation and Monitoring Plan (City of Antioch, TBD)]

AUTHORITY

If the person signing the Agreement (signatory) is doing so as a representative of Permittee, the signatory hereby acknowledges that he or she is doing so on Permittee's behalf and represents and warrants that he or she has the authority to legally bind Permittee to the provisions herein.

AUTHORIZATION

This Agreement authorizes only the project described herein. If Permittee begins or completes a project different from the project the Agreement authorizes, Permittee may be subject to civil or criminal prosecution for failing to notify CDFW in accordance with Fish and Game Code section 1602.

CONCURRENCE

Through the electronic signature by the permittee or permittee's representative as evidenced by the attached concurrence from CDFW's EPIMS, the permittee accepts and agrees to comply with all provisions contained herein.

The EPIMS concurrence page containing electronic signatures must be attached to this agreement to be valid.

ATTACHMENT 2: SECTION 01035 – OWNER PROVIDED INFORMATION

SECTION 01035 – OWNER PROVIDED INFORMATION

PART 1 GENERAL

1.1 SUMMARY

A. This Section is for the purpose of including information in the Contract Documents provided by the Owner.

B. The information provided in the section was not developed by the Engineer or the Owner. It is only provided by the Owner for reference by the Contractor.

PART 2 PRODUCTS – NOT USED

PART 3 EXECUTION – NOT USED

END OF SECTION

DMZ BUILDERS	**Submittal** **DMZ Builders** **West Antioch Creek Channel** **Contract No. P.W.201-6**	**Submittal Number: 7** Revision Number: 0 **Date: 2/19/2018**

To:
Attn: Scott Buenting
City of Antioch
200 "H" Street
Antioch, CA 94509

From:
Tyler Hoffman
DMZ Builders
4070 Nelson Ave Ste. A
Concord, CA 94520

Subject: Flow Diversion and Exclusion Fencing Submittal

We hereby submit the following for your approval.

ITEM NO.	Rev.	DRAW/SPEC. NO.	DESCRIPTION
	0	02140	Flow Diversion and Exclusion Fencing Submittal

Remarks:

Please respond by: 03/19/2018

Tyler Hoffman
DMZ Builders

Scott Buenting
City of Antioch

West Antioch Creek Channel Improvements

Project Number: P.W. 201-6

West Antioch Creek Channel Flow Diversion and Exclusion Fencing Submittal

Contract Specification 02140

Submitted: February 19th, 2018

DMZ Builders
4070 Nelson Ave, Suite A
Concord, CA 94520

Contents

Permit Information:

Streambed Alteration Agreement
Notification No. 1600-2014-0350-R3
West Antioch Creek Channel Improvements Project

Project Description and Scope as Defined by Permit

The Project is limited to the improvement of West Antioch Creek flood control channel to increase flood control capacity in the upper reach of the channel designated Reach A. In Reach A, an existing concrete lined culvert will be replaced with a larger culvert and an existing concrete lined channel that is partially underground will be converted to a dirt lined channel. The dirt lined channel will also be day lighted along a section of the channel parallel to O Street. The Project is limited to the following:

1.) Culvert Replacement & Improvement. The Project is limited to the replacement of an existing culvert that has insufficient capacity. The existing culvert runs underneath West 10th Street and will be replaced with a four-barrel, pre-cast, concrete box culvert. Each barrel will be approximately 14 feet long by 7 feet high; the entire length of the 4-barrel structure is approximately 100 feet from upstream end to downstream end. Culvert inlet apron structures will be constructed at the upstream and downstream ends of West 10th Street. The upstream culvert inlet will be 15,6 feet deep, 100 feet long and will be installed even with the line of flow of West Antioch. Sloped wingwalls will be installed on the upstream end that vary from approximately 15 feet in height to 2 feet in height. The downstream wingwalls are also sloped and vary from approximately 21.6 feet in height to 2 feet. The pre-cast structures will then be backfilled with 200 cubic yards of native soil on the west side and 1,500 cubic yards of native soil on the east side. An approximate 40-foot-long by 10-foot-deep rock slope protection (RSP) apron will be installed just in front of the downstream culvert inlet. An approximate 40-foot-long by 30-foot-deep RSP apron that varies in depth from the 30 feet to 2 feet will be installed on the upstream end. The entire new structure will be shifted 40 feet to the west to align with the newly created channel. A sheet pile wall will be required during construction to prevent scour upstream of the southern. A cofferdam will be installed and will consist of a sump and bypass pump that will transport water from the upstream end to the downstream end at West 8th Street. Once the new structure is installed the new bypass pipe will be inserted through a culvert barrel. Approximately 1,200 cubic yards of sediment will be excavated to accommodate construction of the Project.

2.) Concrete Channel Conversion and Improvement. The Project is limited to the demolition of an approximately 400 linear foot existing concrete lined channel that will be converted to a 640 linear feet earthen bottom channel. The channel will be widened between 82-84 feet at the base and approximately 104 feet at the top of the channel bank invert. In addition, a portion of a previously existing timber ditch cover, concrete channel, paved parking area, breezeway, and service bay at a building located at 1400 West 10th Street will be demolished and removed to allow for an increased channel length and daylighting of a portion of the previously covered channel. Approximately 5,000 cubic yards of sediment will be removed from the existing channel reach to accommodate the new

channel. The new channel will be shifted 40 feet west from its current location to accommodate the new configuration and newly installed culvert structure, as well as the existing culvert and concrete channel on the east side will be backfilled using approximately 1,500 cubic yards of native fill. The west side of the channel adjacent to the new culvert will be backfilled with approximately 200 cubic yards of native soil.

Project Schedule and Restrictions as Defined by Permit

To minimize adverse impacts to fish and wildlife and their habitats, work within streams will be limited from April 15 to October 31. Re-vegetation work above the mean high-water level may be done at any time, provided that appropriate erosion control BMPs are implemented. The work period may be extended on a week/day to week/day basis with CDFW approval. No Project activity will be initiated until thirty (30) minutes after sunrise and all Project activity will cease thirty (30) minutes prior to sunset. All lighting shall be turned off thirty (30) minutes prior to sunset, unless required for safety or security purposes. All Project lighting left on after sunset will focus only on areas of impact to avoid light pollution to natural and sensitive areas outside the Project limits and avoid disruption to nocturnal wildlife behavior. Work will be restricted to periods with minimal or no precipitation to minimize bank disturbance and erosion. No phase of the Project shall be initiated if the 72-hour forecast from the National Weather Service (http://www.nws.noaa.gov) predicts a 30% or greater chance of rain. If an unanticipated storm event occurs during construction, the Permittee shall inspect all sites currently under construction and scheduled to begin work within 72 hours for indications of bank erosion and/or channel sedimentation; if noticeable erosion or sedimentation has occurred, the Permittee shall implement additional erosion control features and consult with CDFW regarding corrective actions. If a precipitation event exceeding 1/4-inch of rain over a 24-hour period occurs, Permittee shall wait a minimum of 24 hours before resuming construction. Prior to any work notifications shall be given to the City to coordinate required oversight and personnel. All works shall have attended a pre-construction training session prior to working within the Project site.

Exclusion Fencing

Prior to any dewatering work an exclusionary fencing system shall be installed surrounding the reaches of the upper segment of reach A, reference Submittal 006 Stormwater Pollution Prevention Plan for specific locations. The location will be laid out in the field and agreed upon by the City's Qualified Biologist. The fencing to be installed will be standard silt fencing at least forty-two (42) inches in height that will be trenched six (6) inches into the soil. The soil will then be compacted against both sides of the fence to prevent wildlife from gaining access underneath. The stakes will be placed on the upland side of the fence. No gaps or holes are permitted in the fencing system, except for pedestrian and vehicle entry points. In the event the existing channel is concrete or grouted RSP, the silt fencing will be set flush with the bottom grade and secured in place by placing sand bags over top. Any vegetation outside the direct area of fencing within a five (5) foot perimeter must be cleared to a height of four (4) inches or less and maintained throughout the project at this height, using hand tool vegetation removal

and clearing methods. A qualified biologist must be present during all vegetation removal and installation activities. The silt fences and other in-stream containment structures shall be adequately secured/braced to contain anticipated sediment and debris load. Fencing system shall be inspected periodically in accordance with the SWPPP.

Flow Diversion

West Antioch Creek's flows are from largely urban drainage area, which is ephemeral in nature, thus only flows at a high rate during wet weather periods. Dry weather season low level nuisance flows can occur due to excessive irrigation or upstream water use activities.

The existing channel is currently holding approx. 2-3 ft. of stagnant water. The Contractor's approach to implement the flow diversion system will be installed in several phases. Reference Appendix A for Flow Diversion Schematic.

Initial Draw Down

Initially a berm constructed of sand bags and lined with visqueen will be installed on the downstream limits of the channel beyond the Project grading limits. The lined berm shall be constructed to a height 1' taller than the localized existing channel bank to achieve adequate freeboard. Once the berm is established an intake diversion pump will installed upstream of the dam to pump the water to the downstream side of the berm. The Contractor anticipates utilizing a Honda WT30 3-inch Trash Pump or similar for this operation. This pump has the ability to throttle discharge output up or down in the event needed. The discharge end of piping will be secured and positioned in a manner to mitigate scouring of the existing channel. The City will provide qualified biologists and fish rescue personnel as required throughout the operations. Progression of water level decline will be monitored throughout; the goal is to draw the water level within the Project limits down where the upstream berm can efficiently be constructed while minimizing impact to water quality and habitat. The natural gradient of the channel being relatively flat essentially holds the water and does not "flow" as a typical creek would.

Establish Upstream Dam and Bypass Piping

The upstream dam will be installed in the same fashion as the downstream, utilizing sandbags and visqueen. The permanent sheet piles will be installed after the system is established. The height of the dam will be of sufficient free board to handle anticipated flows. A long run(s) of 6" up to 12" HDPE bypass piping will be assembled and strung through the existing culverts and along the existing concrete channel to the same point of discharge utilized for draw down activities. There will be a header installed at the upstream dam to allow pump(s) to be operated simultaneously, however the Contractor will implement a siphon utilizing gravity flow to minimize the need for power consumption. The bypass piping will be of sufficient length to allow its location to be manipulated as construction progresses. Once the upstream dam and bypass piping are established, the downstream dam could effectively be removed if unless it is actively holding back downstream water from coming back up the creek and entering the work area. The Contractor will have backup pumps and/or more gravity flow diversion piping materials readily available in the event the system is not keeping up with demands. The

Contractor will regularly inspect the system to assure functionality and compliance are being maintained.

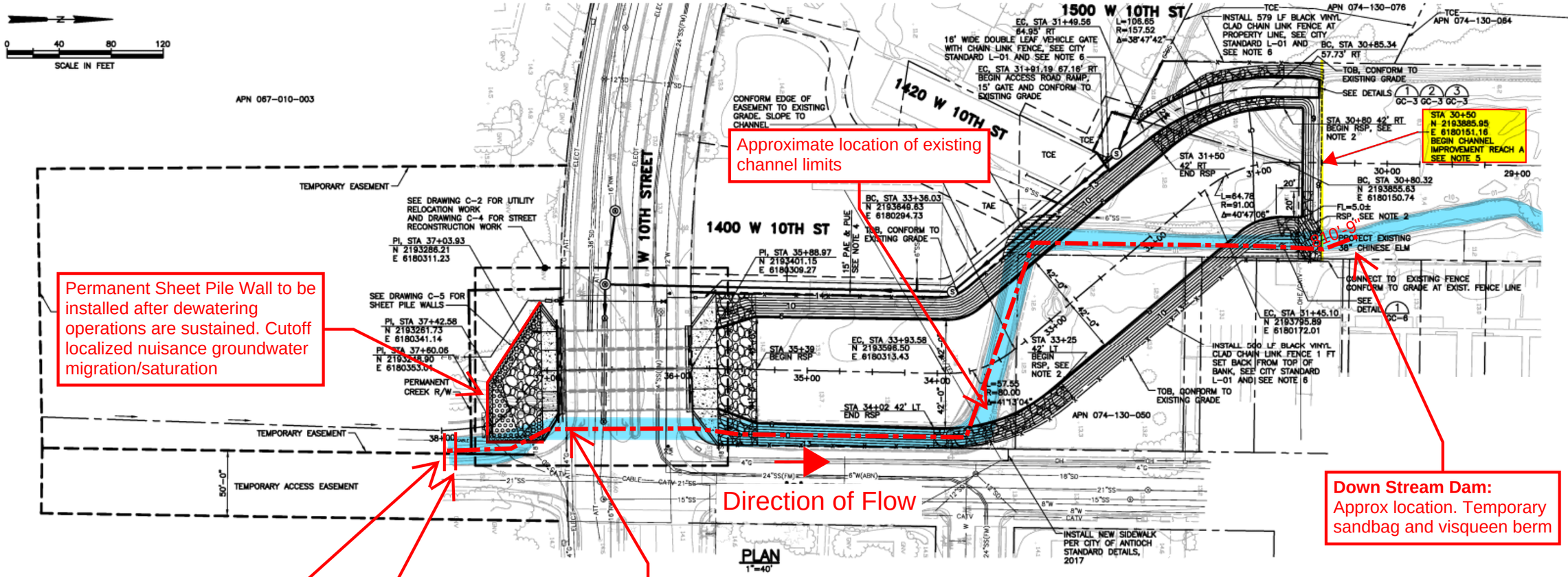
Removal of Dams and Bypass Piping

Upon completion of the creek restoration scope the bypass piping and dams shall be removed and the new creek rewatered. Initially the downstream dam will be removed. Diversion piping flows will be shut off to allow the creek to equalize and the piping removed. The upstream dam and pumps will be removed along with exclusion fencing.

General Notes: Monitoring and sampling shall be performed in accordance with Submittal 006 Stormwater Pollution Prevention Plan. All water diversion intake hoses and pump inlets shall be screened to prevent entrapment or intake of aquatic species and the screen face shall be oriented parallel to the flow of water. The screens shall be made of non-corrosive material and diameter/diagonal openings shall meet the criteria of CDFW and the National Marine Fisheries Service. The screen shall be kept in good repair and cleaned/checked as frequently as possible. All screens shall be supported above the channel bottom. If sediment-laden water from dewatering is encountered it shall be held in a settling container or discharged in upland locations where it will not drain directly into surface water bodies.

Appendix A: Flow Diversion Schematic

Flow Diversion Submittal Schematic



Approximate location of existing channel limits

Permanent Sheet Pile Wall to be installed after dewatering operations are sustained. Cutoff localized nuisance groundwater migration/saturation

Exclusion fencing and debris fence - upstream of intake

Upstream Dam:
Approx location. Temporary sandbag and visqueen berm

Temporary bypass piping. Locations to change per phase of construction, refer to narrative for details

Down Stream Dam:
Approx location. Temporary sandbag and visqueen berm

Initial Draw Down - Assumptions		
Length	1500	LF
Width	4	FT
Depth	2.5	FT
	15000	CF
	7.48	Gal/CF
	112,200	Gallons
	317	Gal/min (3" trash pump)
	354	Minutes of Pumping
	5.90	Hours

ATTACHMENT 3: Soil Analysis Results

eurofins | Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

ACCREDITED
CERTIFICATE #'s 5890.01 & 5890.02

Laboratory Report

for

City of Antioch
Post Office Box 5007
Antioch, CA 94531-5007
Attention: Laura A. Villasana
Fax: 925-779-0272

Date of Issue
06/21/2022

EUROFINS EATON ANALYTICAL, LLC

NELAP ACCREDITED TNI LABORATORY
Utah ELCP CA00006

Report: 1002300
Project: SPECIAL
Group: Soil 2022

ADG: Alejandra D Gomez
Project Manager

* Accredited in accordance with TNI 2016 and ISO/IEC 17025:2017.
* Laboratory certifies that the test results meet all **TNI 2016 and ISO/IEC 17025:2017** requirements unless noted under the individual analysis.
* As applicable, this report consists of the cover page, State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms.
* Test results relate only to the sample(s) tested.
* Test results apply to the sample(s) as received, unless otherwise noted in the comments report (ISO/IEC 17025:2017).
* This report shall not be reproduced except in full, without the written approval of the laboratory.
* This report includes ISO/IEC 17025 and non-ISO 17025 accredited methods.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Montana	Cert 0035
Arizona	AZ0778	Nebraska	NE-OS-21-13
Arkansas	CA00006	Nevada	CA00006
California	2813	New Hampshire *	2959
Colorado	CA00006	New Jersey *	CA 008
Connecticut	PH-0107	New Mexico	CA00006
Delaware	CA 006	New York *	11320
Florida *	E871024	North Carolina	06701
Georgia	947	North Dakota	R-009
Guam	21-008R	Ohio - 537.1	87786
Hawaii	CA00006	Oregon *	4034
Idaho	CA00006	Pennsylvania *	68-00565
Illinois	200033	Puerto Rico	CA00006
Indiana	C-CA-01	Rhode Island	LAO00326
Iowa – Asbestos	413	South Carolina	87016
Kansas *	E-10268	South Dakota	CA11320
Kentucky	90107	Tennessee	TN02839
Louisiana *	LA008	Texas *	T104704230-20-18
Maine	CA00006	Utah (Primary AB) *	CA00006
Maryland	224	Vermont	VT0114
Marianas Islands	MP0004	Virginia *	460260
Massachusetts	M-CA006	Washington	C838
Michigan	9906	EPA Region 5	CA00006
Mississippi	CA00006	Los Angeles County Sanitation Districts	10264

* NELAP/TNI Recognized Accreditation Bodies

ISO/IEC 17025:2917 Accredited Method List

The test listed below are accredited and met the requirements of ISO/IEC 17025 as verify by A2LA.

Refer to our certificates and scope of accreditations (no. 5890-1 and 5890-2) found at:

https://www.eurofinsus.com/Eaton

Test(s)	Method(s)	Potable Water *	Waste Water
Enterococci	Enterolert	x	x
Escherichia coli (Enumeration)	SM 9221 B.1 SM 9221 F	x	
Fecal Coliform (P/A and Enumeration)	SM 9221 C (MTF/EC), SM 9221 E (MTF/EC)	x	x
Fecal Streptococci and Enterococci	SM 9230 B	x	x
Heterotrophic Bacteria	SM 9215 B	x	
Legionella	Legiolert®	x	
Pseudomonas aeruginosa	Idexx Pseudalert	x	
Total Coliform (P/A and Enumeration)	SM 9221A, SM 9221B, SM 9221 C	x	x
Total Coliform, Total Coliform with Chlorine Present	SM 9221 B	x	x
Total Coliform/E. coli (P/A and Enumeration, Idexx Colilert, Idexx Colilert 18, Colisure)	SM 9223	x	
Total Microcystins and Nodularins	EPA 546	X	
Yeast and Mold	SM 9610	x	
1,2,3-Trichloropropane (TCP) at 5 PPT	CA SRL 524M-TCP	x	
1,4-Dioxane	EPA 522	x	
2,3,7,8-TCDD	Modified EPA 1613 B	x	
Acrylamide	+LCMS 2440)	x	
Algal Toxins/Microcystin	+ LCMS 3570	x	
Alkalinity	SM 2320B	x	x
Ammonia	EPA 350.1, SM 4500-NH3 H		x
Asbestos	EPA 100.2	x	x
Bicarbonate Alkalinity as HCO3	SM 2330 B	x	x
BOD/CBOD	SM 5210 B		x
Bromate	+LCMS- 2447	x	
Carbonate as CO3	SM 2330 B	x	x
Carbonyls	EPA 556	x	x
Chemical Oxygen Demand	EPA 410.4, SM 5220D		x
Chlorinated Acids	EPA 515.4	x	
Chlorine Dioxide	Palin Test Chlordio X Plus, SM 4500-CLO2 D	x	
Chlorine, Free, Combined, Total Residual, Chloramines	SM 4500-Cl G	x	
Color	SM2120B	x	
Conductivity	EPA 120.1, SM 2510B	x	x
Corrosivity (Langelier Index), Carbonate as CO3, Hydroxide as OH Calculated	SM 2330 B	x	
Cyanide (Amenable)	SM 4500-CN G	x	x
Cyanide (Free)	SM 4500CN F	x	x
Cyanide (Total)	EPA 335.4	x	x
Cyanogen Chloride (Screen)	+335 Mod (WC-24467)	x	
Diquat and Paraquat	EPA 549.2	x	
DBP and HAA	SM 6251 B	x	
Dissolved Organic Carbon	SM 5310 C	x	
Dissolved Oxygen	SM 4500-O G		x
EDB/DCBP/TCP	EPA 504.1	x	
EDB/DBCP and Disinfection Byproducts	EPA 551.1	x	
EDTA and NTA	+ WC-2454	x	
Endothall	EPA 548.1, +(LCMS-2445)	x	
Fluoride	SM 4500F C	x	x
Glyphosate	EPA 547	x	
Glyphosate and AMPA	+LCMS-3618	x	
Gross Alpha and Gross Beta	EPA 900.0	x	x

Test(s)	Method(s)	Potable Water *	Waste Water
Gross Alpha coprecipitation	SM 7110 C	x	x
Hardness	SM 2340 B	x	x
Hexavalent Chromium	EPA 218.6,	x	x
Hexavalent Chromium	EPA 218.7,	x	
Hexavalent Chromium	SM 3500-Cr B		x
Inorganic Anions and DBPs	EPA 300.0	x	x
Norganic Anions and DBPs	EPA 300.1	x	
Kjeldahl Nitrogen	EPA 351.2		x
Metals	EPA 200.7, EPA200.8	x	x
Nitrosamines	EEA-Agilent 521.1 (GCMS-24250)	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x
Odor	SM2150B	x	
Organohalide Pesticides and PCB	EPA 505	x	
Ortho Phosphate	SM 4500P E	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	
Perchlorate	EPA 331.0	x	
Perchlorate (Low and High Levels)	EPA 314.0	x	
Perfluorinated Alkyl Acids	EPA 533, EPA 537, EPA 537.1	x	
PPCP and EDC	+LCMS-2443	x	
pH	EPA 150.1 SM 4500-H+ B	x	x
Phenolics – Low Level	+WC 2493 (EPA 420.2 and EPA 420.4 MOD)	x	x
Phenylurea Pesticides/Herbicides	+LCMS-2448	x	
Radium-226, Radium-228	GA Tech (Rad-2374)	x	
Radon-222	SM 7500RN	x	
Residue (Filterable)	SM 2540C	x	x
Residue (Non-Filterable)	SM 2540D		x
Residue (Total)	SM 2540B		x
Residue (Volatile)	EPA 160.4		x
Semi-Volatile Compounds	EPA 525.2	x	
Silica	SM 4500-SiO2 C	x	x
Sulfide	SM 4500-S D		x
Sulfite	SM 4500-SO3 B	x	x
Surfactants	SM 5540C	x	x
Taste and Odor	SM 6040 E	x	
Total Organic Carbon	SM 5310 C	x	x
Total Phenols	EPA 420.1		x
Total Phenols	EPA 420.4	x	x
Triazine Pesticides and their Degradates	+LCMS-3617	x	
Turbidity	EPA 180.1	x	x
Uranium by ICP/MS	EPA 200.8	x	
UV 254 Organic Constituents	SM 5910B	x	
VOCs	EPA 524.2	x	
VOCs	+(GCMS 2412) by EPA 524.2 modified	x	

(*) includes: Bottled Water, Drinking Water and Water as Component of Food & Beverage.

(+) In-House Method

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Acknowledgement of Samples Received

Addr: **City of Antioch**
Post Office Box 5007
Antioch, CA 94531-5007

Attn: Laura A. Villasana
Phone: 925-779-7024

Client ID: ANTIOCH-CA
Folder #: 1002300
Project: SPECIAL
Sample Group: Soil 2022

Project Manager: Alejandra D Gomez
Phone: 626-386-1194
PO #: P150193_exp063015_NTE_20K

The following samples were received from you on **April 13, 2022** at **10:00**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical, LLC.

Sample #	Sample ID	Sample Date
202205050002	Site #1	04/12/2022 1150

Antimony TTLC Subbed	Arsenic TTLC Subbed	Barium TTLC Subbed
Beryllium TTLC Subbed	Cadmium TTLC Subbed	Chromium TTLC Subbed
Cobalt TTLC Subbed	Copper TTLC Subbed	Lead TTLC Subbed
Mercury TTLC Subbed	Molybdenum TTLC Subbed	Nickel TTLC Subbed
Selenium TTLC Subbed	Silver TTLC Subbed	Thallium TTLC Subbed
Vanadium TTLC Subbed	Zinc TTLC Subbed	@8081EDD_Solid_Calscience
@8082EDD in ug/kg_Calscience	@8151EDD Solid_Calscience	@8260EDD Soil
@8270C_PAH-SIM_Solid	@8270EDD Solid	@8290_Solid_PM
@RADEDD by EPA 9310	Oil and Grease by 1664 HEM SGT	Oil and Grease Solid_LLI
TPH 8015 Diesel Motor Oil Soil		

Test Description

@8081EDD_Solid_Calscience -- 5157_8081 Standard List

@8082EDD in ug/kg_Calscience -- 8082

@8151EDD Solid_Calscience -- 576 - Chlorinated Herbicides

@8260EDD Soil -- Volatile Organic Compounds by EPA 8260B

@8270C_PAH-SIM_Solid -- 8270C PAH SIM

@8270EDD Solid -- 8270

@8290_Solid_PM -- Dioxin/Furan - MDL and RL reporting

@RADEDD by EPA 9310 -- Gross Alpha/Beta Hazardous Waste

Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, CA 91016-3629

Phone: 626 386 1100
Fax: 626 386 1101

800 566 LABS (800 566 5227)

Website: www.EatonAnalytical.com

CHAIN OF CUSTODY RECORD

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: 1002300

SAMPLES CHECKED AGAINST COC BY: AN

SAMPLES LOGGED IN BY: +

SAMPLE TEMP RECEIVED AT: ☐ _____ (Other) IR Gun ID = _____ (Observation= _____ °C) (Corr.Factor _____ °C) (Final = _____ °C)

☒ Monrovia IR Gun ID = 6180 (Observation= 5.5 °C) (Corr.Factor -0.1 °C) (Final = 5.4 °C)

Compliance Acceptance Criteria: (Chemistry: 4 ± 2 °C) (Microbiology: < 10°C)

SAMPLES REC'D DAY OF COLLECTION? ☐ (check for yes)

TYPE OF ICE: Real ✓ Synthetic _____ No Ice _____ CONDITION OF ICE: Frozen _____ Partially Frozen ✓ Thawed _____ N/A _____

METHOD OF SHIPMENT: Pick-Up / Walk-In / (FedEx) / UPS / DHL / Area Fast / Top Line / Other: _____

#549140391390

TO BE COMPLETED BY SAMPLER:

COMPANY/AGENCY NAME: City of Antioch

PROJECT CODE: Soil Testing

EEA CLIENT CODE: Antioch-CA

COC ID:

SAMPLE GROUP:

COMPLIANCE SAMPLES ☐ (check for yes) - Requires state forms

NON-COMPLIANCE SAMPLES ✓ (check for yes)

REGULATION INVOLVED: _____ (eg. SDWA, NPDES, etc.)

Type of samples (circle one): ROUTINE SPECIAL CONFIRMATION

TAT requested: rush by adv notice only STD ✓ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SEE ATTACHED KIT ORDER FOR ANALYSES ✓ (check for yes), OR

List ALL ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX *	FIELD DATA	FIELD DATA	SAMPLER COMMENTS
4.12.22	11:50	Site #1		SO			
		Site #1		SO			
		Site #1		SO			
		Site #1		SO			

* MATRIX TYPES: RSW = Raw Surface Water; RGW = Raw Ground Water; CFW = Chlor(am)inated Finished Water; FW = Other Finished Water; SEAW = Sea Water; WW = Waste Water; BW = Bottled Water; SW = Storm Water; SO = Soil; SL = Sludge; O = Other - Please Identify

	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
SAMPLED BY:	Edrees Arg	Edrees Argand	City of Antioch	4/12/22	11:50 am
RELINQUISHED BY:	Edrees Arg	Edrees Argand	City of Antioch	4/12/22	2:00 pm
RECEIVED BY:	Ivona Kagin	IVONA KAGIN	City of Antioch	4/12/22	
RELINQUISHED BY:	Ivona Kagin	IVONA KAGIN			
RECEIVED BY:	FedEx				

eurofins | Eaton Analytical

Quote Ref #: Q202203140023

Contact: Laura A. Villasana
Company: City of Antioch
Address: Post Office Box 5007
Antioch, CA 94531-5007

Phone: 925-779-7024
Fax: 925-779-0272
E-mail: waterquality@ci.antioch.ca.us

Sample Matrix: Soil
Testing Frequency: As Needed
Lab Turnaround Time: 15 Days
Estimated Start Date: 25-Mar-2022
Payment Terms: NET 30

We are pleased to submit the following quotation: Prices are firm thru 12/31/2022, provided PO is received within 45 days and prior to receipt of samples. Work may not begin, or is COD, until receipt of a completed vendor application & credit approval. Client is responsible for sample collection and delivery to the lab in acceptable condition within 24 hours. Payment for services is due upon receipt of invoice and not contingent upon third party payments. All other Eurofins Eaton Analytical, LLC standard terms and conditions apply unless otherwise specified herein. Quote does not include any applicable taxes unless noted below.

ITEM	QTY	DESCRIPTION	METHOD	UNIT PRICE	EXT'D PRICE
Inorganics					
	2	Metals - Title 22	EPA 6010B/7470A	$125.00	$250.00
	2	Total Petroleum Hydrocarbons	EPA 1664 SGC	$60.00	$120.00
Organics					
	2	Dioxins & Furans	EPA 8290	$630.00	$1,260.00
	2	Herbicides	EPA 8151	$190.00	$380.00
	2	PCB's	EPA 8082	$90.00	$180.00
	2	Pesticides	EPA 8081A	$125.00	$250.00
	2	Semivolatile Organics	EPA 8270	$195.00	$390.00
	2	Semivolatile Organics - PAHs	EPA 8270 SIM	$145.00	$290.00
	2	TPH - Diesel & Motor Oil	EPA 8015	$75.00	$150.00
	2	Volatile Organics	EPA 8260B	$110.00	$220.00
Radiologicals					
	2	Gross Alpha/Beta	EPA 900.0	$105.00	$210.00
Sample Management					
	1	Sample Kit Delivery	----	$0	$0
Data Deliverables					
	1	Hardcopy Reports (via PDF)	----	$0	$0
	1	QC Level II	----	$0	$0
	1	Website Data Tracking & Mgmt.	----	$0	$0

Grand Total: **$3,700.00**

Notes

1) Gross Alpha & Beta to be performed by Eurofins - St. Louis Lab

2) Dioxins & Furans to be performed by Eurofins - Lancaster Lab

3) EPA 1664, 8015M, 8260/5035, 8270, 8082, 8270 SIM, 8081, 6010/7470, and 8151 to be performed by Eurofins - Calscience (Tustin Lab)

Submitted: Kevin Calcagno Accepted: _____

RECEIPT OF SAMPLES BY EUROFINS EATON ANALYTICAL, LLC CONSTITUTES ACCEPTANCE OF THE ABOVE TERMS & CONDITIONS, NOT WITHSTANDING ANY PROVISIONS TO THE CONTRARY IN CLIENT'S PURCHASE ORDER, UNLESS AN ALTERNATIVE AGREEMENT HAS BEEN SIGNED BY US.

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

eurofins | Eaton Analytical

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Hits

Report: 1002300
Project: SPECIAL
Group: Soil 2022

City of Antioch
Laura A. Villasana
Post Office Box 5007
Antioch, CA 94531-5007

Samples Received on:
04/13/2022 10:00

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
	202205050002	**Site #1**				
06/06/2022 15:35	1,2,3,4,6,7,8-HpCDD		21		ng/kg	6.1
05/23/2022 14:59	Arsenic TTLC Subbed		6.38		mg/kg	2.96
05/23/2022 14:59	Barium TTLC Subbed		117		mg/kg	2.96
05/23/2022 14:59	Beryllium TTLC Subbed		0.567		mg/kg	0.493
05/23/2022 14:59	Chromium TTLC Subbed		16.8		mg/kg	0.985
05/23/2022 14:59	Cobalt TTLC Subbed		7.11		mg/kg	0.985
05/23/2022 14:59	Copper TTLC Subbed		22.6		mg/kg	1.97
06/09/2022 15:53	Gross Alpha (Subbed)		17.5	15	pCi/g	10
06/09/2022 15:53	Gross Beta (Subbed)		14.5		pCi/g	10
05/23/2022 14:59	Lead TTLC Subbed		6.69		mg/kg	1.97
05/23/2022 14:59	Nickel TTLC Subbed		17.4		mg/kg	1.97
06/06/2022 15:35	OCDD		150		ng/kg	12
06/06/2022 15:35	OCDF		13		ng/kg	12
05/13/2022 11:53	Oil and Grease		53.1		mg/kg	49.8
06/06/2022 15:35	Total HpCDD		40		ng/kg	6.1
06/06/2022 15:35	Total HpCDF		10		ng/kg	6.1
06/06/2022 15:35	Total HxCDD		12		ng/kg	6.1
06/06/2022 15:35	Total HxCDF		9.8		ng/kg	6.1
06/06/2022 15:35	Total TCDF		2.9		ng/kg	1.2
05/23/2022 14:59	Vanadium TTLC Subbed		35.3		mg/kg	0.985
05/23/2022 14:59	Zinc TTLC Subbed		54.1		mg/kg	4.93

SUMMARY OF POSITIVE DATA ONLY

eurofins | Eaton Analytical

Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 1002300
Project: SPECIAL
Group: Soil 2022

City of Antioch
Laura A. Villasana
Post Office Box 5007
Antioch, CA 94531-5007

Samples Received on:
04/13/2022 10:00

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
Site #1 (202205050002)							**Sampled on 04/12/2022 1150**		
		EPA 8270C - 8270							
05/12/22	05/18/22 15:30			(EPA 8270C)	1,2,4-Trichlorobenzene	ND (H H3)	mg/kg	2	1
05/12/22	05/18/22 15:30			(EPA 8270C)	1,2-Dichlorobenzene	ND (H H3)	mg/kg	0.98	1
05/12/22	05/18/22 15:30			(EPA 8270C)	1,3-Dichlorobenzene	ND (H H3)	mg/kg	0.98	1
05/12/22	05/18/22 15:30			(EPA 8270C)	1,4-Dichlorobenzene	ND (H H3)	mg/kg	0.98	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2,4,5-Trichlorophenol	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2,4,6-Trichlorophenol	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2,4-Dichlorophenol	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2,4-Dimethylphenol	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2,4-Dinitrophenol	ND (H H3)	mg/kg	2	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2,4-Dinitrotoluene	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2,6-Dinitrotoluene	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2-chloronaphthalene	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2-chlorophenol	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2-methylnaphthalene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2-methylphenol	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2-nitroaniline	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2-nitrophenol	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	3,3-Dichlorobenzidine	ND (H H3)	mg/kg	2.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	3-nitroaniline	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	4,6-Dinitro-2-methylphenol	ND (H H3)	mg/kg	2.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	4-Bromophenylphenylether	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	4-Chloro-3-methylphenol	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	4-Chloroaniline	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	4-Chlorophenylphenylether	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	4-methylphenol	ND (H H3)	mg/kg	1	1
05/12/22	05/18/22 15:30			(EPA 8270C)	4-Nitroaniline	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	4-Nitrophenol	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	acenaphthene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	acenaphthylene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	anthracene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	azobenzene	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	benzidine	ND (H H3 *-)	mg/kg	5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	benzo(a)anthracene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	benzo(a)pyrene	ND (H H3)	mg/kg	0.02	1

Rounding on totals after summation.
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Tel: (626) 386-1100
Fax: (866) 988-3757
1 800 566 LABS (1 800 566 5227)

Laboratory Data

Report: 1002300
Project: SPECIAL
Group: Soil 2022

City of Antioch
Laura A. Villasana
Post Office Box 5007
Antioch, CA 94531-5007

Samples Received on:
04/13/2022 10:00

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
05/12/22	05/18/22 15:30			(EPA 8270C)	benzo(b)fluoranthene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	benzo(ghi)perylene	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	benzo(k)fluoranthene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Benzoic Acid	ND (H H3)	mg/kg	2.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Benzyl Alcohol	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	bis(2-Chloroethoxy)methane	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	bis(2-chloroethyl)ether	ND (H H3)	mg/kg	2.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	bis(2-Chloroisopropyl)ether	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	bis(2-ethylhexyl)phthalate	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Butylbenzylphthalate	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Chrysene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	dibenzo(a.h)anthracene	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	dibenzofuran	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Diethylphthalate	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Dimethylphthalate	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Di-N-butylphthalate	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Di-N-octylphthalate	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Fluoranthene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Fluorene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Hexachlorobenzene	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Hexachlorobutadiene	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Hexachlorocyclopentadiene	ND (H H3)	mg/kg	1.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Hexachloroethane	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Indeno(1,2,3,c,d)Pyrene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Isophorone	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Naphthalene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Nitrobenzene	ND (H H3)	mg/kg	2	1
05/12/22	05/18/22 15:30			(EPA 8270C)	N-nitrosodimethylamine	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	N-nitroso-di-n-propylamine	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	N-nitroso-diphenylamine	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	pentachlorophenol	ND (H H3)	mg/kg	2.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Phenanthrene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Phenol	ND (H H3)	mg/kg	0.5	1
05/12/22	05/18/22 15:30			(EPA 8270C)	Pyrene	ND (H H3)	mg/kg	0.02	1
05/12/22	05/18/22 15:30			(EPA 8270C)	2,4,6-Tribromophenol	64	%		1
05/12/22	05/18/22 15:30			(EPA 8270C)	2-Fluorobiphenyl	55	%		1
05/12/22	05/18/22 15:30			(EPA 8270C)	2-Fluorophenol	68	%		1

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Laboratory Data

Report: 1002300
Project: SPECIAL
Group: Soil 2022

City of Antioch
Laura A. Villasana
Post Office Box 5007
Antioch, CA 94531-5007

Samples Received on:
04/13/2022 10:00

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
05/12/22	05/18/22 15:30			(EPA 8270C)	Nitrobenzene-d5	52	%		1
05/12/22	05/18/22 15:30			(EPA 8270C)	Phenol-d5	70	%		1
05/12/22	05/18/22 15:30			(EPA 8270C)	Terphenyl-d14	58	%		1
		EPA 6010 - Chromium TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Chromium TTLC Subbed	16.8	mg/kg	0.985	5
		EPA 6010 - Arsenic TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Arsenic TTLC Subbed	6.38	mg/kg	2.96	5
		EPA 6010 - Nickel TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Nickel TTLC Subbed	17.4	mg/kg	1.97	5
		EPA 6010 - Barium TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Barium TTLC Subbed	117	mg/kg	2.96	5
		EPA 6010 - Antimony TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Antimony TTLC Subbed	ND	mg/kg	9.85	5
		EPA 6010 - Cadmium TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Cadmium TTLC Subbed	ND (J)	mg/kg	0.493	5
		EPA 6010 - Beryllium TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Beryllium TTLC Subbed	0.567	mg/kg	0.493	5
		EPA 6010 - Cobalt TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Cobalt TTLC Subbed	7.11	mg/kg	0.985	5
		EPA 6010 - Copper TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Copper TTLC Subbed	22.6	mg/kg	1.97	5
		EPA 6010 - Lead TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Lead TTLC Subbed	6.69	mg/kg	1.97	5
		EPA 6010 - Molybdenum TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Molybdenum TTLC Subbed	ND (J)	mg/kg	1.97	5
		EPA 6010 - Selenium TTLC Subbed							
05/21/22	05/18/22 05:50			(EPA 6010)	Selenium TTLC Subbed	ND	mg/kg	3.08	5
		EPA 6010 - Silver TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Silver TTLC Subbed	ND	mg/kg	1.48	5
		EPA 6010 - Thallium TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Thallium TTLC Subbed	ND	mg/kg	9.85	5
		EPA 6010 - Vanadium TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Vanadium TTLC Subbed	35.3	mg/kg	0.985	5
		EPA 6010 - Zinc TTLC Subbed							
05/21/22	05/23/22 14:59			(EPA 6010)	Zinc TTLC Subbed	54.1	mg/kg	4.93	5
		EPA 7471A - Mercury TTLC Subbed							
05/12/22	05/13/22 15:19			(EPA 7471A)	Mercury TTLC Subbed	ND (J H)	mg/kg	0.0801	1
		EPA 8260B - Volatile Organic Compounds by EPA 8260B							

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Samples Received on:
04/13/2022 10:00

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
05/17/22	05/17/22 03:10			(EPA 8260B)	1,1,1,2-Tetrachloroethane	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,1,1-Trichloroethane	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,1,2,2-Tetrachloroethane	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,1,2-Trichloro-1,2,2-trifluoroethane	ND (H H3)	ug/kg	9.8	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,1,2-Trichloroethane	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,1-Dichloroethane	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,1-Dichloroethene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,1-Dichloropropene	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,2,3-Trichlorobenzene	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,2,3-Trichloropropane	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,2,4-Trichlorobenzene	ND (H H3)	ug/kg	0.5	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,2,4-Trimethylbenzene	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,2-Dibromo-3-chloropropane	ND (H H3)	ug/kg	9.8	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,2-Dibromoethane	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,2-Dichlorobenzene	ND (H H3)	ug/kg	0.5	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,2-Dichloroethane	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,2-Dichloropropane	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,3,5-Trimethylbenzene	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,3-Dichlorobenzene	ND (H H3)	ug/kg	0.5	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,3-Dichloropropane	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,4-Dichlorobenzene	ND (H H3)	ug/kg	0.5	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1-Chlorohexane	NA	ug/kg	23	1
05/17/22	05/17/22 03:10			(EPA 8260B)	2,2-Dichloropropane	ND (H H3)	ug/kg	4.9	1
05/17/22	05/17/22 03:10			(EPA 8260B)	2-Butanone (MEK)	ND (H H3)	ug/kg	20	1
05/17/22	05/17/22 03:10			(EPA 8260B)	2-Chlorotoluene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	2-Hexanone	ND (H H3 *+)	ug/kg	20	1
05/17/22	05/17/22 03:10			(EPA 8260B)	4-chlorotoluene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	4-Isopropyltoluene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	4-methyl-2-Pentanone	ND (H H3)	ug/kg	20	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Acetone	ND (H H3 F1)	ug/kg	20	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Acrolein	NA	ug/kg		1
05/17/22	05/17/22 03:10			(EPA 8260B)	Acrylonitrile	NA	ug/kg		1
05/17/22	05/17/22 03:10			(EPA 8260B)	Benzene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Bromobenzene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Bromochloromethane	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Bromodichloromethane	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Bromoform	ND (H H3)	ug/kg	4.9	1

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Samples Received on:
04/13/2022 10:00

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
05/17/22	05/17/22 03:10			(EPA 8260B)	Bromomethane	ND (H H3)	ug/kg	20	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Carbon disulfide	ND (H H3)	ug/kg	9.8	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Carbon Tetrachloride	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Chlorobenzene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Chloroethane	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Chloroform	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Chloromethane	ND (H H3)	ug/kg	20	1
05/17/22	05/17/22 03:10			(EPA 8260B)	cis-1,2-Dichloroethene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	cis-1,3-Dichloropropene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Dibromochloromethane	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Dibromomethane	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Dichlorodifluoromethane	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	DIPE	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Ethanol	ND (H H3)	ug/kg	250	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Ethyl Acetate	NA	ug/kg	23	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Ethyl t-butyl ether	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Ethylbenzene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Ethylene Dibromide	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	hexachlorobutadiene	NA	ug/kg	23	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Isopropylbenzene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	m,p-Xylenes	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Methyl Tert-butyl ether (MTBE)	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Methylene chloride	ND (H H3)	ug/kg	9.8	1
05/17/22	05/17/22 03:10			(EPA 8260B)	naphthalene	ND (H H3)	ug/kg	9.8	1
05/17/22	05/17/22 03:10			(EPA 8260B)	n-Butylbenzene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	n-Propylbenzene	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	o-Xylene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	p-Isopropyltoluene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	sec-Butylbenzene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Styrene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	TAME	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	tert-Butylbenzene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Tertiary Butyl Alcohol	ND (H H3)	ug/kg	20	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Tetrachloroethene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Tetrachloroethylene (PCE)	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Toluene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Total xylenes	ND (H H3)	ug/kg	2	1

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Laboratory Data

Report: 1002300
Project: SPECIAL
Group: Soil 2022

City of Antioch
Laura A. Villasana
Post Office Box 5007
Antioch, CA 94531-5007

Samples Received on:
04/13/2022 10:00

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
05/17/22	05/17/22 03:10			(EPA 8260B)	trans-1,2-Dichloroethene	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	trans-1,3-Dichloropropene	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Trichloroethene	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Trichloroethylene (TCE)	ND (H H3)	ug/kg	2	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Trichlorofluoromethane	ND (H H3)	ug/kg	9.8	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Vinyl Acetate	ND (H H3 F1)	ug/kg	9.8	1
05/17/22	05/17/22 03:10			(EPA 8260B)	Vinyl chloride	ND (H H3)	ug/kg	0.98	1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,2-Dichlorobenzene-d4	92	%		1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,2-Dichloroethane-d4	92	%		1
05/17/22	05/17/22 03:10			(EPA 8260B)	1,4-Difluorobenzene	97	%		1
05/17/22	05/17/22 03:10			(EPA 8260B)	4-Bromofluorobenzene	97	%		1
05/17/22	05/17/22 03:10			(EPA 8260B)	Dibromofluoromethane	98	%		1
05/17/22	05/17/22 03:10			(EPA 8260B)	Toluene-d8	100	%		1
		EPA 9310 - Gross Alpha/Beta Hazardous Waste							
	06/09/22 15:53			(EPA 9310)	Alpha Min Detect Activity	12.6	pCi/g		1
	06/09/22 15:53			(EPA 9310)	Beta Min Detect Activity	7.69	pCi/g		1
	06/09/22 15:53			(EPA 9310)	Beta Two Sigma Error	5.91	pCi/g		1
	06/09/22 15:53			(EPA 9310)	Gross Alpha (Subbed)	17.5 (G)	pCi/g	10	1
	06/09/22 15:53			(EPA 9310)	Gross Alpha Two Sigma Error	9.41	pCi/g		1
	06/09/22 15:53			(EPA 9310)	Gross Beta (Subbed)	14.5	pCi/g	10	1
		EPA8290 - Dioxin/Furan - MDL and RL reporting							
06/03/22	06/06/22 15:35			(EPA8290)	1,2,3,4,6,7,8-HpCDD	21 (H H3 B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	1,2,3,4,6,7,8-HpCDF	ND (J H H3 q B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	1,2,3,4,7,8,9-HpCDF	ND (J H H3 B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	1,2,3,4,7,8-HxCDD	ND (J H H3 q B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	1,2,3,4,7,8-HxCDF	ND (J H H3 q B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	1,2,3,6,7,8-HxCDD	ND (J H H3 B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	1,2,3,6,7,8-HxCDF	ND (J H H3 B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	1,2,3,7,8,9-HxCDD	ND (J H H3 B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	1,2,3,7,8,9-HxCDF	ND (J H H3 B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	1,2,3,7,8-PeCDD	ND (J H H3 B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	1,2,3,7,8-PeCDF	ND (J H H3 B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	2,3,4,6,7,8-HxCDF	ND (J H H3 B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	2,3,4,7,8-PeCDF	ND (J H H3 B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	2,3,7,8-TCDD	ND (H H3)	ng/kg	1.2	1
06/03/22	06/06/22 15:35			(EPA8290)	2,3,7,8-TCDF	ND (J H H3 B)	ng/kg	1.2	1
06/03/22	06/06/22 15:35			(EPA8290)	OCDD	150 (H H3 B)	ng/kg	12	1

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06/03/22	06/06/22 15:35			(EPA8290)	OCDF	13 (H H3 B)	ng/kg	12	1
06/03/22	06/06/22 15:35			(EPA8290)	Total HpCDD	40 (H H3 B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	Total HpCDF	10 (H H3 q B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	Total HxCDD	12 (H H3 q B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	Total HxCDF	9.8 (H H3 q B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	Total PeCDD	ND (J H H3 q B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	Total PeCDF	ND (J H H3 q B)	ng/kg	6.1	1
06/03/22	06/06/22 15:35			(EPA8290)	Total TCDD	ND (J H H3 q)	ng/kg	1.2	1
06/03/22	06/06/22 15:35			(EPA8290)	Total TCDF	2.9 (H H3 q B)	ng/kg	1.2	1
	SW-846 9071B - Oil and Grease								
	05/13/22 11:53			(SW-846 9071B)	Oil and Grease	53.1 (H)	mg/kg	49.8	1
	EPA 8270C - 8270C PAH SIM								
	05/18/22 15:30			(EPA 8270C)	1,6,7-Trimethylnaphthalene	NA	mg/kg		1
	05/18/22 15:30			(EPA 8270C)	1-Methylnaphthalene	ND (H H3)	mg/kg	0.02	1
	05/18/22 15:30			(EPA 8270C)	1-Methylphenanthrene	NA	mg/kg		1
	05/18/22 15:30			(EPA 8270C)	2,6-Dimethylnaphthalene	NA	mg/kg		1
	05/18/22 15:30			(EPA 8270C)	2-methylnaphthalene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	acenaphthylene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	Acenapthene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	anthracene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	benzo(a)anthracene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	benzo(a)pyrene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	benzo(b)fluoranthene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	Benzo(e)pyrene	NA (H H3)	mg/kg	0.01	1
	05/18/22 15:30			(EPA 8270C)	Benzo(g,h,i)perylene	ND (H H3)	mg/kg	0.02	1
	05/18/22 15:30			(EPA 8270C)	benzo(k)fluoranthene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	Biphenyl	NA	mg/kg	0.01	1
	05/18/22 15:30			(EPA 8270C)	chrysene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	Dibenz(a,h)Anthracene	ND (H H3)	mg/kg	0.02	1
	05/18/22 15:30			(EPA 8270C)	Dibenzothiophene	NA	mg/kg	0.01	1
	05/18/22 15:30			(EPA 8270C)	fluoranthene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	fluorene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	Indeno(1,2,3,c,d)Pyrene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	naphthalene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	Perylene	NA	mg/kg	0.01	1
	05/18/22 15:30			(EPA 8270C)	phenanthrene	ND (H H3)	mg/kg	0.5	1
	05/18/22 15:30			(EPA 8270C)	pyrene	ND (H H3)	mg/kg	0.5	1

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Laboratory Data

Report: 1002300
Project: SPECIAL
Group: Soil 2022

City of Antioch
Laura A. Villasana
Post Office Box 5007
Antioch, CA 94531-5007

Samples Received on:
04/13/2022 10:00

Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
	05/18/22 15:30			(EPA 8270C)	Total PAH	NA	mg/kg	0.01	1
	05/18/22 15:30			(EPA 8270C)	Dibutylchlorendate	NA	%		1
	05/18/22 15:30			(EPA 8270C)	Tetrachlorometaxylene	75	%		1
		EPA 1664 HEM-SGT - Oil and Grease by 1664 HEM SGT							
	05/13/22 11:53			(EPA 1664 HEM-SGT)	Oil and Grease with SGT	ND (J H)	mg/kg	49.8	1
		EPA 8151A - 576 - Chlorinated Herbicides							
	05/19/22 23:30	(1)		(EPA 8151A)	2,4,5-T	ND (H H3 *+)	ug/kg	9.9	1
	05/19/22 23:30	(1)		(EPA 8151A)	2,4,5-TP (Silvex)	ND (H H3 *1)	ug/kg	9.9	1
	05/19/22 23:30	(1)		(EPA 8151A)	2,4-D	ND (H H3)	ug/kg	99	1
	05/19/22 23:30	(1)		(EPA 8151A)	2,4-DB	ND (H H3 *+ *1)	ug/kg	99	1
	05/19/22 23:30	(1)		(EPA 8151A)	Dalapon	ND (H H3)	ug/kg	250	1
	05/19/22 23:30	(1)		(EPA 8151A)	Dicamba	ND (H H3)	ug/kg	9.9	1
	05/19/22 23:30	(1)		(EPA 8151A)	Dichlorprop	ND (H H3 *1)	ug/kg	99	1
	05/19/22 23:30	(1)		(EPA 8151A)	Dinoseb	ND (H H3 *1)	ug/kg	99	1
	05/19/22 23:30	(1)		(EPA 8151A)	MCPA	ND (H H3 *1)	ug/kg	9900	1
	05/19/22 23:30	(1)		(EPA 8151A)	MCPP	ND (H H3*1)	ug/kg	9900	1
	05/19/22 23:30	(1)		(EPA 8151A)	2,4-Dichlorophenylacetic acid	112	%		1
		EPA 8082 - 8082							
	05/16/22 13:23	(1)		(EPA 8082)	Aroclor 1016	ND (H H3)	ug/kg	50	1
	05/16/22 13:23	(1)		(EPA 8082)	Aroclor 1221	ND (H H3)	ug/kg	50	1
	05/16/22 13:23	(1)		(EPA 8082)	Aroclor 1232	ND (H H3)	ug/kg	50	1
	05/16/22 13:23	(1)		(EPA 8082)	Aroclor 1242	ND (H H3)	ug/kg	50	1
	05/16/22 13:23	(1)		(EPA 8082)	Aroclor 1248	ND (H H3)	ug/kg	50	1
	05/16/22 13:23	(1)		(EPA 8082)	Aroclor 1254	ND (H H3)	ug/kg	50	1
	05/16/22 13:23	(1)		(EPA 8082)	Aroclor 1260	ND (H H3)	ug/kg	50	1
	05/16/22 13:23	(1)		(EPA 8082)	Aroclor 1262	ND (H H3)	ug/kg	50	1
	05/16/22 13:23	(1)		(EPA 8082)	Aroclor 1268	ND (H H3)	ug/kg	50	1
	05/16/22 13:23	(1)		(EPA 8082)	2,4,5,6-tetrachloro-m-xylene	61	%		1
	05/16/22 13:23	(1)		(EPA 8082)	Decachlorobiphenyl	78	%		1
		EPA 8015M - 6231 Motor Oil and 6232 Diesel							
05/12/22	05/14/22 03:26			(EPA 8015M)	Diesel	ND (H H3)	mg/kg	4.8	1
05/12/22	05/14/22 03:26			(EPA 8015M)	Motor Oil	ND (H H3)	mg/kg	24	1
		EPA 8081A - 5157_8081 Standard List							
	05/16/22 08:17	(1)		(EPA 8081A)	4,4-DDD	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	4,4-DDE	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	4,4-DDT	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Aldrin	ND (H H3)	ug/kg	5	1

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Prepped	Analyzed	Prep Batch	Analytical Batch	Method	Analyte	Result	Units	MRL	Dilution
	05/16/22 08:17	(1)		(EPA 8081A)	alpha-BHC	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	beta-BHC	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Chlordane (technical)	ND (H H3)	ug/kg	25	1
	05/16/22 08:17	(1)		(EPA 8081A)	delta-BHC	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Dieldrin	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Endosulfan I	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Endosulfan II	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Endosulfan Sulfate	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Endrin	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Endrin Aldehyde	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Endrin Ketone	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	gamma-BHC (Lindane)	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Heptachlor	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Heptachlor Epoxide	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Methoxychlor	ND (H H3)	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Total Pesticides	ND	ug/kg	5	1
	05/16/22 08:17	(1)		(EPA 8081A)	Toxaphene	ND (H H3)	ug/kg	25	1
	05/16/22 08:17	(1)		(EPA 8081A)	Decachlorobiphenyl	80	%		1
	05/16/22 08:17	(1)		(EPA 8081A)	Tetrachloro-m-xylene	61	%		1

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Folder Comments

Results for 8270C, 8260B, 8015B Diesel Range Organics, 8081, 8082, 8151, Metals and Oil and Grease are submitted by Eurofins Calscience in Tustin CA
Results for 8290A Dioxins and Furans are submitted by Eurofins Sacramento, West Sacramento, CA CA cert 2897 exp 1-31-23
Analytical results for Gross Alpha and Gross Beta are submitted by Eurofins St. Louis, Earth City, MO

Flags Legend:

H- (FL only) Value based on field kit determination; results may not be accurate. (Not acceptable for compliance)
J - Analyte is positively identified, but tentatively quantified as an estimate concentration. The analyte was either detected between MDL and MRL or did not meet any one of the required QC criteria.

The Comments Report may be blank if there are no comments for this report.

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

Laboratory Job ID: 160-45718-1
Laboratory Sample Delivery Group: Site #1
Client Project/Site: 1002300

For:
Eurofins Eaton Analytical
750 Royal Oaks Drive
Monrovia, California 91016

Attn: Monrovia Report To

Authorized for release by:
6/13/2022 10:06:42 AM

Jayna Awalt, Project Manager II
(314)298-8566
Jayna.Awalt@et.eurofinsus.com

Table of Contents

Case Narrative

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 160-45718-1
SDG: Site #1

Job ID: 160-45718-1

Laboratory: Eurofins St. Louis

Narrative

Job Narrative
160-45718-1

Receipt
The sample was received on 5/18/2022 10:30 AM. 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 was 2.9º C.

RAD
Any minimum detectable concentration (MDC), critical value (DLC), or Safe Drinking Water Act detection limit (SDWA DL) is sample-specific unless otherwise stated elsewhere in this narrative. Radiochemistry sample results are reported with the count date/time applied as the Activity Reference Date.

The detection goal was not met for the following sample(s). The samples and batch QC were prepped at full volume. Matrix interferences are suspected because the method blank achieved the detection goal demonstrating acceptable sample preparation and instrument performance: 202205050002 (160-45718-1). Analytical results are reported with the detection limit achieved.

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

eurofins | Eaton Analytical

Submittal Form

Date: 5/16/2022

Ship To:
`TestAmerica St Louis
13715 Rider Trail North

Earth City, MO 63045

Phone: 314-298-8566 Fax: 314-298-8757

Folder #: 1002300 **Report Due:** 05/11/2022

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # **1002300** Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com
Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical, LLC
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified StateCertification # and Exp Date for requested tests + matrix.

Samples from: **CALIFORNIA**

Sample ID	Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID
202205050002	Site #1	04/12/22 1150	DW		JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

Method	Prep Method	Analysis Requested
EPA 9310		Gross Alpha/Beta Hazardous Waste

160-45718 Chain of Custody

Relinquished by: Sample Control Date _____ Time _____

Received by: Fedex Date _____ Time _____

Relinquished by: Sample Control Date _____ Time _____

Received by: _____ Date 5/18/22 Time 1030

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Login Sample Receipt Checklist

Client: Eurofins Eaton Analytical

Job Number: 160-45718-1
SDG Number: Site #1

Login Number: 45718
List Number: 1
Creator: Booker, Autumn R

List Source: Eurofins St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Definitions/Glossary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 160-45718-1
SDG: Site #1

Qualifiers

Rad

Qualifier	Qualifier Description
G	The Sample MDC is greater than the requested RL.
U	Result is less than the sample detection limit.

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

Method Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 160-45718-1
SDG: Site #1

Method	Method Description	Protocol	Laboratory
9310	Gross Alpha / Beta (GFPC)	SW846	TAL SL
Dry and Grind	Preparation, Dry and Grind	None	TAL SL
Thin_Layer	Preparation, Thin Layer Technique	None	TAL SL

Protocol References:

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SL = Eurofins St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 160-45718-1
SDG: Site #1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-45718-1	202205050002	Solid	04/12/22 11:50	05/18/22 10:30

Client Sample Results

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 160-45718-1
SDG: Site #1

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/18/22 10:30

Lab Sample ID: 160-45718-1
Matrix: Solid

Method: 9310 - Gross Alpha / Beta (GFPC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	17.5	G	9.19	9.41	10.0	12.6	pCi/g	06/09/22 10:15	06/09/22 15:53	1
Gross Beta	14.5		5.72	5.91	10.0	7.69	pCi/g	06/09/22 10:15	06/09/22 15:53	1

Method: 9310 - Gross Alpha / Beta (GFPC)

Lab Sample ID: MB 160-569238/1-A
Matrix: Solid
Analysis Batch: 569272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 569238

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Gross Alpha	3.703	U	3.31	3.34	10.0	5.19	pCi/g	06/09/22 10:15	06/09/22 15:53	1
Gross Beta	3.811		1.44	1.49	10.0	1.94	pCi/g	06/09/22 10:15	06/09/22 15:53	1

Lab Sample ID: LCS 160-569238/2-A
Matrix: Solid
Analysis Batch: 569272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 569238

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec Limits
Gross Alpha	27.1	29.35		8.14	10.0	7.22	pCi/g	108	60 - 140
Gross Beta	26.8	25.05		4.93	10.0	4.30	pCi/g	93	60 - 140

Lab Sample ID: 160-45718-1 DU
Matrix: Solid
Analysis Batch: 569272

Client Sample ID: 202205050002
Prep Type: Total/NA
Prep Batch: 569238

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Gross Alpha	17.5	G	14.14		6.94	10.0	8.72	pCi/g	0.20	1
Gross Beta	14.5		13.70		4.42	10.0	5.10	pCi/g	0.08	1

QC Association Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 160-45718-1
SDG: Site #1

Rad

Leach Batch: 568753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-45718-1	202205050002	Total/NA	Solid	Dry and Grind	
160-45718-1 DU	202205050002	Total/NA	Solid	Dry and Grind	

Prep Batch: 569238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-45718-1	202205050002	Total/NA	Solid	Thin_Layer	568753
MB 160-569238/1-A	Method Blank	Total/NA	Solid	Thin_Layer	
LCS 160-569238/2-A	Lab Control Sample	Total/NA	Solid	Thin_Layer	
160-45718-1 DU	202205050002	Total/NA	Solid	Thin_Layer	568753

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-95147-1
Client Project/Site: 1002300

For:
Eurofins Eaton Analytical
750 Royal Oaks Drive
Monrovia, California 91016

Attn: Jaclyn Contreras

Authorized for release by:
5/27/2022 4:24:16 PM
Sheila Luu, Project Mgmt. Assistant
Sheila.Luu@et.eurofinsus.com

Designee for

Xuan Dang, Project Manager I
(714)895-5494
Xuan.Dang@et.eurofinsus.com

Table of Contents

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.
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.

Metals

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Job ID: 570-95147-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-95147-1

Comments
No additional comments.

Receipt
The sample was received on 5/6/2022 10:15 AM. 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 was 1.9º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for preparation batch 570-234601 and analytical batch 570-234588 recovered outside control limits for the following analyte: 2-Hexanone. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The following sample was requested outside of holding time: 202205050002 (570-95147-1).

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-234601 and analytical batch 570-234588 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike and duplicate (MS/MSD) associated with parent sample (570-95147-C-1-C MS) and (570-95147-C-1-D MSD) were analyzed outside of the 12-hour tune window. The associated laboratory control sample and duplicate (LCS/LCSD) were analyzed within the 12-hour tune window. LCS/LCSD precision and accuracy met acceptance criteria.

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

GC/MS Semi VOA
Method 8270C: The following analyte(s) recovered outside control limits for the LCSD associated with preparation batch 570-233796 and analytical batch 570-235117: Benzidine. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-233796 and analytical batch 570-235117 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C: The following sample was prepared outside of preparation holding time : 202205050002 (570-95147-1).

Method 8270C SIM: The following sample was prepared outside of preparation holding time : 202205050002 (570-95147-1).

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

GC Semi VOA
Method 8015B: The following sample was received outside of holding time: 202205050002 (570-95147-1).

Method 8081A: The following sample was prepared outside of preparation holding time: 202205050002 (570-95147-1).

Method 8081A: The continuing calibration verification (CCV) associated with 570-234290 recovered high and outside the control limits for 4,4'-DDE on one column. Results are confirmed on both columns and reported from the passing column. The associated sample is: 202205050002 (570-95147-1).

Method 8081A: The following samples were diluted due to abundance of non-target analytes: (570-95533-A-61-B MS) and (570-95533-A-61-C MSD). Because of this dilution, the matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Job ID: 570-95147-1 (Continued)

Laboratory: Eurofins Calscience (Continued)

Method 8081A: The closing continuing calibration verification (CCV) associated with batch 570-234290 recovered above the upper control limit for 4,4'-DDD, 4,4'-DDE and 4,4'-DDT. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: 202205050002 (570-95147-1).

Method 8082: The following sample was prepared outside of preparation holding time : 202205050002 (570-95147-1).

Method 8151A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-234174 and analytical batch 570-235557 recovered outside control limits for the following analytes: 2,4,5-T, 2,4-DB, Dichlorprop, Dinoseb, MCPA, MCPP and 2,4,5-TP

Method 8151A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 570-234174 and analytical batch 570-235557 recovered outside control limits for the following analytes: 2,4,5-T and 2,4-DB. 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 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries of Selenium for preparation batch 570-233806 and analytical batch 570-235048 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries of Silver, Arsenic, Cadmium, Copper, Molybdenum, Lead, Antimony, Thallium and Zinc for preparation batch 570-236024 and analytical batch 570-236320 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471A: The following sample was analyzed outside of analytical holding time due to an error in sample queue scheduling: 202205050002 (570-95147-1).

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

Organic Prep

Method 1664A: The following sample was prepared outside of preparation holding time per change order : 202205050002 (570-95147-1).

Method 8151A: The following sample was received outside of holding time: 202205050002 (570-95147-1).

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

VOA Prep

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

Detection Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Client Sample ID: 202205050002 — Lab Sample ID: 570-95147-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.7	J H H3	4.8	3.7	mg/Kg	1		8015B	Total/NA
TPH as Motor Oil (C17-C44)	20	J H H3	24	11	mg/Kg	1		8015B	Total/NA
Arsenic	6.38		2.96	1.37	mg/Kg	5		6010B	Total/NA
Barium	117		2.96	0.140	mg/Kg	5		6010B	Total/NA
Beryllium	0.567		0.493	0.0680	mg/Kg	5		6010B	Total/NA
Cadmium	0.209	J	0.493	0.0818	mg/Kg	5		6010B	Total/NA
Chromium	16.8		0.985	0.183	mg/Kg	5		6010B	Total/NA
Cobalt	7.11		0.985	0.203	mg/Kg	5		6010B	Total/NA
Copper	22.6		1.97	0.944	mg/Kg	5		6010B	Total/NA
Lead	6.69		1.97	0.403	mg/Kg	5		6010B	Total/NA
Molybdenum	0.320	J	1.97	0.186	mg/Kg	5		6010B	Total/NA
Nickel	17.4		1.97	0.357	mg/Kg	5		6010B	Total/NA
Vanadium	35.3		0.985	0.166	mg/Kg	5		6010B	Total/NA
Zinc	54.1		4.93	1.14	mg/Kg	5		6010B	Total/NA
Mercury	0.0535	J H	0.0801	0.0130	mg/Kg	1		7471A	Total/NA
HEM: Oil and Grease	53.1	H	49.8	30.0	mg/Kg	1		1664A	Total/NA
HEM-SGT: Oil and Grease	29.9	J H	49.8	13.8	mg/Kg	1		1664A	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H H3	0.98	0.29	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1,1-Trichloroethane	ND	H H3	0.98	0.23	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1,2,2-Tetrachloroethane	ND	H H3	2.0	0.54	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H H3	9.8	0.46	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1,2-Trichloroethane	ND	H H3	0.98	0.46	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1-Dichloroethane	ND	H H3	0.98	0.28	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1-Dichloroethene	ND	H H3	0.98	0.26	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1-Dichloropropene	ND	H H3	2.0	0.38	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2,3-Trichlorobenzene	ND	H H3	2.0	0.98	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2,3-Trichloropropane	ND	H H3	2.0	0.41	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2,4-Trichlorobenzene	ND	H H3	2.0	0.40	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2,4-Trimethylbenzene	ND	H H3	2.0	0.59	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2-Dibromo-3-Chloropropane	ND	H H3	9.8	6.7	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2-Dibromoethane	ND	H H3	0.98	0.20	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2-Dichlorobenzene	ND	H H3	0.98	0.25	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2-Dichloroethane	ND	H H3	0.98	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2-Dichloropropane	ND	H H3	0.98	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,3,5-Trimethylbenzene	ND	H H3	2.0	0.26	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,3-Dichlorobenzene	ND	H H3	0.98	0.25	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,3-Dichloropropane	ND	H H3	0.98	0.29	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,4-Dichlorobenzene	ND	H H3	0.98	0.30	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
2,2-Dichloropropane	ND	H H3	4.9	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
2-Butanone	ND	H H3	20	4.4	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
2-Chlorotoluene	ND	H H3	0.98	0.25	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
2-Hexanone	ND	H H3 *+	20	3.0	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
4-Chlorotoluene	ND	H H3	0.98	0.24	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
4-Methyl-2-pentanone	ND	H H3	20	2.9	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Acetone	ND	H H3 F1	20	9.7	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Benzene	ND	H H3	0.98	0.25	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Bromobenzene	ND	H H3	0.98	0.21	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Bromochloromethane	ND	H H3	2.0	0.44	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Bromodichloromethane	ND	H H3	0.98	0.32	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Bromoform	ND	H H3	4.9	1.3	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Bromomethane	ND	H H3	20	6.5	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
cis-1,2-Dichloroethene	ND	H H3	0.98	0.33	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
cis-1,3-Dichloropropene	ND	H H3	0.98	0.34	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Carbon disulfide	ND	H H3	9.8	0.39	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Carbon tetrachloride	ND	H H3	0.98	0.29	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Chlorobenzene	ND	H H3	0.98	0.26	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Chloroethane	ND	H H3	2.0	0.73	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Chloroform	ND	H H3	0.98	0.58	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Chloromethane	ND	H H3	20	1.5	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Dibromochloromethane	ND	H H3	2.0	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Dibromomethane	ND	H H3	0.98	0.30	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Dichlorodifluoromethane	ND	H H3	2.0	0.45	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Di-isopropyl ether (DIPE)	ND	H H3	0.98	0.49	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Ethanol	ND	H H3	250	65	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Ethylbenzene	ND	H H3	0.98	0.20	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Ethyl-t-butyl ether (ETBE)	ND	H H3	0.98	0.23	ug/Kg		05/17/22 01:41	05/17/22 03:10	1

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

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND	H H3	0.98	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Methylene Chloride	ND	H H3	9.8	3.1	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Methyl-t-Butyl Ether (MTBE)	ND	H H3	2.0	0.18	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Naphthalene	ND	H H3	9.8	5.1	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
n-Butylbenzene	ND	H H3	0.98	0.21	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
N-Propylbenzene	ND	H H3	2.0	0.26	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
o-Xylene	ND	H H3	0.98	0.25	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
m,p-Xylene	ND	H H3	2.0	0.47	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
p-Isopropyltoluene	ND	H H3	0.98	0.28	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
sec-Butylbenzene	ND	H H3	0.98	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Styrene	ND	H H3	0.98	0.31	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
trans-1,2-Dichloroethene	ND	H H3	0.98	0.30	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
trans-1,3-Dichloropropene	ND	H H3	2.0	0.28	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Tert-amyl-methyl ether (TAME)	ND	H H3	0.98	0.19	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
tert-Butyl alcohol (TBA)	ND	H H3	20	6.9	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
tert-Butylbenzene	ND	H H3	0.98	0.25	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Tetrachloroethene	ND	H H3	0.98	0.22	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Toluene	ND	H H3	0.98	0.26	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Trichloroethene	ND	H H3	2.0	0.38	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Trichlorofluoromethane	ND	H H3	9.8	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Vinyl acetate	ND	H H3 F1	9.8	3.9	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Vinyl chloride	ND	H H3	0.98	0.37	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Xylenes, Total	ND	H H3	2.0	0.59	ug/Kg		05/17/22 01:41	05/17/22 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 141*	*05/17/22 01:41*	*05/17/22 03:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 120*	*05/17/22 01:41*	*05/17/22 03:10*	*1*
Dibromofluoromethane (Surr)	*98*		*47 - 142*	*05/17/22 01:41*	*05/17/22 03:10*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*05/17/22 01:41*	*05/17/22 03:10*	*1*

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 8270C SIM - PAHs (GC/MS SIM)

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND	H H3	0.020	0.011	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
2-Methylnaphthalene	ND	H H3	0.020	0.011	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Acenaphthene	ND	H H3	0.020	0.013	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Acenaphthylene	ND	H H3	0.020	0.0097	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Anthracene	ND	H H3	0.020	0.0089	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Benzo[g,h,i]perylene	ND	H H3	0.020	0.011	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Benzo[k]fluoranthene	ND	H H3	0.020	0.0075	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Benzo[a]anthracene	ND	H H3	0.020	0.0080	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Benzo[a]pyrene	ND	H H3	0.020	0.0082	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Benzo[b]fluoranthene	ND	H H3	0.020	0.015	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Chrysene	ND	H H3	0.020	0.0065	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Dibenz(a,h)anthracene	ND	H H3	0.020	0.011	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Fluoranthene	ND	H H3	0.020	0.0080	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Fluorene	ND	H H3	0.020	0.0097	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Indeno[1,2,3-cd]pyrene	ND	H H3	0.020	0.012	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Naphthalene	ND	H H3	0.020	0.0090	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Phenanthrene	ND	H H3	0.020	0.015	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Pyrene	ND	H H3	0.020	0.0087	mg/Kg		05/25/22 08:49	05/26/22 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*55*		*22 - 130*	*05/25/22 08:49*	*05/26/22 20:46*	*1*
Nitrobenzene-d5 (Surr)	*52*		*20 - 145*	*05/25/22 08:49*	*05/26/22 20:46*	*1*
p-Terphenyl-d14 (Surr)	*58*		*33 - 147*	*05/25/22 08:49*	*05/26/22 20:46*	*1*

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

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

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H H3	0.50	0.054	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Acenaphthylene	ND	H H3	0.50	0.096	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Aniline	ND	H H3	0.50	0.12	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Anthracene	ND	H H3	0.50	0.051	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Azobenzene	ND	H H3	0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzidine	ND	H H3 *-	5.0	1.4	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzo[a]anthracene	ND	H H3	0.50	0.046	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzo[a]pyrene	ND	H H3	0.50	0.077	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzo[b]fluoranthene	ND	H H3	0.50	0.080	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzo[g,h,i]perylene	ND	H H3	0.50	0.084	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzoic acid	ND	H H3	2.5	1.6	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzo[k]fluoranthene	ND	H H3	0.50	0.094	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzyl alcohol	ND	H H3	0.50	0.085	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Bis(2-chloroethoxy)methane	ND	H H3	0.50	0.062	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Bis(2-chloroethyl)ether	ND	H H3	2.5	0.10	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
bis (2-Chloroisopropyl) ether	ND	H H3	0.50	0.060	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Bis(2-ethylhexyl) phthalate	ND	H H3	0.50	0.25	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4-Bromophenyl phenyl ether	ND	H H3	0.50	0.059	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Butyl benzyl phthalate	ND	H H3	0.50	0.22	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4-Chloroaniline	ND	H H3	0.50	0.073	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4-Chloro-3-methylphenol	ND	H H3	0.50	0.084	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2-Chloronaphthalene	ND	H H3	0.50	0.057	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2-Chlorophenol	ND	H H3	0.50	0.099	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4-Chlorophenyl phenyl ether	ND	H H3	0.50	0.070	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Chrysene	ND	H H3	0.50	0.068	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Dibenz(a,h)anthracene	ND	H H3	0.50	0.10	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Dibenzofuran	ND	H H3	0.50	0.094	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
1,2-Dichlorobenzene	ND	H H3	0.50	0.074	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
1,3-Dichlorobenzene	ND	H H3	0.50	0.069	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
1,4-Dichlorobenzene	ND	H H3	0.50	0.071	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
3,3'-Dichlorobenzidine	ND	H H3	2.5	0.82	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,4-Dichlorophenol	ND	H H3	0.50	0.10	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,6-Dichlorophenol	ND	H H3	0.50	0.065	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Diethyl phthalate	ND	H H3	0.50	0.061	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,4-Dimethylphenol	ND	H H3	0.50	0.045	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Dimethyl phthalate	ND	H H3	0.50	0.063	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Di-n-butyl phthalate	ND	H H3	0.50	0.073	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4,6-Dinitro-2-methylphenol	ND	H H3	2.5	0.97	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,4-Dinitrophenol	ND	H H3	2.0	1.6	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,4-Dinitrotoluene	ND	H H3	0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,6-Dinitrotoluene	ND	H H3	0.50	0.059	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Di-n-octyl phthalate	ND	H H3	0.50	0.36	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Fluoranthene	ND	H H3	0.50	0.058	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Fluorene	ND	H H3	0.50	0.067	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Hexachlorobenzene	ND	H H3	0.50	0.092	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Hexachloro-1,3-butadiene	ND	H H3	0.50	0.050	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Hexachlorocyclopentadiene	ND	H H3	1.5	0.38	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Hexachloroethane	ND	H H3	0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Indeno[1,2,3-cd]pyrene	ND	H H3	0.50	0.091	mg/Kg		05/12/22 15:08	05/18/22 15:30	1

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

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND	H H3	0.50	0.069	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
1-Methylnaphthalene	ND	H H3	0.50	0.036	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2-Methylnaphthalene	ND	H H3	0.50	0.057	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2-Methylphenol	ND	H H3	0.50	0.094	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
3 & 4 Methylphenol	ND	H H3	1.0	0.22	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Naphthalene	ND	H H3	0.50	0.058	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2-Nitroaniline	ND	H H3	0.50	0.065	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
3-Nitroaniline	ND	H H3	0.50	0.12	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4-Nitroaniline	ND	H H3	0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Nitrobenzene	ND	H H3	2.0	0.092	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2-Nitrophenol	ND	H H3	0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4-Nitrophenol	ND	H H3	0.50	0.17	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
N-Nitrosodimethylamine	ND	H H3	0.50	0.077	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
N-Nitrosodi-n-propylamine	ND	H H3	0.50	0.067	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
N-Nitrosodiphenylamine	ND	H H3	0.50	0.095	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Pentachlorophenol	ND	H H3	2.5	1.0	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Phenanthrene	ND	H H3	0.50	0.061	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Phenol	ND	H H3	0.50	0.095	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Pyrene	ND	H H3	0.50	0.075	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Pyridine	ND	H H3	0.50	0.082	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
1,2,4-Trichlorobenzene	ND	H H3	0.50	0.089	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,4,5-Trichlorophenol	ND	H H3	0.50	0.070	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,4,6-Trichlorophenol	ND	H H3	0.50	0.078	mg/Kg		05/12/22 15:08	05/18/22 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*14 - 142*	*05/12/22 15:08*	*05/18/22 15:30*	*1*
2-Fluorophenol (Surr)	*68*		*10 - 123*	*05/12/22 15:08*	*05/18/22 15:30*	*1*
Nitrobenzene-d5 (Surr)	*72*		*10 - 129*	*05/12/22 15:08*	*05/18/22 15:30*	*1*
Phenol-d6 (Surr)	*70*		*10 - 120*	*05/12/22 15:08*	*05/18/22 15:30*	*1*
p-Terphenyl-d14 (Surr)	*81*		*31 - 139*	*05/12/22 15:08*	*05/18/22 15:30*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 134*	*05/12/22 15:08*	*05/18/22 15:30*	*1*

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

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.7	J H H3	4.8	3.7	mg/Kg		05/12/22 13:37	05/14/22 03:26	1
TPH as Motor Oil (C17-C44)	20	J H H3	24	11	mg/Kg		05/12/22 13:37	05/14/22 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*110*		*60 - 138*	*05/12/22 13:37*	*05/14/22 03:26*	*1*

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H H3	5.0	0.71	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
4,4'-DDE	ND	H H3	5.0	0.68	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
4,4'-DDT	ND	H H3	5.0	1.2	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Aldrin	ND	H H3	5.0	1.6	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
alpha-BHC	ND	H H3	5.0	0.59	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
alpha-Chlordane	ND	H H3	5.0	0.56	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
beta-BHC	ND	H H3	5.0	0.90	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Chlordane	ND	H H3	25	4.1	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
delta-BHC	ND	H H3	5.0	0.93	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Dieldrin	ND	H H3	5.0	0.55	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Endosulfan I	ND	H H3	5.0	1.1	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Endosulfan II	ND	H H3	5.0	0.54	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Endosulfan sulfate	ND	H H3	5.0	0.63	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Endrin	ND	H H3	5.0	0.67	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Endrin aldehyde	ND	H H3	5.0	3.3	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Endrin ketone	ND	H H3	5.0	0.90	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
gamma-BHC	ND	H H3	5.0	0.51	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
gamma-Chlordane	ND	H H3	5.0	3.4	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Heptachlor	ND	H H3	5.0	0.60	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Heptachlor epoxide	ND	H H3	5.0	0.54	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Methoxychlor	ND	H H3	5.0	1.2	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Toxaphene	ND	H H3	25	15	ug/Kg		05/12/22 15:30	05/16/22 08:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*37 - 151*	*05/12/22 15:30*	*05/16/22 08:17*	*1*
Tetrachloro-m-xylene	*75*		*38 - 148*	*05/12/22 15:30*	*05/16/22 08:17*	*1*

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H H3	50	39	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1221	ND	H H3	50	39	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1232	ND	H H3	50	39	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1242	ND	H H3	50	39	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1248	ND	H H3	50	39	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1254	ND	H H3	50	25	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1260	ND	H H3	50	25	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1262	ND	H H3	50	25	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1268	ND	H H3	50	25	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Polychlorinated biphenyls, Total	ND	H H3	50	39	ug/Kg		05/12/22 15:32	05/16/22 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*20 - 155*	*05/12/22 15:32*	*05/16/22 13:23*	*1*
Tetrachloro-m-xylene (Surr)	*61*		*25 - 126*	*05/12/22 15:32*	*05/16/22 13:23*	*1*

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 8151A - Herbicides (GC)

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND	H H3 *+	9.9	3.7	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
2,4,5-TP (Silvex)	ND	H H3 *1	9.9	7.5	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
2,4-D	ND	H H3	99	48	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
2,4-DB	ND	H H3 *+ *1	99	99	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
Dalapon	ND	H H3	250	72	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
Dicamba	ND	H H3	9.9	4.7	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
Dichlorprop	ND	H H3 *1	99	49	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
Dinoseb	ND	H H3 *1	99	58	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
MCPA	ND	H H3 *1	9900	4800	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
MCPP	ND	H H3 *1	9900	6600	ug/Kg		05/17/22 15:21	05/19/22 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*112*		*20 - 163*	*05/17/22 15:21*	*05/19/22 23:30*	*1*

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 6010B - Metals (ICP)

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.85	8.57	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Arsenic	**6.38**		2.96	1.37	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Barium	**117**		2.96	0.140	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Beryllium	**0.567**		0.493	0.0680	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Cadmium	**0.209**	**J**	0.493	0.0818	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Chromium	**16.8**		0.985	0.183	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Cobalt	**7.11**		0.985	0.203	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Copper	**22.6**		1.97	0.944	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Lead	**6.69**		1.97	0.403	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Molybdenum	**0.320**	**J**	1.97	0.186	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Nickel	**17.4**		1.97	0.357	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Selenium	ND		3.08	1.25	mg/Kg		05/12/22 15:27	05/18/22 05:50	5
Silver	ND		1.48	0.142	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Thallium	ND		9.85	6.95	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Vanadium	**35.3**		0.985	0.166	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Zinc	**54.1**		4.93	1.14	mg/Kg		05/21/22 12:45	05/23/22 14:59	5

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 7471A - Mercury (CVAA)

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0535	J H	0.0801	0.0130	mg/Kg		05/12/22 16:44	05/13/22 15:19	1

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

General Chemistry

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	53.1	H	49.8	30.0	mg/Kg		05/13/22 11:53	05/13/22 11:53	1
HEM-SGT: Oil and Grease	29.9	J H	49.8	13.8	mg/Kg		05/13/22 11:53	05/13/22 11:53	1

Surrogate Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-141)	(76-120)	(47-142)	(80-120)
570-95147-1	202205050002	92	97	98	100
570-95147-1 MS	202205050002	92	95	95	96
570-95147-1 MSD	202205050002	94	97	99	96
LCS 570-234601/1-A	Lab Control Sample	87	97	95	94
LCSD 570-234601/2-A	Lab Control Sample Dup	80	96	92	95
MB 570-234601/3-A	Method Blank	85	95	94	100

Surrogate Legend

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

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

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL6	TPHd14	TBP
Lab Sample ID	Client Sample ID	(14-142)	(10-123)	(10-129)	(10-120)	(31-139)	(10-134)
570-95147-1	202205050002	72	68	72	70	81	64
LCS 570-233796/2-A	Lab Control Sample	77	74	67	76	87	79
LCSD 570-233796/3-A	Lab Control Sample Dup	76	75	65	76	84	78
MB 570-233796/1-A	Method Blank	82	82	79	80	92	80

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8270C SIM - PAHs (GC/MS SIM)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(22-130)	(20-145)	(33-147)
570-95147-1	202205050002	55	52	58
LCS 570-236468/2-A	Lab Control Sample	77	78	81
LCSD 570-236468/3-A	Lab Control Sample Dup	75	74	74
MB 570-236468/1-A	Method Blank	73	70	81

Surrogate Legend

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

Surrogate Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1
Lab Sample ID	Client Sample ID	(60-138)
570-95147-1	202205050002	110
LCS 570-233769/2-A	Lab Control Sample	112
LCS 570-233769/6-A	Lab Control Sample	113
LCSD 570-233769/3-A	Lab Control Sample Dup	111
LCSD 570-233769/7-A	Lab Control Sample Dup	109
MB 570-233769/1-A	Method Blank	109

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(37-151)	(38-148)
570-95147-1	202205050002	80	75
LCS 570-233622/2-A	Lab Control Sample	96	96
LCSD 570-233622/3-A	Lab Control Sample Dup	99	98
MB 570-233622/1-A	Method Blank	95	93

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(20-155)	(25-126)
570-95147-1	202205050002	78	61
LCS 570-233724/2-A	Lab Control Sample	88	74
LCSD 570-233724/3-A	Lab Control Sample Dup	104	86
MB 570-233724/1-A	Method Blank	100	83

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(20-163)
570-95147-1	202205050002	112
LCS 570-234174/2-A	Lab Control Sample	37
LCSD 570-234174/3-A	Lab Control Sample Dup	72
MB 570-234174/1-A	Method Blank	46

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-234601/3-A
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.29	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.54	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1,2-Trichloroethane	ND		1.0	0.46	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1-Dichloroethane	ND		1.0	0.28	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1-Dichloroethene	ND		1.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1-Dichloropropene	ND		2.0	0.39	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2,3-Trichloropropane	ND		2.0	0.42	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2,4-Trichlorobenzene	ND		2.0	0.41	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2,4-Trimethylbenzene	ND		2.0	0.60	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2-Dibromo-3-Chloropropane	ND		10	6.8	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2-Dibromoethane	ND		1.0	0.21	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2-Dichloroethane	ND		1.0	0.28	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2-Dichloropropane	ND		1.0	0.28	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,3,5-Trimethylbenzene	ND		2.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,3-Dichloropropane	ND		1.0	0.30	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,4-Dichlorobenzene	ND		1.0	0.31	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
2,2-Dichloropropane	ND		5.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
2-Butanone	ND		20	4.5	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
2-Chlorotoluene	ND		1.0	0.25	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
2-Hexanone	ND		20	3.1	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
4-Chlorotoluene	ND		1.0	0.24	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
4-Methyl-2-pentanone	ND		20	2.9	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Acetone	ND		20	9.8	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Benzene	ND		1.0	0.26	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Bromobenzene	ND		1.0	0.21	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Bromochloromethane	ND		2.0	0.44	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Bromodichloromethane	ND		1.0	0.33	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Bromoform	ND		5.0	1.3	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Bromomethane	ND		20	6.6	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
cis-1,2-Dichloroethene	ND		1.0	0.34	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
cis-1,3-Dichloropropene	ND		1.0	0.35	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Carbon disulfide	ND		10	0.40	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Chlorobenzene	ND		1.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Chloroethane	ND		2.0	0.74	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Chloroform	ND		1.0	0.59	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Chloromethane	ND		20	1.5	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Dibromochloromethane	ND		2.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Dibromomethane	ND		1.0	0.31	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Dichlorodifluoromethane	ND		2.0	0.45	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Di-isopropyl ether (DIPE)	ND		1.0	0.50	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Ethanol	ND		250	66	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Ethylbenzene	ND		1.0	0.21	ug/Kg		05/16/22 22:40	05/17/22 02:44	1

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

Lab Sample ID: MB 570-234601/3-A
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		1.0	0.24	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Isopropylbenzene	ND		1.0	0.28	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Methylene Chloride	ND		10	3.1	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0	0.19	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Naphthalene	ND		10	5.2	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
n-Butylbenzene	ND		1.0	0.21	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
N-Propylbenzene	ND		2.0	0.26	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
o-Xylene	ND		1.0	0.26	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
m,p-Xylene	ND		2.0	0.47	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
p-Isopropyltoluene	ND		1.0	0.28	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
sec-Butylbenzene	ND		1.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Styrene	ND		1.0	0.32	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
trans-1,3-Dichloropropene	ND		2.0	0.28	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Tert-amyl-methyl ether (TAME)	ND		1.0	0.19	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
tert-Butyl alcohol (TBA)	ND		20	7.0	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
tert-Butylbenzene	ND		1.0	0.25	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Tetrachloroethene	ND		1.0	0.22	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Toluene	ND		1.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Trichloroethene	ND		2.0	0.39	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Trichlorofluoromethane	ND		10	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Vinyl acetate	ND		10	3.9	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Vinyl chloride	ND		1.0	0.38	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Xylenes, Total	ND		2.0	0.60	ug/Kg		05/16/22 22:40	05/17/22 02:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*64 - 141*	*05/16/22 22:40*	*05/17/22 02:44*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 120*	*05/16/22 22:40*	*05/17/22 02:44*	*1*
Dibromofluoromethane (Surr)	*94*		*47 - 142*	*05/16/22 22:40*	*05/17/22 02:44*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*05/16/22 22:40*	*05/17/22 02:44*	*1*

Lab Sample ID: LCS 570-234601/1-A
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	49.7	48.79		ug/Kg		98	70 - 131
1,2-Dibromoethane	49.7	57.58		ug/Kg		116	80 - 120
1,2-Dichlorobenzene	49.7	55.34		ug/Kg		111	80 - 120
1,2-Dichloroethane	49.7	49.60		ug/Kg		100	80 - 120
Benzene	49.7	53.09		ug/Kg		107	80 - 120
Carbon tetrachloride	49.7	52.15		ug/Kg		105	80 - 131
Chlorobenzene	49.7	53.25		ug/Kg		107	80 - 120
Di-isopropyl ether (DIPE)	49.7	54.63		ug/Kg		110	77 - 130
Ethanol	497	447.3		ug/Kg		90	66 - 129
Ethylbenzene	49.7	52.01		ug/Kg		105	80 - 120
Ethyl-t-butyl ether (ETBE)	49.7	54.27		ug/Kg		109	80 - 135
Methyl-t-Butyl Ether (MTBE)	49.7	54.07		ug/Kg		109	80 - 122

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

Lab Sample ID: LCS 570-234601/1-A
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	49.7	52.41		ug/Kg		105	80 - 120
m,p-Xylene	99.4	101.9		ug/Kg		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*64 - 141*
4-Bromofluorobenzene (Surr)	*97*		*76 - 120*
Dibromofluoromethane (Surr)	*95*		*47 - 142*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: LCSD 570-234601/2-A
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 234601

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	50.1	47.64		ug/Kg		95	70 - 131	2	20
1,2-Dibromoethane	50.1	56.37		ug/Kg		113	80 - 120	2	20
1,2-Dichlorobenzene	50.1	54.42		ug/Kg		109	80 - 120	2	20
1,2-Dichloroethane	50.1	46.13		ug/Kg		92	80 - 120	7	20
Benzene	50.1	54.69		ug/Kg		109	80 - 120	3	20
Carbon tetrachloride	50.1	50.32		ug/Kg		100	80 - 131	4	20
Chlorobenzene	50.1	53.62		ug/Kg		107	80 - 120	1	20
Di-isopropyl ether (DIPE)	50.1	52.69		ug/Kg		105	77 - 130	4	20
Ethanol	501	450.1		ug/Kg		90	66 - 129	1	22
Ethylbenzene	50.1	53.16		ug/Kg		106	80 - 120	2	20
Ethyl-t-butyl ether (ETBE)	50.1	52.43		ug/Kg		105	80 - 135	3	20
Methyl-t-Butyl Ether (MTBE)	50.1	50.05		ug/Kg		100	80 - 122	8	20
o-Xylene	50.1	54.89		ug/Kg		110	80 - 120	5	20
m,p-Xylene	100	107.8		ug/Kg		108	80 - 120	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*64 - 141*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*
Dibromofluoromethane (Surr)	*92*		*47 - 142*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 570-95147-1 MS
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: 202205050002
Prep Type: Total/NA
Prep Batch: 234601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	ND	H H3	49.6	43.02		ug/Kg		87	60 - 125
1,2-Dibromoethane	ND	H H3	49.6	44.17		ug/Kg		89	65 - 125
1,2-Dichlorobenzene	ND	H H3	49.6	34.07		ug/Kg		69	47 - 130
1,2-Dichloroethane	ND	H H3	49.6	40.90		ug/Kg		82	66 - 127
Benzene	ND	H H3	49.6	45.01		ug/Kg		91	70 - 125
Carbon tetrachloride	ND	H H3	49.6	45.35		ug/Kg		91	60 - 130
Chlorobenzene	ND	H H3	49.6	40.50		ug/Kg		82	65 - 125
Di-isopropyl ether (DIPE)	ND	H H3	49.6	47.33		ug/Kg		95	62 - 125

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

Lab Sample ID: 570-95147-1 MS
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: 202205050002
Prep Type: Total/NA
Prep Batch: 234601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethanol	ND	H H3	496	300.9		ug/Kg		61	21 - 168
Ethylbenzene	ND	H H3	49.6	40.95		ug/Kg		83	64 - 125
Ethyl-t-butyl ether (ETBE)	ND	H H3	49.6	46.57		ug/Kg		94	61 - 125
Methyl-t-Butyl Ether (MTBE)	ND	H H3	49.6	45.57		ug/Kg		92	61 - 125
o-Xylene	ND	H H3	49.6	40.87		ug/Kg		82	59 - 128
m,p-Xylene	ND	H H3	99.2	81.63		ug/Kg		82	60 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 141*
4-Bromofluorobenzene (Surr)	*95*		*76 - 120*
Dibromofluoromethane (Surr)	*95*		*47 - 142*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 570-95147-1 MSD
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: 202205050002
Prep Type: Total/NA
Prep Batch: 234601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND	H H3	50.5	40.71		ug/Kg		81	60 - 125	6	20
1,2-Dibromoethane	ND	H H3	50.5	42.17		ug/Kg		83	65 - 125	5	21
1,2-Dichlorobenzene	ND	H H3	50.5	33.77		ug/Kg		67	47 - 130	1	29
1,2-Dichloroethane	ND	H H3	50.5	40.92		ug/Kg		81	66 - 127	0	20
Benzene	ND	H H3	50.5	42.82		ug/Kg		85	70 - 125	5	20
Carbon tetrachloride	ND	H H3	50.5	46.28		ug/Kg		92	60 - 130	2	20
Chlorobenzene	ND	H H3	50.5	38.22		ug/Kg		76	65 - 125	6	22
Di-isopropyl ether (DIPE)	ND	H H3	50.5	46.58		ug/Kg		92	62 - 125	2	20
Ethanol	ND	H H3	505	326.9		ug/Kg		65	21 - 168	8	40
Ethylbenzene	ND	H H3	50.5	37.97		ug/Kg		75	64 - 125	8	22
Ethyl-t-butyl ether (ETBE)	ND	H H3	50.5	45.84		ug/Kg		91	61 - 125	2	20
Methyl-t-Butyl Ether (MTBE)	ND	H H3	50.5	45.44		ug/Kg		90	61 - 125	0	20
o-Xylene	ND	H H3	50.5	38.52		ug/Kg		76	59 - 128	6	24
m,p-Xylene	ND	H H3	101	76.65		ug/Kg		76	60 - 125	6	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*64 - 141*
4-Bromofluorobenzene (Surr)	*97*		*76 - 120*
Dibromofluoromethane (Surr)	*99*		*47 - 142*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: MB 570-233796/1-A
Matrix: Solid
Analysis Batch: 235117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.054	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Acenaphthylene	ND		0.50	0.096	mg/Kg		05/12/22 15:08	05/18/22 13:54	1

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

Lab Sample ID: MB 570-233796/1-A
Matrix: Solid
Analysis Batch: 235117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		0.50	0.12	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Anthracene	ND		0.50	0.051	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Azobenzene	ND		0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzidine	ND		5.0	1.4	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzo[a]anthracene	ND		0.50	0.046	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzo[a]pyrene	ND		0.50	0.076	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzo[b]fluoranthene	ND		0.50	0.080	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzo[g,h,i]perylene	ND		0.50	0.083	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzoic acid	ND		2.5	1.6	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzo[k]fluoranthene	ND		0.50	0.094	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzyl alcohol	ND		0.50	0.085	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Bis(2-chloroethoxy)methane	ND		0.50	0.062	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Bis(2-chloroethyl)ether	ND		2.5	0.10	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
bis (2-Chloroisopropyl) ether	ND		0.50	0.060	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Bis(2-ethylhexyl) phthalate	ND		0.50	0.25	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4-Bromophenyl phenyl ether	ND		0.50	0.059	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Butyl benzyl phthalate	ND		0.50	0.22	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4-Chloroaniline	ND		0.50	0.072	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4-Chloro-3-methylphenol	ND		0.50	0.084	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2-Chloronaphthalene	ND		0.50	0.057	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2-Chlorophenol	ND		0.50	0.099	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4-Chlorophenyl phenyl ether	ND		0.50	0.070	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Chrysene	ND		0.50	0.068	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Dibenz(a,h)anthracene	ND		0.50	0.10	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Dibenzofuran	ND		0.50	0.094	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
1,2-Dichlorobenzene	ND		0.50	0.074	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
1,3-Dichlorobenzene	ND		0.50	0.069	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
1,4-Dichlorobenzene	ND		0.50	0.071	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
3,3'-Dichlorobenzidine	ND		2.5	0.81	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,4-Dichlorophenol	ND		0.50	0.10	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,6-Dichlorophenol	ND		0.50	0.065	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Diethyl phthalate	ND		0.50	0.061	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,4-Dimethylphenol	ND		0.50	0.045	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Dimethyl phthalate	ND		0.50	0.063	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Di-n-butyl phthalate	ND		0.50	0.073	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4,6-Dinitro-2-methylphenol	ND		2.5	0.97	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,4-Dinitrophenol	ND		2.0	1.6	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,4-Dinitrotoluene	ND		0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,6-Dinitrotoluene	ND		0.50	0.059	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Di-n-octyl phthalate	ND		0.50	0.36	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Fluoranthene	ND		0.50	0.058	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Fluorene	ND		0.50	0.067	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Hexachlorobenzene	ND		0.50	0.092	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Hexachloro-1,3-butadiene	ND		0.50	0.050	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Hexachlorocyclopentadiene	ND		1.5	0.38	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Hexachloroethane	ND		0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.090	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Isophorone	ND		0.50	0.068	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
1-Methylnaphthalene	ND		0.50	0.036	mg/Kg		05/12/22 15:08	05/18/22 13:54	1

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

Lab Sample ID: MB 570-233796/1-A
Matrix: Solid
Analysis Batch: 235117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.50	0.057	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2-Methylphenol	ND		0.50	0.094	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
3 & 4 Methylphenol	ND		1.0	0.22	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Naphthalene	ND		0.50	0.058	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2-Nitroaniline	ND		0.50	0.065	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
3-Nitroaniline	ND		0.50	0.12	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4-Nitroaniline	ND		0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Nitrobenzene	ND		2.0	0.092	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2-Nitrophenol	ND		0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4-Nitrophenol	ND		0.50	0.17	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
N-Nitrosodimethylamine	ND		0.50	0.077	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
N-Nitrosodi-n-propylamine	ND		0.50	0.067	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
N-Nitrosodiphenylamine	ND		0.50	0.095	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Pentachlorophenol	ND		2.5	1.0	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Phenanthrene	ND		0.50	0.061	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Phenol	ND		0.50	0.095	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Pyrene	ND		0.50	0.075	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Pyridine	ND		0.50	0.082	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,4,5-Trichlorophenol	ND		0.50	0.070	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,4,6-Trichlorophenol	ND		0.50	0.078	mg/Kg		05/12/22 15:08	05/18/22 13:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*14 - 142*	*05/12/22 15:08*	*05/18/22 13:54*	*1*
2-Fluorophenol (Surr)	*82*		*10 - 123*	*05/12/22 15:08*	*05/18/22 13:54*	*1*
Nitrobenzene-d5 (Surr)	*79*		*10 - 129*	*05/12/22 15:08*	*05/18/22 13:54*	*1*
Phenol-d6 (Surr)	*80*		*10 - 120*	*05/12/22 15:08*	*05/18/22 13:54*	*1*
p-Terphenyl-d14 (Surr)	*92*		*31 - 139*	*05/12/22 15:08*	*05/18/22 13:54*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*10 - 134*	*05/12/22 15:08*	*05/18/22 13:54*	*1*

Lab Sample ID: LCS 570-233796/2-A
Matrix: Solid
Analysis Batch: 235117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	5.00	4.544		mg/Kg		91	71 - 120
Acenaphthylene	5.00	4.977		mg/Kg		100	77 - 125
Butyl benzyl phthalate	5.00	4.614		mg/Kg		92	58 - 120
4-Chloro-3-methylphenol	5.00	3.883		mg/Kg		78	54 - 120
2-Chlorophenol	5.00	4.173		mg/Kg		83	65 - 121
1,4-Dichlorobenzene	5.00	3.870		mg/Kg		77	64 - 120
Dimethyl phthalate	5.00	4.453		mg/Kg		89	58 - 120
2,4-Dinitrotoluene	5.00	4.586		mg/Kg		92	64 - 120
Fluorene	5.00	4.805		mg/Kg		96	72 - 120
Naphthalene	5.00	3.849		mg/Kg		77	60 - 120
4-Nitrophenol	5.00	4.341		mg/Kg		87	52 - 121
N-Nitrosodi-n-propylamine	5.00	4.298		mg/Kg		86	61 - 123
Pentachlorophenol	5.00	2.885		mg/Kg		58	27 - 120

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

Lab Sample ID: LCS 570-233796/2-A
Matrix: Solid
Analysis Batch: 235117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233796

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenol			5.00	4.116		mg/Kg		82	61 - 127		
Pyrene			5.00	4.751		mg/Kg		95	70 - 124		
1,2,4-Trichlorobenzene			5.00	3.614		mg/Kg		72	59 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*14 - 142*
2-Fluorophenol (Surr)	*74*		*10 - 123*
Nitrobenzene-d5 (Surr)	*67*		*10 - 129*
Phenol-d6 (Surr)	*76*		*10 - 120*
p-Terphenyl-d14 (Surr)	*87*		*31 - 139*
2,4,6-Tribromophenol (Surr)	*79*		*10 - 134*

Lab Sample ID: LCSD 570-233796/3-A
Matrix: Solid
Analysis Batch: 235117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233796

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			5.00	4.583		mg/Kg		92	71 - 120	1	20
Acenaphthylene			5.00	4.974		mg/Kg		99	77 - 125	0	20
Butyl benzyl phthalate			5.00	4.469		mg/Kg		89	58 - 120	3	20
4-Chloro-3-methylphenol			5.00	3.768		mg/Kg		75	54 - 120	3	20
2-Chlorophenol			5.00	4.151		mg/Kg		83	65 - 121	1	20
1,4-Dichlorobenzene			5.00	3.844		mg/Kg		77	64 - 120	1	20
Dimethyl phthalate			5.00	4.392		mg/Kg		88	58 - 120	1	20
2,4-Dinitrotoluene			5.00	4.567		mg/Kg		91	64 - 120	0	20
Fluorene			5.00	4.770		mg/Kg		95	72 - 120	1	20
Naphthalene			5.00	3.732		mg/Kg		75	60 - 120	3	20
4-Nitrophenol			5.00	4.389		mg/Kg		88	52 - 121	1	20
N-Nitrosodi-n-propylamine			5.00	4.376		mg/Kg		88	61 - 123	2	20
Pentachlorophenol			5.00	2.919		mg/Kg		58	27 - 120	1	20
Phenol			5.00	4.210		mg/Kg		84	61 - 127	2	20
Pyrene			5.00	4.552		mg/Kg		91	70 - 124	4	20
1,2,4-Trichlorobenzene			5.00	3.545		mg/Kg		71	59 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*14 - 142*
2-Fluorophenol (Surr)	*75*		*10 - 123*
Nitrobenzene-d5 (Surr)	*65*		*10 - 129*
Phenol-d6 (Surr)	*76*		*10 - 120*
p-Terphenyl-d14 (Surr)	*84*		*31 - 139*
2,4,6-Tribromophenol (Surr)	*78*		*10 - 134*

Method: 8270C SIM - PAHs (GC/MS SIM)

Lab Sample ID: MB 570-236468/1-A
Matrix: Solid
Analysis Batch: 237436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 236468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.020	0.011	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
2-Methylnaphthalene	ND		0.020	0.010	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Acenaphthene	ND		0.020	0.013	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Acenaphthylene	ND		0.020	0.0096	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Anthracene	ND		0.020	0.0089	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Benzo[g,h,i]perylene	ND		0.020	0.011	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Benzo[k]fluoranthene	ND		0.020	0.0075	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Benzo[a]anthracene	ND		0.020	0.0080	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Benzo[a]pyrene	ND		0.020	0.0082	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Benzo[b]fluoranthene	ND		0.020	0.015	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Chrysene	ND		0.020	0.0065	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Dibenz(a,h)anthracene	ND		0.020	0.011	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Fluoranthene	ND		0.020	0.0080	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Fluorene	ND		0.020	0.0097	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Indeno[1,2,3-cd]pyrene	ND		0.020	0.012	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Naphthalene	ND		0.020	0.0089	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Phenanthrene	ND		0.020	0.015	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Pyrene	ND		0.020	0.0087	mg/Kg		05/24/22 09:06	05/27/22 10:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*22 - 130*	*05/24/22 09:06*	*05/27/22 10:14*	*1*
Nitrobenzene-d5 (Surr)	*70*		*20 - 145*	*05/24/22 09:06*	*05/27/22 10:14*	*1*
p-Terphenyl-d14 (Surr)	*81*		*33 - 147*	*05/24/22 09:06*	*05/27/22 10:14*	*1*

Lab Sample ID: LCS 570-236468/2-A
Matrix: Solid
Analysis Batch: 237436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 236468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.200	0.1868		mg/Kg		93	54 - 132
2-Methylnaphthalene	0.200	0.1770		mg/Kg		89	50 - 127
Acenaphthene	0.200	0.1665		mg/Kg		83	53 - 125
Acenaphthylene	0.200	0.1955		mg/Kg		98	50 - 123
Anthracene	0.200	0.1791		mg/Kg		90	50 - 132
Benzo[g,h,i]perylene	0.200	0.1680		mg/Kg		84	50 - 130
Benzo[k]fluoranthene	0.200	0.1698		mg/Kg		85	49 - 150
Benzo[a]anthracene	0.200	0.1894		mg/Kg		95	50 - 133
Benzo[a]pyrene	0.200	0.1622		mg/Kg		81	50 - 134
Benzo[b]fluoranthene	0.200	0.1697		mg/Kg		85	50 - 142
Chrysene	0.200	0.1784		mg/Kg		89	51 - 129
Dibenz(a,h)anthracene	0.200	0.1682		mg/Kg		84	50 - 133
Fluoranthene	0.200	0.1761		mg/Kg		88	55 - 127
Fluorene	0.200	0.1760		mg/Kg		88	55 - 127
Indeno[1,2,3-cd]pyrene	0.200	0.1603		mg/Kg		80	50 - 148
Naphthalene	0.200	0.1723		mg/Kg		86	51 - 129
Phenanthrene	0.200	0.1702		mg/Kg		85	50 - 122
Pyrene	0.200	0.1897		mg/Kg		95	50 - 134

Method: 8270C SIM - PAHs (GC/MS SIM) (Continued)

Lab Sample ID: LCS 570-236468/2-A
Matrix: Solid
Analysis Batch: 237436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 236468

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	77		22 - 130
Nitrobenzene-d5 (Surr)	78		20 - 145
p-Terphenyl-d14 (Surr)	81		33 - 147

Lab Sample ID: LCSD 570-236468/3-A
Matrix: Solid
Analysis Batch: 237436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 236468

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			0.200	0.1824		mg/Kg		91	54 - 132	2	20
2-Methylnaphthalene			0.200	0.1751		mg/Kg		88	50 - 127	1	20
Acenaphthene			0.200	0.1694		mg/Kg		85	53 - 125	2	20
Acenaphthylene			0.200	0.1936		mg/Kg		97	50 - 123	1	20
Anthracene			0.200	0.1820		mg/Kg		91	50 - 132	2	20
Benzo[g,h,i]perylene			0.200	0.1938		mg/Kg		97	50 - 130	14	20
Benzo[k]fluoranthene			0.200	0.1856		mg/Kg		93	49 - 150	9	20
Benzo[a]anthracene			0.200	0.1845		mg/Kg		92	50 - 133	3	20
Benzo[a]pyrene			0.200	0.1823		mg/Kg		91	50 - 134	12	20
Benzo[b]fluoranthene			0.200	0.1821		mg/Kg		91	50 - 142	7	20
Chrysene			0.200	0.1809		mg/Kg		90	51 - 129	1	20
Dibenz(a,h)anthracene			0.200	0.1853		mg/Kg		93	50 - 133	10	20
Fluoranthene			0.200	0.1616		mg/Kg		81	55 - 127	9	20
Fluorene			0.200	0.1723		mg/Kg		86	55 - 127	2	20
Indeno[1,2,3-cd]pyrene			0.200	0.1769		mg/Kg		88	50 - 148	10	20
Naphthalene			0.200	0.1814		mg/Kg		91	51 - 129	5	20
Phenanthrene			0.200	0.1750		mg/Kg		87	50 - 122	3	20
Pyrene			0.200	0.1848		mg/Kg		92	50 - 134	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	75		22 - 130
Nitrobenzene-d5 (Surr)	74		20 - 145
p-Terphenyl-d14 (Surr)	74		33 - 147

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

Lab Sample ID: MB 570-233769/1-A
Matrix: Solid
Analysis Batch: 234059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.0	3.8	mg/Kg		05/12/22 13:37	05/13/22 15:12	1
TPH as Motor Oil (C17-C44)	ND		25	11	mg/Kg		05/12/22 13:37	05/13/22 15:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		60 - 138	05/12/22 13:37	05/13/22 15:12	1

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

Lab Sample ID: LCS 570-233769/2-A
Matrix: Solid
Analysis Batch: 234059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233769

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	457.0		mg/Kg		114	80 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*112*		*60 - 138*

Lab Sample ID: LCS 570-233769/6-A
Matrix: Solid
Analysis Batch: 234059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233769

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Motor Oil (C17-C44)			400	395.6		mg/Kg		99	77 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*113*		*60 - 138*

Lab Sample ID: LCSD 570-233769/3-A
Matrix: Solid
Analysis Batch: 234059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233769

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	461.9		mg/Kg		115	80 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*111*		*60 - 138*

Lab Sample ID: LCSD 570-233769/7-A
Matrix: Solid
Analysis Batch: 234059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233769

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)			400	390.2		mg/Kg		98	77 - 125	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*109*		*60 - 138*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 570-233622/1-A
Matrix: Solid
Analysis Batch: 233627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.72	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
4,4'-DDE	ND		5.0	0.69	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Aldrin	ND		5.0	1.6	ug/Kg		05/12/22 08:39	05/13/22 09:25	1

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

Lab Sample ID: MB 570-233622/1-A
Matrix: Solid
Analysis Batch: 233627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		5.0	0.59	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
beta-BHC	ND		5.0	0.90	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Chlordane	ND		25	4.1	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
delta-BHC	ND		5.0	0.93	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Dieldrin	ND		5.0	0.55	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Endosulfan I	ND		5.0	1.1	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Endosulfan II	ND		5.0	0.55	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Endrin	ND		5.0	0.67	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Endrin ketone	ND		5.0	0.90	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
gamma-BHC	ND		5.0	0.51	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
gamma-Chlordane	ND		5.0	3.4	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Heptachlor	ND		5.0	0.60	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Methoxychlor	ND		5.0	1.2	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Toxaphene	ND		25	15	ug/Kg		05/12/22 08:39	05/13/22 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 151*	*05/12/22 08:39*	*05/13/22 09:25*	*1*
Tetrachloro-m-xylene	*93*		*38 - 148*	*05/12/22 08:39*	*05/13/22 09:25*	*1*

Lab Sample ID: LCS 570-233622/2-A
Matrix: Solid
Analysis Batch: 233627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	25.0	22.63		ug/Kg		91	54 - 154
4,4'-DDE	25.0	22.55		ug/Kg		90	51 - 149
4,4'-DDT	25.0	21.05		ug/Kg		84	39 - 152
Aldrin	25.0	19.97		ug/Kg		80	52 - 138
alpha-BHC	25.0	22.26		ug/Kg		89	51 - 140
alpha-Chlordane	25.0	20.53		ug/Kg		82	53 - 141
beta-BHC	25.0	21.70		ug/Kg		87	53 - 141
delta-BHC	25.0	23.28		ug/Kg		93	20 - 132
Dieldrin	25.0	20.84		ug/Kg		83	52 - 144
Endosulfan I	25.0	19.97		ug/Kg		80	49 - 139
Endosulfan II	25.0	20.92		ug/Kg		84	51 - 150
Endosulfan sulfate	25.0	20.97		ug/Kg		84	45 - 139
Endrin	25.0	16.78		ug/Kg		67	53 - 151
Endrin aldehyde	25.0	21.21		ug/Kg		85	31 - 146
gamma-BHC	25.0	21.83		ug/Kg		87	53 - 141
gamma-Chlordane	25.0	20.81		ug/Kg		83	46 - 156
Heptachlor	25.0	20.58		ug/Kg		82	52 - 144
Heptachlor epoxide	25.0	21.13		ug/Kg		85	54 - 141
Methoxychlor	25.0	12.55	p	ug/Kg		50	47 - 148

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

Lab Sample ID: LCS 570-233622/2-A
Matrix: Solid
Analysis Batch: 233627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233622

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	96		37 - 151
Tetrachloro-m-xylene	96		38 - 148

Lab Sample ID: LCSD 570-233622/3-A
Matrix: Solid
Analysis Batch: 233627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233622

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			25.0	23.09		ug/Kg		92	54 - 154	2	30
4,4'-DDE			25.0	22.92		ug/Kg		92	51 - 149	2	28
4,4'-DDT			25.0	21.91		ug/Kg		88	39 - 152	4	31
Aldrin			25.0	20.70		ug/Kg		83	52 - 138	4	30
alpha-BHC			25.0	22.69		ug/Kg		91	51 - 140	2	29
alpha-Chlordane			25.0	21.13		ug/Kg		85	53 - 141	3	28
beta-BHC			25.0	22.13		ug/Kg		89	53 - 141	2	29
delta-BHC			25.0	23.79		ug/Kg		95	20 - 132	2	40
Dieldrin			25.0	21.62		ug/Kg		86	52 - 144	4	28
Endosulfan I			25.0	20.74		ug/Kg		83	49 - 139	4	28
Endosulfan II			25.0	21.51		ug/Kg		86	51 - 150	3	29
Endosulfan sulfate			25.0	21.48		ug/Kg		86	45 - 139	2	30
Endrin			25.0	19.33		ug/Kg		77	53 - 151	14	29
Endrin aldehyde			25.0	20.88		ug/Kg		84	31 - 146	2	40
gamma-BHC			25.0	22.24		ug/Kg		89	53 - 141	2	29
gamma-Chlordane			25.0	21.41		ug/Kg		86	46 - 156	3	39
Heptachlor			25.0	21.11		ug/Kg		84	52 - 144	3	29
Heptachlor epoxide			25.0	21.74		ug/Kg		87	54 - 141	3	29
Methoxychlor			25.0	12.91	p	ug/Kg		52	47 - 148	3	29

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	99		37 - 151
Tetrachloro-m-xylene	98		38 - 148

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-233724/1-A
Matrix: Solid
Analysis Batch: 233928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	39	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1221	ND		50	39	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1232	ND		50	39	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1242	ND		50	39	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1248	ND		50	39	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1254	ND		50	25	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1260	ND		50	25	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1262	ND		50	25	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1268	ND		50	25	ug/Kg		05/12/22 11:53	05/13/22 21:52	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 570-233724/1-A
Matrix: Solid
Analysis Batch: 233928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	ND		50	39	ug/Kg		05/12/22 11:53	05/13/22 21:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*20 - 155*	*05/12/22 11:53*	*05/13/22 21:52*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*25 - 126*	*05/12/22 11:53*	*05/13/22 21:52*	*1*

Lab Sample ID: LCS 570-233724/2-A
Matrix: Solid
Analysis Batch: 233928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233724

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			100	87.73		ug/Kg		88	50 - 142		
Aroclor-1260			100	92.70		ug/Kg		93	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*88*		*20 - 155*
Tetrachloro-m-xylene (Surr)	*74*		*25 - 126*

Lab Sample ID: LCSD 570-233724/3-A
Matrix: Solid
Analysis Batch: 233928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233724

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	98.24		ug/Kg		98	50 - 142	11	30
Aroclor-1260			100	102.7		ug/Kg		103	50 - 150	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*104*		*20 - 155*
Tetrachloro-m-xylene (Surr)	*86*		*25 - 126*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 570-234174/1-A
Matrix: Solid
Analysis Batch: 235864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	3.7	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
2,4,5-TP (Silvex)	ND		10	7.5	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
2,4-D	ND		100	49	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
2,4-DB	ND		100	100	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
Dalapon	ND		250	72	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
Dicamba	ND		10	4.7	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
Dichlorprop	ND		100	49	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
Dinoseb	ND		100	59	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
MCPA	ND		10000	4900	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
MCPP	ND		10000	6600	ug/Kg		05/17/22 15:21	05/20/22 16:41	1

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

Lab Sample ID: MB 570-234174/1-A
Matrix: Solid
Analysis Batch: 235864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234174

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	46		20 - 163	05/17/22 15:21	05/20/22 16:41	1

Lab Sample ID: LCS 570-234174/2-A
Matrix: Solid
Analysis Batch: 235557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	40.0	55.28	*+	ug/Kg		138	36 - 125
2,4-D	400	215.7	p	ug/Kg		54	10 - 177
2,4-DB	400	925.9	*+	ug/Kg		231	35 - 180

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	37		20 - 163

Lab Sample ID: LCSD 570-234174/3-A
Matrix: Solid
Analysis Batch: 235557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 234174

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	40.0	56.31	*+	ug/Kg		141	36 - 125	2	35
2,4-D	400	319.1		ug/Kg		80	10 - 177	39	40
2,4-DB	400	579.2	*1	ug/Kg		145	35 - 180	46	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	72		20 - 163

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-233806/1-A
Matrix: Solid
Analysis Batch: 235048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		2.99	1.22	mg/Kg		05/12/22 15:27	05/18/22 04:45	5

Lab Sample ID: LCS 570-233806/2-A ^5
Matrix: Solid
Analysis Batch: 235048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	49.8	43.58		mg/Kg		88	80 - 120

Lab Sample ID: LCSD 570-233806/3-A ^5
Matrix: Solid
Analysis Batch: 235048

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233806

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	50.5	42.69		mg/Kg		85	80 - 120	2	20

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

Lab Sample ID: MB 570-236024/1-A ^5
Matrix: Solid
Analysis Batch: 236320

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 236024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10.1	8.74	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Arsenic	ND		3.02	1.40	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Barium	ND		3.02	0.143	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Beryllium	ND		0.503	0.0693	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Cadmium	ND		0.503	0.0834	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Chromium	ND		1.01	0.187	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Cobalt	ND		1.01	0.207	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Copper	ND		2.01	0.963	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Lead	ND		2.01	0.411	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Molybdenum	ND		2.01	0.190	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Nickel	ND		2.01	0.364	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Silver	ND		1.51	0.145	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Thallium	ND		10.1	7.09	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Vanadium	ND		1.01	0.169	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Zinc	ND		5.03	1.16	mg/Kg		05/21/22 12:45	05/23/22 13:44	5

Lab Sample ID: LCS 570-236024/2-A ^5
Matrix: Solid
Analysis Batch: 236320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 236024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	49.0	57.29		mg/Kg		117	80 - 120
Arsenic	49.0	45.80		mg/Kg		93	80 - 120
Barium	49.0	49.34		mg/Kg		101	80 - 120
Beryllium	49.0	48.33		mg/Kg		99	80 - 120
Cadmium	49.0	46.29		mg/Kg		94	80 - 120
Chromium	49.0	49.83		mg/Kg		102	80 - 120
Cobalt	49.0	47.99		mg/Kg		98	80 - 120
Copper	49.0	49.25		mg/Kg		100	80 - 120
Lead	49.0	47.86		mg/Kg		98	80 - 120
Molybdenum	49.0	51.61		mg/Kg		105	80 - 120
Nickel	49.0	48.25		mg/Kg		98	80 - 120
Silver	24.5	24.68		mg/Kg		101	80 - 120
Thallium	49.0	47.67		mg/Kg		97	80 - 120
Vanadium	49.0	49.07		mg/Kg		100	80 - 120
Zinc	49.0	45.38		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 570-236024/3-A ^5
Matrix: Solid
Analysis Batch: 236320

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 236024

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	49.3	56.21		mg/Kg		114	80 - 120	2	20
Arsenic	49.3	46.55		mg/Kg		94	80 - 120	2	20
Barium	49.3	49.57		mg/Kg		101	80 - 120	0	20
Beryllium	49.3	48.63		mg/Kg		99	80 - 120	1	20
Cadmium	49.3	46.44		mg/Kg		94	80 - 120	0	20
Chromium	49.3	50.11		mg/Kg		102	80 - 120	1	20
Cobalt	49.3	48.24		mg/Kg		98	80 - 120	1	20

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

Lab Sample ID: LCSD 570-236024/3-A ^5
Matrix: Solid
Analysis Batch: 236320

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 236024

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	49.3	49.54		mg/Kg		101	80 - 120	1	20
Lead	49.3	48.58		mg/Kg		99	80 - 120	2	20
Molybdenum	49.3	51.92		mg/Kg		105	80 - 120	1	20
Nickel	49.3	48.37		mg/Kg		98	80 - 120	0	20
Silver	24.6	24.79		mg/Kg		101	80 - 120	0	20
Thallium	49.3	47.80		mg/Kg		97	80 - 120	0	20
Vanadium	49.3	49.33		mg/Kg		100	80 - 120	1	20
Zinc	49.3	45.32		mg/Kg		92	80 - 120	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-233749/1-A
Matrix: Solid
Analysis Batch: 234080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0135	mg/Kg		05/12/22 16:44	05/13/22 14:44	1

Lab Sample ID: LCS 570-233749/2-A
Matrix: Solid
Analysis Batch: 234080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.385	0.4121		mg/Kg		107	85 - 121

Lab Sample ID: LCSD 570-233749/3-A
Matrix: Solid
Analysis Batch: 234080

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233749

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.392	0.4219		mg/Kg		108	85 - 121	2	10

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 570-234061/1-A
Matrix: Solid
Analysis Batch: 234274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		50.0	30.2	mg/Kg		05/13/22 11:53	05/13/22 11:53	1
HEM-SGT: Oil and Grease	ND		50.0	13.9	mg/Kg		05/13/22 11:53	05/13/22 11:53	1

Lab Sample ID: LCS 570-234061/2-A
Matrix: Solid
Analysis Batch: 234274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM: Oil and Grease	333	310.0		mg/Kg		93	78 - 114
HEM-SGT: Oil and Grease	167	153.3		mg/Kg		92	64 - 132

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCSD 570-234061/3-A
Matrix: Solid
Analysis Batch: 234274

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 234061

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM: Oil and Grease			333	323.3		mg/Kg		97	78 - 114	4	18
HEM-SGT: Oil and Grease			167	150.0		mg/Kg		90	64 - 132	2	34

Lab Sample ID: 570-95147-1 MS
Matrix: Solid
Analysis Batch: 234274

Client Sample ID: 202205050002
Prep Type: Total/NA
Prep Batch: 234061

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
HEM: Oil and Grease	53.1	H	332	381.9		mg/Kg		99	78 - 114		
HEM-SGT: Oil and Grease	29.9	J H	166	179.3		mg/Kg		90	64 - 132		

Lab Sample ID: 570-95147-1 MSD
Matrix: Solid
Analysis Batch: 234274

Client Sample ID: 202205050002
Prep Type: Total/NA
Prep Batch: 234061

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM: Oil and Grease	53.1	H	332	374.9		mg/Kg		97	78 - 114	2	18
HEM-SGT: Oil and Grease	29.9	J H	166	175.8		mg/Kg		88	64 - 132	2	34

QC Association Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

GC/MS VOA

Analysis Batch: 234588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8260B	234601
MB 570-234601/3-A	Method Blank	Total/NA	Solid	8260B	234601
LCS 570-234601/1-A	Lab Control Sample	Total/NA	Solid	8260B	234601
LCSD 570-234601/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	234601
570-95147-1 MS	202205050002	Total/NA	Solid	8260B	234601
570-95147-1 MSD	202205050002	Total/NA	Solid	8260B	234601

Prep Batch: 234601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	5030C	
MB 570-234601/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-234601/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-234601/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
570-95147-1 MS	202205050002	Total/NA	Solid	5030C	
570-95147-1 MSD	202205050002	Total/NA	Solid	5030C	

GC/MS Semi VOA

Prep Batch: 233796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3546	
MB 570-233796/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-233796/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-233796/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 235117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8270C	233796
MB 570-233796/1-A	Method Blank	Total/NA	Solid	8270C	233796
LCS 570-233796/2-A	Lab Control Sample	Total/NA	Solid	8270C	233796
LCSD 570-233796/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	233796

Prep Batch: 236468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3546	
MB 570-236468/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-236468/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-236468/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 237091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8270C SIM	236468

Analysis Batch: 237436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-236468/1-A	Method Blank	Total/NA	Solid	8270C SIM	236468
LCS 570-236468/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	236468
LCSD 570-236468/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	236468

GC Semi VOA

Prep Batch: 233622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3546	
MB 570-233622/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-233622/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-233622/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 233627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-233622/1-A	Method Blank	Total/NA	Solid	8081A	233622
LCS 570-233622/2-A	Lab Control Sample	Total/NA	Solid	8081A	233622
LCSD 570-233622/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	233622

Prep Batch: 233724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3546	
MB 570-233724/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-233724/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-233724/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 233769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3550C	
MB 570-233769/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-233769/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 570-233769/6-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-233769/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 570-233769/7-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 233928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-233724/1-A	Method Blank	Total/NA	Solid	8082	233724
LCS 570-233724/2-A	Lab Control Sample	Total/NA	Solid	8082	233724
LCSD 570-233724/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	233724

Analysis Batch: 234059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8015B	233769
MB 570-233769/1-A	Method Blank	Total/NA	Solid	8015B	233769
LCS 570-233769/2-A	Lab Control Sample	Total/NA	Solid	8015B	233769
LCS 570-233769/6-A	Lab Control Sample	Total/NA	Solid	8015B	233769
LCSD 570-233769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	233769
LCSD 570-233769/7-A	Lab Control Sample Dup	Total/NA	Solid	8015B	233769

Prep Batch: 234174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8151A	
MB 570-234174/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 570-234174/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 570-234174/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

GC Semi VOA

Analysis Batch: 234290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8081A	233622

Analysis Batch: 234344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8082	233724

Analysis Batch: 235557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8151A	234174
LCS 570-234174/2-A	Lab Control Sample	Total/NA	Solid	8151A	234174
LCSD 570-234174/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	234174

Analysis Batch: 235864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-234174/1-A	Method Blank	Total/NA	Solid	8151A	234174

Metals

Prep Batch: 233749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	7471A	
MB 570-233749/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-233749/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-233749/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Prep Batch: 233806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3050B	
MB 570-233806/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-233806/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-233806/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	3050B	

Analysis Batch: 234080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	7471A	233749
MB 570-233749/1-A	Method Blank	Total/NA	Solid	7471A	233749
LCS 570-233749/2-A	Lab Control Sample	Total/NA	Solid	7471A	233749
LCSD 570-233749/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	233749

Analysis Batch: 235048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	6010B	233806
MB 570-233806/1-A	Method Blank	Total/NA	Solid	6010B	233806
LCS 570-233806/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	233806
LCSD 570-233806/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	6010B	233806

Prep Batch: 236024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3050B	
MB 570-236024/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 570-236024/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 236024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-236024/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	3050B	

Analysis Batch: 236320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	6010B	236024
MB 570-236024/1-A ^5	Method Blank	Total/NA	Solid	6010B	236024
LCS 570-236024/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	236024
LCSD 570-236024/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	6010B	236024

General Chemistry

Prep Batch: 234061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	1664A	
MB 570-234061/1-A	Method Blank	Total/NA	Solid	1664A	
LCS 570-234061/2-A	Lab Control Sample	Total/NA	Solid	1664A	
LCSD 570-234061/3-A	Lab Control Sample Dup	Total/NA	Solid	1664A	
570-95147-1 MS	202205050002	Total/NA	Solid	1664A	
570-95147-1 MSD	202205050002	Total/NA	Solid	1664A	

Analysis Batch: 234274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	1664A	234061
MB 570-234061/1-A	Method Blank	Total/NA	Solid	1664A	234061
LCS 570-234061/2-A	Lab Control Sample	Total/NA	Solid	1664A	234061
LCSD 570-234061/3-A	Lab Control Sample Dup	Total/NA	Solid	1664A	234061
570-95147-1 MS	202205050002	Total/NA	Solid	1664A	234061
570-95147-1 MSD	202205050002	Total/NA	Solid	1664A	234061

Lab Chronicle

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.08 g	5 mL	234601	05/17/22 01:41	G6NI	ECL 4
Total/NA	Analysis	8260B		1	5 mL	5 mL	234588	05/17/22 03:10	N1A	ECL 4
	Instrument ID: GCMSLL									
Total/NA	Prep	3546			19.96 g	2 mL	233796	05/12/22 15:08	SP9M	ECL 4
Total/NA	Analysis	8270C		1			235117	05/18/22 15:30	N8CZ	ECL 4
	Instrument ID: GCMSTT									
Total/NA	Prep	3546			9.99 g	2 mL	236468	05/25/22 08:49	SP9M	ECL 4
Total/NA	Analysis	8270C SIM		1			237091	05/26/22 20:46	ULLI	ECL 4
	Instrument ID: GCMSAAA									
Total/NA	Prep	3550C			10.32 g	10 mL	233769	05/12/22 13:37	KG5J	ECL 4
Total/NA	Analysis	8015B		1			234059	05/14/22 03:26	A1W	ECL 4
	Instrument ID: GC47									
Total/NA	Prep	3546			20.06 g	10 mL	233622	05/12/22 15:30	SP9M	ECL 4
Total/NA	Analysis	8081A		1			234290	05/16/22 08:17	UHHN	ECL 4
	Instrument ID: GC52A									
Total/NA	Prep	3546			20.06 g	10 mL	233724	05/12/22 15:32	SP9M	ECL 4
Total/NA	Analysis	8082		1			234344	05/16/22 13:23	UHHN	ECL 4
	Instrument ID: GC81A									
Total/NA	Prep	8151A			50.27 g	5 mL	234174	05/17/22 15:21	J7WE	ECL 4
Total/NA	Analysis	8151A		1			235557	05/19/22 23:30	J7WE	ECL 4
	Instrument ID: GC41									
Total/NA	Prep	3050B			2.03 g	50 mL	236024	05/21/22 12:45		ECL 4
Total/NA	Analysis	6010B		5			236320	05/23/22 14:59	P1R	ECL 4
	Instrument ID: ICP10									
Total/NA	Prep	3050B			1.95 g	50 mL	233806	05/12/22 15:27	CS5Z	ECL 4
Total/NA	Analysis	6010B		5			235048	05/18/22 05:50	P1R	ECL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.52 g	50 mL	233749	05/12/22 16:44	SR3N	ECL 4
Total/NA	Analysis	7471A		1			234080	05/13/22 15:19	VWJ7	ECL 4
	Instrument ID: HG8									
Total/NA	Prep	1664A			30.15 g	30 g	234061	05/13/22 11:53	USUL	ECL 4
Total/NA	Analysis	1664A		1			234274	05/13/22 11:53	L6IE	ECL 4
	Instrument ID: NOEQUIP									

Laboratory References:
ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	2944	09-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1664A	1664A	Solid	HEM: Oil and Grease
1664A	1664A	Solid	HEM-SGT: Oil and Grease

Oregon	NELAP		CA300001	01-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3546	Solid	Polychlorinated biphenyls, Total

Method Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 4
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	ECL 4
8270C SIM	PAHs (GC/MS SIM)	SW846	ECL 4
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 4
8081A	Organochlorine Pesticides (GC)	SW846	ECL 4
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 4
8151A	Herbicides (GC)	SW846	ECL 4
6010B	Metals (ICP)	SW846	ECL 4
7471A	Mercury (CVAA)	SW846	ECL 4
1664A	HEM and SGT-HEM	1664A	ECL 4
1664A	HEM and SGT-HEM (Solid)	1664A	ECL 4
3050B	Preparation, Metals	SW846	ECL 4
3546	Microwave Extraction	SW846	ECL 4
3550C	Ultrasonic Extraction	SW846	ECL 4
5030C	Purge and Trap	SW846	ECL 4
7471A	Preparation, Mercury	SW846	ECL 4
8151A	Extraction (Herbicides)	SW846	ECL 4

Protocol References:

1664A = EPA-821-98-002

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-95147-1	202205050002	Solid	04/12/22 11:50	05/06/22 10:15

eurofins

Eaton Analytical

Ship To:
`Eurofins Calscience
2841 Dow Avenue

Tustin, CA 92780

Phone 714-895-5494 Fax. 714-894-7501

Folder #: 1002300
Report Due: 05/11/2022

Submittal Form

Date: 5/5/2022

*REPORTING REQUIRMENTS: *Do Not Combine Reports with any other samples submitted under different Folder Numbers!*
Report & Invoice must have the Folder# 1002300 Job # 1000014

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com
Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical, LLC
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified StateCertification # and Exp Date for requested tests + matrix.

Samples from **CALIFORNIA**

Loc: 570
95147

Sample ID	Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID
202205050002	Site #1	04/12/22 1150	DW		JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

Method	Prep Method	Analysis Requested
EPA 6010	EPA 3050B	Chromium TTLC Subbed
EPA 6010	EPA 3050B	Arsenic TTLC Subbed
EPA 6010	EPA 3050B	Nickel TTLC Subbed
EPA 6010	EPA 3050B	Barium TTLC Subbed
EPA 6010	EPA 3050B	Antimony TTLC Subbed
EPA 6010	EPA 3050B	Cadmium TTLC Subbed
EPA 6010	EPA 3050B	Beryllium TTLC Subbed
EPA 6010	EPA 3050B	Cobalt TTLC Subbed
EPA 6010	EPA 3050B	Copper TTLC Subbed
EPA 6010	EPA 3050B	Lead TTLC Subbed
EPA 6010	EPA 3050B	Molybdenum TTLC Subbed
EPA 6010	EPA 3050B	Selenium TTLC Subbed
EPA 6010	EPA 3050B	Silver TTLC Subbed
EPA 6010	EPA 3050B	Thallium TTLC Subbed
EPA 6010	EPA 3050B	Vanadium TTLC Subbed
EPA 6010	EPA 3050B	Zinc TTLC Subbed
EPA 7471A	EPA 7471A	Mercury TTLC Subbed

570-95147 Chain of Custody

Relinquished by: Sample Control Date 5/5/22 Time 11:16

Received by: Date 5/6/22 Time 10:15

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

Relinquished by: Sample Control Date _____ Time _____

Received by: Date _____ Time _____

1.2/1.9
FR-96

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www EurofinsUS com/Eaton

Sample ID	Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID	
202205050002	Site #1	04/12/22 1150	DW			JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

Method	Prep Method	Analysis Requested
EPA 8081A	EPA 3545	5157_8081 Standard List
EPA 8082	EPA 3545	8082
EPA 8151A	EPA 8151A	576 - Chlorinated Herbicides
EPA 8260B	EPA 5030C	Volatile Organic Compounds by EPA 8260B
EPA 8270C		8270C PAH SIM
EPA 8270C	EPA 3510C	8270
EPA 1664 HEM-SGT		Oil and Grease by 1664 HEM SGT
SW-846 9071B		Oil and Grease
EPA 8015M	EPA 3550B	6231 Motor Oil and 6232 Diesel

Relinquished by: Sample Control Date 5-5-22 Time 1116

Received by: 62 Date 5/6/22 Time 10 15

Relinquished by: Sample Control Date _____ Time _____

Received by: _____ Date _____ Time _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www EurofinsUS com/Eaton


ORIGIN ID:WHPA (626) 386-1100
MANUEL A. VASQUEZ
EUROFINS EATON ANALYTICAL
750 ROYAL OAKS DR SUITE 100
MONROVIA, CA 91016
UNITED STATES US
SHIP DATE: 05MAY22
ACTWGT: 35.00 LB
CAD: 0894108/CAFE3511
DIMS: 15x12x14 IN
BILL SENDER
TO
EUROFINS CALSCIENCE
2841 DOW AVE
SUITE 100
TUSTIN CA 92780
PO CB
DEPT: SUBOUTS/LOG-IN
D
5102
05.06
5
10:30
RT 678
ST 5.2
K
SS
E
TRK# 0201 5717 5703 5102
FRI - 06 MAY 10:30A
PRIORITY OVERNIGHT
92 DTHA
92780
CA-US SNA
Part # 156697-434 RRDB2 EXP 02/23
570-95147 Waybill

Login Sample Receipt Checklist

Client: Eurofins Eaton Analytical

Job Number: 570-95147-1

Login Number: 95147
List Number: 1
Creator: Luu, Sheila

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-88009-1
Client Project/Site: Folder# 1002300, Job# 1000014

For:
Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia, California 91016

Attn: Jackie Contreras

Linda C. Laver

Authorized for release by:
6/8/2022 11:54:28 AM

Linda C. Laver, Senior Project Manager
(916)374-4362
Linda.Laver@et.eurofinsus.com

Table of Contents

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

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

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Job ID: 320-88009-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-88009-1

Receipt
The sample was received on 5/17/2022 10:10 AM. 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 was 1.1º C.

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

General Chemistry
Method Moisture: The reference method does not list a specific holding time for this procedure; therefore, the laboratory defaults to an in-house holding time of 14 days. The following sample was received after 14 days: 202205050002 (320-88009-1).

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

Dioxin Prep
Method 8290: The following samples was received after the 30 day holding time (HT) had expired for Method 8290A: 202205050002 (320-88009-1).
preparation batch 320-592576

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

Detection Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Client Sample ID: 202205050002

Lab Sample ID: 320-88009-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	21	H H3 B	6.1	0.12	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	4.2	J H H3 q B	6.1	0.097	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.87	J H H3 B	6.1	0.11	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.81	J H H3 q B	6.1	0.16	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	1.1	J H H3 q B	6.1	0.13	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	1.8	J H H3 B	6.1	0.15	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.83	J H H3 B	6.1	0.12	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	2.4	J H H3 B	6.1	0.14	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	0.94	J H H3 B	6.1	0.13	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	1.0	J H H3 B	6.1	0.12	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	1.2	J H H3 B	6.1	0.077	pg/g	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.69	J H H3 B	6.1	0.13	pg/g	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.63	J H H3 B	6.1	0.095	pg/g	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.73	J H H3 B	1.2	0.076	pg/g	1	☼	8290A	Total/NA
OCDD	150	H H3 B	12	0.16	pg/g	1	☼	8290A	Total/NA
OCDF	13	H H3 B	12	0.13	pg/g	1	☼	8290A	Total/NA
Total HpCDD	40	H H3 B	6.1	0.12	pg/g	1	☼	8290A	Total/NA
Total HpCDF	10	H H3 q B	6.1	0.10	pg/g	1	☼	8290A	Total/NA
Total HxCDD	12	H H3 q B	6.1	0.15	pg/g	1	☼	8290A	Total/NA
Total HxCDF	9.8	H H3 q B	6.1	0.13	pg/g	1	☼	8290A	Total/NA
Total PeCDD	2.5	J H H3 q B	6.1	0.12	pg/g	1	☼	8290A	Total/NA
Total PeCDF	5.0	J H H3 q B	6.1	0.086	pg/g	1	☼	8290A	Total/NA
Total TCDD	0.48	J H H3 q	1.2	0.14	pg/g	1	☼	8290A	Total/NA
Total TCDF	2.9	H H3 q B	1.2	0.076	pg/g	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/17/22 10:10

Lab Sample ID: 320-88009-1
Matrix: Solid
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	21	H H3 B	6.1	0.12	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,4,6,7,8-HpCDF	4.2	J H H3 q B	6.1	0.097	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,4,7,8,9-HpCDF	0.87	J H H3 B	6.1	0.11	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,4,7,8-HxCDD	0.81	J H H3 q B	6.1	0.16	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,4,7,8-HxCDF	1.1	J H H3 q B	6.1	0.13	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,6,7,8-HxCDD	1.8	J H H3 B	6.1	0.15	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,6,7,8-HxCDF	0.83	J H H3 B	6.1	0.12	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,7,8,9-HxCDD	2.4	J H H3 B	6.1	0.14	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,7,8,9-HxCDF	0.94	J H H3 B	6.1	0.13	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,7,8-PeCDD	1.0	J H H3 B	6.1	0.12	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,7,8-PeCDF	1.2	J H H3 B	6.1	0.077	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
2,3,4,6,7,8-HxCDF	0.69	J H H3 B	6.1	0.13	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
2,3,4,7,8-PeCDF	0.63	J H H3 B	6.1	0.095	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
2,3,7,8-TCDD	ND	H H3	1.2	0.14	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
2,3,7,8-TCDF	0.73	J H H3 B	1.2	0.076	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
OCDD	150	H H3 B	12	0.16	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
OCDF	13	H H3 B	12	0.13	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total HpCDD	40	H H3 B	6.1	0.12	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total HpCDF	10	H H3 q B	6.1	0.10	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total HxCDD	12	H H3 q B	6.1	0.15	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total HxCDF	9.8	H H3 q B	6.1	0.13	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total PeCDD	2.5	J H H3 q B	6.1	0.12	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total PeCDF	5.0	J H H3 q B	6.1	0.086	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total TCDD	0.48	J H H3 q	1.2	0.14	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total TCDF	2.9	H H3 q B	1.2	0.076	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDF	*56*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-1,2,3,6,7,8-HxCDD	*73*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-2,3,7,8-TCDD	*73*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-2,3,7,8-TCDF	*71*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-OCDD	*60*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-1,2,3,7,8-PeCDD	*75*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*59*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-1,2,3,4,7,8-HxCDF	*72*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*98*			*06/03/22 13:44*	*06/06/22 15:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.2	H H3	0.1	0.1	%			05/20/22 15:35	1
Percent Solids	78.8	H H3	0.1	0.1	%			05/20/22 15:35	1

Surrogate Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		37TCDD							
Lab Sample ID	**Client Sample ID**								
320-88009-1	202205050002	98							
LCS 320-592576/2-A	Lab Control Sample	98							
LCSD 320-592576/3-A	Lab Control Sample Dup	98							
MB 320-592576/1-A	Method Blank	97							

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Isotope Dilution Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HpCDF (40-135)	HxDD (40-135)	TCDD (40-135)	TCDF (40-135)	OCDD (40-135)	PeCDD (40-135)	HpCDD (40-135)	PeCDF (40-135)
320-88009-1	202205050002	56	73	73	71	60	75	59	80
LCS 320-592576/2-A	Lab Control Sample	89	90	67	67	76	66	86	68
LCSD 320-592576/3-A	Lab Control Sample Dup	86	81	66	68	74	61	81	68
MB 320-592576/1-A	Method Blank	84	91	70	69	94	67	92	75

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDF (40-135)							
320-88009-1	202205050002	72							
LCS 320-592576/2-A	Lab Control Sample	87							
LCSD 320-592576/3-A	Lab Control Sample Dup	71							
MB 320-592576/1-A	Method Blank	85							

Surrogate Legend

HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HxDD = 13C-1,2,3,6,7,8-HxCDD
TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
OCDD = 13C-OCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
HxCDF = 13C-1,2,3,4,7,8-HxCDF

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

Lab Sample ID: MB 320-592576/1-A
Matrix: Solid
Analysis Batch: 593108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592576

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	1.67	J	5.0	0.051	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,4,6,7,8-HpCDF	1.07	J q	5.0	0.076	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,4,7,8,9-HpCDF	0.780	J q	5.0	0.082	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,4,7,8-HxCDD	0.713	J q	5.0	0.046	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,4,7,8-HxCDF	0.798	J	5.0	0.056	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,6,7,8-HxCDD	0.793	J	5.0	0.040	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,6,7,8-HxCDF	0.695	J	5.0	0.057	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,7,8,9-HxCDD	0.752	J	5.0	0.040	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,7,8,9-HxCDF	0.695	J	5.0	0.058	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,7,8-PeCDD	0.693	J	5.0	0.096	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,7,8-PeCDF	0.641	J	5.0	0.057	pg/g		06/03/22 13:44	06/06/22 13:12	1
2,3,4,6,7,8-HxCDF	0.744	J	5.0	0.054	pg/g		06/03/22 13:44	06/06/22 13:12	1
2,3,4,7,8-PeCDF	0.573	J	5.0	0.069	pg/g		06/03/22 13:44	06/06/22 13:12	1
2,3,7,8-TCDD	ND		1.0	0.19	pg/g		06/03/22 13:44	06/06/22 13:12	1
2,3,7,8-TCDF	0.258	J q	1.0	0.032	pg/g		06/03/22 13:44	06/06/22 13:12	1
OCDD	8.56	J	10	0.074	pg/g		06/03/22 13:44	06/06/22 13:12	1
OCDF	2.30	J	10	0.099	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total HpCDD	2.55	J	5.0	0.051	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total HpCDF	2.19	J q	5.0	0.079	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total HxCDD	2.26	J q	5.0	0.042	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total HxCDF	2.93	J	5.0	0.056	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total PeCDD	0.883	J q	5.0	0.096	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total PeCDF	1.21	J	5.0	0.063	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total TCDD	ND		1.0	0.19	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total TCDF	0.258	J q	1.0	0.032	pg/g		06/03/22 13:44	06/06/22 13:12	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDF	*84*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-1,2,3,6,7,8-HxCDD	*91*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-2,3,7,8-TCDD	*70*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-2,3,7,8-TCDF	*69*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-OCDD	*94*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-1,2,3,7,8-PeCDD	*67*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*92*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-1,2,3,7,8-PeCDF	*75*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-1,2,3,4,7,8-HxCDF	*85*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*97*			*06/03/22 13:44*	*06/06/22 13:12*	*1*

Lab Sample ID: LCS 320-592576/2-A
Matrix: Solid
Analysis Batch: 593108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3,4,6,7,8-HpCDD	100	105		pg/g		105	86 - 134
1,2,3,4,6,7,8-HpCDF	100	99.0		pg/g		99	81 - 137
1,2,3,4,7,8,9-HpCDF	100	102		pg/g		102	79 - 139

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

Lab Sample ID: LCS 320-592576/2-A
Matrix: Solid
Analysis Batch: 593108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592576

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3,4,7,8-HxCDD			100	99.0		pg/g		99	65 - 144		
1,2,3,4,7,8-HxCDF			100	105		pg/g		105	72 - 140		
1,2,3,6,7,8-HxCDD			100	102		pg/g		102	73 - 147		
1,2,3,6,7,8-HxCDF			100	101		pg/g		101	63 - 152		
1,2,3,7,8,9-HxCDD			100	84.2		pg/g		84	80 - 143		
1,2,3,7,8,9-HxCDF			100	102		pg/g		102	72 - 152		
1,2,3,7,8-PeCDD			100	109		pg/g		109	79 - 134		
1,2,3,7,8-PeCDF			100	105		pg/g		105	81 - 134		
2,3,4,6,7,8-HxCDF			100	103		pg/g		103	72 - 151		
2,3,4,7,8-PeCDF			100	106		pg/g		106	76 - 132		
2,3,7,8-TCDD			20.0	20.6		pg/g		103	77 - 130		
2,3,7,8-TCDF			20.0	20.4		pg/g		102	79 - 137		
OCDD			200	187		pg/g		93	80 - 137		
OCDF			200	198		pg/g		99	75 - 141		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-1,2,3,4,6,7,8-HpCDF	*89*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*90*		*40 - 135*
13C-2,3,7,8-TCDD	*67*		*40 - 135*
13C-2,3,7,8-TCDF	*67*		*40 - 135*
13C-OCDD	*76*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*66*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*86*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*68*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*87*		*40 - 135*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*98*		

Lab Sample ID: LCSD 320-592576/3-A
Matrix: Solid
Analysis Batch: 593108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 592576

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD			100	101		pg/g		101	86 - 134	4	20
1,2,3,4,6,7,8-HpCDF			100	98.0		pg/g		98	81 - 137	1	20
1,2,3,4,7,8,9-HpCDF			100	101		pg/g		101	79 - 139	2	20
1,2,3,4,7,8-HxCDD			100	103		pg/g		103	65 - 144	4	20
1,2,3,4,7,8-HxCDF			100	103		pg/g		103	72 - 140	1	20
1,2,3,6,7,8-HxCDD			100	98.6		pg/g		99	73 - 147	4	20
1,2,3,6,7,8-HxCDF			100	99.4		pg/g		99	63 - 152	2	20
1,2,3,7,8,9-HxCDD			100	95.7		pg/g		96	80 - 143	13	20
1,2,3,7,8,9-HxCDF			100	101		pg/g		101	72 - 152	1	20
1,2,3,7,8-PeCDD			100	110		pg/g		110	79 - 134	1	20
1,2,3,7,8-PeCDF			100	100		pg/g		100	81 - 134	4	20
2,3,4,6,7,8-HxCDF			100	102		pg/g		102	72 - 151	1	20
2,3,4,7,8-PeCDF			100	106		pg/g		106	76 - 132	0	20
2,3,7,8-TCDD			20.0	20.8		pg/g		104	77 - 130	1	20

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

Lab Sample ID: LCSD 320-592576/3-A
Matrix: Solid
Analysis Batch: 593108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 592576

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDF			20.0	20.3		pg/g		102	79 - 137	1	20
OCDD			200	185		pg/g		93	80 - 137	1	20
OCDF			200	193		pg/g		96	75 - 141	2	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-1,2,3,4,6,7,8-HpCDF	*86*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*81*		*40 - 135*
13C-2,3,7,8-TCDD	*66*		*40 - 135*
13C-2,3,7,8-TCDF	*68*		*40 - 135*
13C-OCDD	*74*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*61*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*81*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*68*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*71*		*40 - 135*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*98*		

QC Association Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Specialty Organics

Prep Batch: 592576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88009-1	202205050002	Total/NA	Solid	8290	
MB 320-592576/1-A	Method Blank	Total/NA	Solid	8290	
LCS 320-592576/2-A	Lab Control Sample	Total/NA	Solid	8290	
LCSD 320-592576/3-A	Lab Control Sample Dup	Total/NA	Solid	8290	

Analysis Batch: 593108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88009-1	202205050002	Total/NA	Solid	8290A	592576
MB 320-592576/1-A	Method Blank	Total/NA	Solid	8290A	592576
LCS 320-592576/2-A	Lab Control Sample	Total/NA	Solid	8290A	592576
LCSD 320-592576/3-A	Lab Control Sample Dup	Total/NA	Solid	8290A	592576

General Chemistry

Analysis Batch: 589349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88009-1	202205050002	Total/NA	Solid	D 2216	

Lab Chronicle

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/17/22 10:10

Lab Sample ID: 320-88009-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			589349	05/20/22 15:35	TCS	TAL SAC

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/17/22 10:10

Lab Sample ID: 320-88009-1
Matrix: Solid
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.34 g	20.0 uL	592576	06/03/22 13:44	CB	TAL SAC
Total/NA	Analysis	8290A		1			593108	06/06/22 15:35	GRB	TAL SAC

Laboratory References:

TAL SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Eurofins Eaton Analytical
Job ID: 320-88009-1
Project/Site: Folder# 1002300, Job# 1000014

Laboratory: Eurofins Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
D 2216		Solid	Percent Moisture
D 2216		Solid	Percent Solids

Method Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Method	Method Description	Protocol	Laboratory
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
8290	Soxhlet Extraction of Dioxins and Furans	SW846	TAL SAC

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88009-1	202205050002	Solid	04/12/22 11:50	05/17/22 10:10

eurofins | Eaton Analytical

Submittal Form

Date: 5/16/2022

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # **1002300** Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Ship To:
`Test America, Inc - Sacramento
880 Riverside Parkway

West Sacramento, CA 95605-1501

Phone: 916-373-5600 Fax: 916-372-7768

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com
Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical, LLC
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified StateCertification # and Exp Date for requested tests + matrix.

Samples from: **CALIFORNIA**

Folder #: 1002300
Report Due: 05/11/2022

Sample ID	Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID
202205050002	Site #1	04/12/22 1150	DW		JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

Method	Prep Method	Analysis Requested
EPA8290	EPA 3510C	Dioxin/Furan - MDL and RL reporting

320-88009 Chain of Custody

Relinquished by: Sample Control EC Date 5/16/22 Time 1700

Received by: Date 5/17/22 Time 1010

Relinquished by: Sample Control Date Time

Received by: Date Time

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Login Sample Receipt Checklist

Client: Eurofins Eaton Analytical

Job Number: 320-88009-1

Login Number: 88009
List Number: 1
Creator: Her, David A

List Source: Eurofins Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	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?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	False	Matrix listed on COC as DW, but sample is soil
Samples are received within Holding Time (excluding tests with immediate HTs)	False	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

Laboratory Job ID: 320-88009-1
Client Project/Site: Folder# 1002300, Job# 1000014

For:
Eurofins Eaton Analytical
750 Royal Oaks Drive
Suite 100
Monrovia, California 91016

Attn: Jackie Contreras

Linda C. Laver

Authorized for release by:
6/8/2022 11:54:28 AM

Linda C. Laver, Senior Project Manager
(916)374-4362
Linda.Laver@et.eurofinsus.com

Table of Contents

Definitions/Glossary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

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

Job ID: 320-88009-1

Laboratory: Eurofins Sacramento

Narrative

Job Narrative
320-88009-1

Receipt
The sample was received on 5/17/2022 10:10 AM. 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 was 1.1º C.

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

General Chemistry
Method Moisture: The reference method does not list a specific holding time for this procedure; therefore, the laboratory defaults to an in-house holding time of 14 days. The following sample was received after 14 days: 202205050002 (320-88009-1).

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

Dioxin Prep
Method 8290: The following samples was received after the 30 day holding time (HT) had expired for Method 8290A: 202205050002 (320-88009-1).
preparation batch 320-592576

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

Detection Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Client Sample ID: 202205050002 — Lab Sample ID: 320-88009-1

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,6,7,8-HpCDD	21	H H3 B	6.1	0.12	pg/g	1	☼	8290A	Total/NA
1,2,3,4,6,7,8-HpCDF	4.2	J H H3 q B	6.1	0.097	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8,9-HpCDF	0.87	J H H3 B	6.1	0.11	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDD	0.81	J H H3 q B	6.1	0.16	pg/g	1	☼	8290A	Total/NA
1,2,3,4,7,8-HxCDF	1.1	J H H3 q B	6.1	0.13	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDD	1.8	J H H3 B	6.1	0.15	pg/g	1	☼	8290A	Total/NA
1,2,3,6,7,8-HxCDF	0.83	J H H3 B	6.1	0.12	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDD	2.4	J H H3 B	6.1	0.14	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8,9-HxCDF	0.94	J H H3 B	6.1	0.13	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDD	1.0	J H H3 B	6.1	0.12	pg/g	1	☼	8290A	Total/NA
1,2,3,7,8-PeCDF	1.2	J H H3 B	6.1	0.077	pg/g	1	☼	8290A	Total/NA
2,3,4,6,7,8-HxCDF	0.69	J H H3 B	6.1	0.13	pg/g	1	☼	8290A	Total/NA
2,3,4,7,8-PeCDF	0.63	J H H3 B	6.1	0.095	pg/g	1	☼	8290A	Total/NA
2,3,7,8-TCDF	0.73	J H H3 B	1.2	0.076	pg/g	1	☼	8290A	Total/NA
OCDD	150	H H3 B	12	0.16	pg/g	1	☼	8290A	Total/NA
OCDF	13	H H3 B	12	0.13	pg/g	1	☼	8290A	Total/NA
Total HpCDD	40	H H3 B	6.1	0.12	pg/g	1	☼	8290A	Total/NA
Total HpCDF	10	H H3 q B	6.1	0.10	pg/g	1	☼	8290A	Total/NA
Total HxCDD	12	H H3 q B	6.1	0.15	pg/g	1	☼	8290A	Total/NA
Total HxCDF	9.8	H H3 q B	6.1	0.13	pg/g	1	☼	8290A	Total/NA
Total PeCDD	2.5	J H H3 q B	6.1	0.12	pg/g	1	☼	8290A	Total/NA
Total PeCDF	5.0	J H H3 q B	6.1	0.086	pg/g	1	☼	8290A	Total/NA
Total TCDD	0.48	J H H3 q	1.2	0.14	pg/g	1	☼	8290A	Total/NA
Total TCDF	2.9	H H3 q B	1.2	0.076	pg/g	1	☼	8290A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Client Sample ID: 202205050002

Date Collected: 04/12/22 11:50
Date Received: 05/17/22 10:10

Lab Sample ID: 320-88009-1

Matrix: Solid
Percent Solids: 78.8

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

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	21	H H3 B	6.1	0.12	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,4,6,7,8-HpCDF	4.2	J H H3 q B	6.1	0.097	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,4,7,8,9-HpCDF	0.87	J H H3 B	6.1	0.11	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,4,7,8-HxCDD	0.81	J H H3 q B	6.1	0.16	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,4,7,8-HxCDF	1.1	J H H3 q B	6.1	0.13	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,6,7,8-HxCDD	1.8	J H H3 B	6.1	0.15	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,6,7,8-HxCDF	0.83	J H H3 B	6.1	0.12	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,7,8,9-HxCDD	2.4	J H H3 B	6.1	0.14	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,7,8,9-HxCDF	0.94	J H H3 B	6.1	0.13	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,7,8-PeCDD	1.0	J H H3 B	6.1	0.12	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
1,2,3,7,8-PeCDF	1.2	J H H3 B	6.1	0.077	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
2,3,4,6,7,8-HxCDF	0.69	J H H3 B	6.1	0.13	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
2,3,4,7,8-PeCDF	0.63	J H H3 B	6.1	0.095	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
2,3,7,8-TCDD	ND	H H3	1.2	0.14	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
2,3,7,8-TCDF	0.73	J H H3 B	1.2	0.076	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
OCDD	150	H H3 B	12	0.16	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
OCDF	13	H H3 B	12	0.13	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total HpCDD	40	H H3 B	6.1	0.12	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total HpCDF	10	H H3 q B	6.1	0.10	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total HxCDD	12	H H3 q B	6.1	0.15	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total HxCDF	9.8	H H3 q B	6.1	0.13	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total PeCDD	2.5	J H H3 q B	6.1	0.12	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total PeCDF	5.0	J H H3 q B	6.1	0.086	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total TCDD	0.48	J H H3 q	1.2	0.14	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1
Total TCDF	2.9	H H3 q B	1.2	0.076	pg/g	☼	06/03/22 13:44	06/06/22 15:35	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDF	*56*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-1,2,3,6,7,8-HxCDD	*73*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-2,3,7,8-TCDD	*73*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-2,3,7,8-TCDF	*71*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-OCDD	*60*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-1,2,3,7,8-PeCDD	*75*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*59*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*
13C-1,2,3,4,7,8-HxCDF	*72*		*40 - 135*	*06/03/22 13:44*	*06/06/22 15:35*	*1*

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*98*			*06/03/22 13:44*	*06/06/22 15:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.2	H H3	0.1	0.1	%			05/20/22 15:35	1
Percent Solids	78.8	H H3	0.1	0.1	%			05/20/22 15:35	1

Surrogate Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		37TCDD
Lab Sample ID	**Client Sample ID**	
320-88009-1	202205050002	98
LCS 320-592576/2-A	Lab Control Sample	98
LCSD 320-592576/3-A	Lab Control Sample Dup	98
MB 320-592576/1-A	Method Blank	97

Surrogate Legend

37TCDD = 37Cl4-2,3,7,8-TCDD

Isotope Dilution Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HpCDF (40-135)	HxDD (40-135)	TCDD (40-135)	TCDF (40-135)	OCDD (40-135)	PeCDD (40-135)	HpCDD (40-135)	PeCDF (40-135)
320-88009-1	202205050002	56	73	73	71	60	75	59	80
LCS 320-592576/2-A	Lab Control Sample	89	90	67	67	76	66	86	68
LCSD 320-592576/3-A	Lab Control Sample Dup	86	81	66	68	74	61	81	68
MB 320-592576/1-A	Method Blank	84	91	70	69	94	67	92	75

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDF (40-135)							
320-88009-1	202205050002	72							
LCS 320-592576/2-A	Lab Control Sample	87							
LCSD 320-592576/3-A	Lab Control Sample Dup	71							
MB 320-592576/1-A	Method Blank	85							

Surrogate Legend

HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
HxDD = 13C-1,2,3,6,7,8-HxCDD
TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
OCDD = 13C-OCDD
PeCDD = 13C-1,2,3,7,8-PeCDD
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
HxCDF = 13C-1,2,3,4,7,8-HxCDF

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

Lab Sample ID: MB 320-592576/1-A
Matrix: Solid
Analysis Batch: 593108

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 592576

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,4,6,7,8-HpCDD	1.67	J	5.0	0.051	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,4,6,7,8-HpCDF	1.07	J q	5.0	0.076	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,4,7,8,9-HpCDF	0.780	J q	5.0	0.082	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,4,7,8-HxCDD	0.713	J q	5.0	0.046	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,4,7,8-HxCDF	0.798	J	5.0	0.056	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,6,7,8-HxCDD	0.793	J	5.0	0.040	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,6,7,8-HxCDF	0.695	J	5.0	0.057	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,7,8,9-HxCDD	0.752	J	5.0	0.040	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,7,8,9-HxCDF	0.695	J	5.0	0.058	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,7,8-PeCDD	0.693	J	5.0	0.096	pg/g		06/03/22 13:44	06/06/22 13:12	1
1,2,3,7,8-PeCDF	0.641	J	5.0	0.057	pg/g		06/03/22 13:44	06/06/22 13:12	1
2,3,4,6,7,8-HxCDF	0.744	J	5.0	0.054	pg/g		06/03/22 13:44	06/06/22 13:12	1
2,3,4,7,8-PeCDF	0.573	J	5.0	0.069	pg/g		06/03/22 13:44	06/06/22 13:12	1
2,3,7,8-TCDD	ND		1.0	0.19	pg/g		06/03/22 13:44	06/06/22 13:12	1
2,3,7,8-TCDF	0.258	J q	1.0	0.032	pg/g		06/03/22 13:44	06/06/22 13:12	1
OCDD	8.56	J	10	0.074	pg/g		06/03/22 13:44	06/06/22 13:12	1
OCDF	2.30	J	10	0.099	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total HpCDD	2.55	J	5.0	0.051	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total HpCDF	2.19	J q	5.0	0.079	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total HxCDD	2.26	J q	5.0	0.042	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total HxCDF	2.93	J	5.0	0.056	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total PeCDD	0.883	J q	5.0	0.096	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total PeCDF	1.21	J	5.0	0.063	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total TCDD	ND		1.0	0.19	pg/g		06/03/22 13:44	06/06/22 13:12	1
Total TCDF	0.258	J q	1.0	0.032	pg/g		06/03/22 13:44	06/06/22 13:12	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,6,7,8-HpCDF	*84*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-1,2,3,6,7,8-HxCDD	*91*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-2,3,7,8-TCDD	*70*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-2,3,7,8-TCDF	*69*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-OCDD	*94*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-1,2,3,7,8-PeCDD	*67*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*92*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-1,2,3,7,8-PeCDF	*75*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*
13C-1,2,3,4,7,8-HxCDF	*85*		*40 - 135*	*06/03/22 13:44*	*06/06/22 13:12*	*1*

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
37Cl4-2,3,7,8-TCDD	*97*			*06/03/22 13:44*	*06/06/22 13:12*	*1*

Lab Sample ID: LCS 320-592576/2-A
Matrix: Solid
Analysis Batch: 593108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3,4,6,7,8-HpCDD	100	105		pg/g		105	86 - 134
1,2,3,4,6,7,8-HpCDF	100	99.0		pg/g		99	81 - 137
1,2,3,4,7,8,9-HpCDF	100	102		pg/g		102	79 - 139

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

Lab Sample ID: LCS 320-592576/2-A
Matrix: Solid
Analysis Batch: 593108

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 592576

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3,4,7,8-HxCDD			100	99.0		pg/g		99	65 - 144		
1,2,3,4,7,8-HxCDF			100	105		pg/g		105	72 - 140		
1,2,3,6,7,8-HxCDD			100	102		pg/g		102	73 - 147		
1,2,3,6,7,8-HxCDF			100	101		pg/g		101	63 - 152		
1,2,3,7,8,9-HxCDD			100	84.2		pg/g		84	80 - 143		
1,2,3,7,8,9-HxCDF			100	102		pg/g		102	72 - 152		
1,2,3,7,8-PeCDD			100	109		pg/g		109	79 - 134		
1,2,3,7,8-PeCDF			100	105		pg/g		105	81 - 134		
2,3,4,6,7,8-HxCDF			100	103		pg/g		103	72 - 151		
2,3,4,7,8-PeCDF			100	106		pg/g		106	76 - 132		
2,3,7,8-TCDD			20.0	20.6		pg/g		103	77 - 130		
2,3,7,8-TCDF			20.0	20.4		pg/g		102	79 - 137		
OCDD			200	187		pg/g		93	80 - 137		
OCDF			200	198		pg/g		99	75 - 141		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-1,2,3,4,6,7,8-HpCDF	*89*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*90*		*40 - 135*
13C-2,3,7,8-TCDD	*67*		*40 - 135*
13C-2,3,7,8-TCDF	*67*		*40 - 135*
13C-OCDD	*76*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*66*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*86*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*68*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*87*		*40 - 135*

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*98*		

Lab Sample ID: LCSD 320-592576/3-A
Matrix: Solid
Analysis Batch: 593108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 592576

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD			100	101		pg/g		101	86 - 134	4	20
1,2,3,4,6,7,8-HpCDF			100	98.0		pg/g		98	81 - 137	1	20
1,2,3,4,7,8,9-HpCDF			100	101		pg/g		101	79 - 139	2	20
1,2,3,4,7,8-HxCDD			100	103		pg/g		103	65 - 144	4	20
1,2,3,4,7,8-HxCDF			100	103		pg/g		103	72 - 140	1	20
1,2,3,6,7,8-HxCDD			100	98.6		pg/g		99	73 - 147	4	20
1,2,3,6,7,8-HxCDF			100	99.4		pg/g		99	63 - 152	2	20
1,2,3,7,8,9-HxCDD			100	95.7		pg/g		96	80 - 143	13	20
1,2,3,7,8,9-HxCDF			100	101		pg/g		101	72 - 152	1	20
1,2,3,7,8-PeCDD			100	110		pg/g		110	79 - 134	1	20
1,2,3,7,8-PeCDF			100	100		pg/g		100	81 - 134	4	20
2,3,4,6,7,8-HxCDF			100	102		pg/g		102	72 - 151	1	20
2,3,4,7,8-PeCDF			100	106		pg/g		106	76 - 132	0	20
2,3,7,8-TCDD			20.0	20.8		pg/g		104	77 - 130	1	20

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

Lab Sample ID: LCSD 320-592576/3-A
Matrix: Solid
Analysis Batch: 593108

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 592576

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDF			20.0	20.3		pg/g		102	79 - 137	1	20
OCDD			200	185		pg/g		93	80 - 137	1	20
OCDF			200	193		pg/g		96	75 - 141	2	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-1,2,3,4,6,7,8-HpCDF	*86*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*81*		*40 - 135*
13C-2,3,7,8-TCDD	*66*		*40 - 135*
13C-2,3,7,8-TCDF	*68*		*40 - 135*
13C-OCDD	*74*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*61*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*81*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*68*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*71*		*40 - 135*

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
37Cl4-2,3,7,8-TCDD	*98*		

QC Association Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Specialty Organics

Prep Batch: 592576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88009-1	202205050002	Total/NA	Solid	8290	
MB 320-592576/1-A	Method Blank	Total/NA	Solid	8290	
LCS 320-592576/2-A	Lab Control Sample	Total/NA	Solid	8290	
LCSD 320-592576/3-A	Lab Control Sample Dup	Total/NA	Solid	8290	

Analysis Batch: 593108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88009-1	202205050002	Total/NA	Solid	8290A	592576
MB 320-592576/1-A	Method Blank	Total/NA	Solid	8290A	592576
LCS 320-592576/2-A	Lab Control Sample	Total/NA	Solid	8290A	592576
LCSD 320-592576/3-A	Lab Control Sample Dup	Total/NA	Solid	8290A	592576

General Chemistry

Analysis Batch: 589349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-88009-1	202205050002	Total/NA	Solid	D 2216	

Lab Chronicle

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/17/22 10:10

Lab Sample ID: 320-88009-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1			589349	05/20/22 15:35	TCS	TAL SAC

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/17/22 10:10

Lab Sample ID: 320-88009-1
Matrix: Solid
Percent Solids: 78.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			10.34 g	20.0 uL	592576	06/03/22 13:44	CB	TAL SAC
Total/NA	Analysis	8290A		1			593108	06/06/22 15:35	GRB	TAL SAC

Laboratory References:

TAL SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: Eurofins Eaton Analytical
Job ID: 320-88009-1
Project/Site: Folder# 1002300, Job# 1000014

Laboratory: Eurofins Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	2897	01-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
D 2216		Solid	Percent Moisture
D 2216		Solid	Percent Solids

Method Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Method	Method Description	Protocol	Laboratory
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC
D 2216	Percent Moisture	ASTM	TAL SAC
8290	Soxhlet Extraction of Dioxins and Furans	SW846	TAL SAC

Protocol References:

ASTM = ASTM International

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: Eurofins Eaton Analytical
Project/Site: Folder# 1002300, Job# 1000014

Job ID: 320-88009-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-88009-1	202205050002	Solid	04/12/22 11:50	05/17/22 10:10

eurofins | Eaton Analytical

Ship To:
`Test America, Inc - Sacramento
880 Riverside Parkway

West Sacramento, CA 95605-1501

Phone: 916-373-5600 Fax: 916-372-7768

Folder #: 1002300
Report Due: 05/11/2022

Submittal Form

Date: 5/16/2022

REPORTING REQUIRMENTS:** ***Do Not Combine Reports with any other samples submitted under different Folder Numbers!
Report & Invoice must have the Folder # **1002300** Job # **1000014**

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com
Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical, LLC
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified StateCertification # and Exp Date for requested tests + matrix.

Samples from: **CALIFORNIA**

Sample ID	Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID
202205050002	Site #1	04/12/22 1150	DW		JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

Method	Prep Method	Analysis Requested
EPA8290	EPA 3510C	Dioxin/Furan - MDL and RL reporting

320-88009 Chain of Custody

Relinquished by: Sample Control EC Date 5/16/22 Time 1700

Received by: Date 5/17/22 Time 1010

Relinquished by: Sample Control Date Time

Received by: Date Time

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www.EurofinsUS.com/Eaton

Login Sample Receipt Checklist

Client: Eurofins Eaton Analytical

Job Number: 320-88009-1

Login Number: 88009
List Number: 1
Creator: Her, David A

List Source: Eurofins Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	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?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	False	Matrix listed on COC as DW, but sample is soil
Samples are received within Holding Time (excluding tests with immediate HTs)	False	
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Tel: (714)895-5494

Laboratory Job ID: 570-95147-1
Client Project/Site: 1002300

For:
Eurofins Eaton Analytical
750 Royal Oaks Drive
Monrovia, California 91016

Attn: Jaclyn Contreras

Authorized for release by:
5/27/2022 4:24:16 PM
Sheila Luu, Project Mgmt. Assistant
Sheila.Luu@et.eurofinsus.com

Designee for

Xuan Dang, Project Manager I
(714)895-5494
Xuan.Dang@et.eurofinsus.com

Table of Contents

Definitions/Glossary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
H3	Sample was received and analyzed past holding time.
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.

Metals

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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

Job ID: 570-95147-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-95147-1

Comments
No additional comments.

Receipt
The sample was received on 5/6/2022 10:15 AM. 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 was 1.9º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) for preparation batch 570-234601 and analytical batch 570-234588 recovered outside control limits for the following analyte: 2-Hexanone. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The following sample was requested outside of holding time: 202205050002 (570-95147-1).

Method 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-234601 and analytical batch 570-234588 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260B: The matrix spike and duplicate (MS/MSD) associated with parent sample (570-95147-C-1-C MS) and (570-95147-C-1-D MSD) were analyzed outside of the 12-hour tune window. The associated laboratory control sample and duplicate (LCS/LCSD) were analyzed within the 12-hour tune window. LCS/LCSD precision and accuracy met acceptance criteria.

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

GC/MS Semi VOA
Method 8270C: The following analyte(s) recovered outside control limits for the LCSD associated with preparation batch 570-233796 and analytical batch 570-235117: Benzidine. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method 8270C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-233796 and analytical batch 570-235117 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8270C: The following sample was prepared outside of preparation holding time : 202205050002 (570-95147-1).

Method 8270C SIM: The following sample was prepared outside of preparation holding time : 202205050002 (570-95147-1).

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

GC Semi VOA
Method 8015B: The following sample was received outside of holding time: 202205050002 (570-95147-1).

Method 8081A: The following sample was prepared outside of preparation holding time: 202205050002 (570-95147-1).

Method 8081A: The continuing calibration verification (CCV) associated with 570-234290 recovered high and outside the control limits for 4,4'-DDE on one column. Results are confirmed on both columns and reported from the passing column. The associated sample is: 202205050002 (570-95147-1).

Method 8081A: The following samples were diluted due to abundance of non-target analytes: (570-95533-A-61-B MS) and (570-95533-A-61-C MSD). Because of this dilution, the matrix spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Job ID: 570-95147-1 (Continued)

Laboratory: Eurofins Calscience (Continued)

Method 8081A: The closing continuing calibration verification (CCV) associated with batch 570-234290 recovered above the upper control limit for 4,4'-DDD, 4,4'-DDE and 4,4'-DDT. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: 202205050002 (570-95147-1).

Method 8082: The following sample was prepared outside of preparation holding time : 202205050002 (570-95147-1).

Method 8151A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-234174 and analytical batch 570-235557 recovered outside control limits for the following analytes: 2,4,5-T, 2,4-DB, Dichlorprop, Dinoseb, MCPA, MCPP and 2,4,5-TP

Method 8151A: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 570-234174 and analytical batch 570-235557 recovered outside control limits for the following analytes: 2,4,5-T and 2,4-DB. 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 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries of Selenium for preparation batch 570-233806 and analytical batch 570-235048 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries of Silver, Arsenic, Cadmium, Copper, Molybdenum, Lead, Antimony, Thallium and Zinc for preparation batch 570-236024 and analytical batch 570-236320 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471A: The following sample was analyzed outside of analytical holding time due to an error in sample queue scheduling: 202205050002 (570-95147-1).

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

Organic Prep

Method 1664A: The following sample was prepared outside of preparation holding time per change order : 202205050002 (570-95147-1).

Method 8151A: The following sample was received outside of holding time: 202205050002 (570-95147-1).

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

VOA Prep

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

Detection Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Client Sample ID: 202205050002 — Lab Sample ID: 570-95147-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	3.7	J H H3	4.8	3.7	mg/Kg	1		8015B	Total/NA
TPH as Motor Oil (C17-C44)	20	J H H3	24	11	mg/Kg	1		8015B	Total/NA
Arsenic	6.38		2.96	1.37	mg/Kg	5		6010B	Total/NA
Barium	117		2.96	0.140	mg/Kg	5		6010B	Total/NA
Beryllium	0.567		0.493	0.0680	mg/Kg	5		6010B	Total/NA
Cadmium	0.209	J	0.493	0.0818	mg/Kg	5		6010B	Total/NA
Chromium	16.8		0.985	0.183	mg/Kg	5		6010B	Total/NA
Cobalt	7.11		0.985	0.203	mg/Kg	5		6010B	Total/NA
Copper	22.6		1.97	0.944	mg/Kg	5		6010B	Total/NA
Lead	6.69		1.97	0.403	mg/Kg	5		6010B	Total/NA
Molybdenum	0.320	J	1.97	0.186	mg/Kg	5		6010B	Total/NA
Nickel	17.4		1.97	0.357	mg/Kg	5		6010B	Total/NA
Vanadium	35.3		0.985	0.166	mg/Kg	5		6010B	Total/NA
Zinc	54.1		4.93	1.14	mg/Kg	5		6010B	Total/NA
Mercury	0.0535	J H	0.0801	0.0130	mg/Kg	1		7471A	Total/NA
HEM: Oil and Grease	53.1	H	49.8	30.0	mg/Kg	1		1664A	Total/NA
HEM-SGT: Oil and Grease	29.9	J H	49.8	13.8	mg/Kg	1		1664A	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND	H H3	0.98	0.29	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1,1-Trichloroethane	ND	H H3	0.98	0.23	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1,2,2-Tetrachloroethane	ND	H H3	2.0	0.54	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H H3	9.8	0.46	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1,2-Trichloroethane	ND	H H3	0.98	0.46	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1-Dichloroethane	ND	H H3	0.98	0.28	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1-Dichloroethene	ND	H H3	0.98	0.26	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,1-Dichloropropene	ND	H H3	2.0	0.38	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2,3-Trichlorobenzene	ND	H H3	2.0	0.98	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2,3-Trichloropropane	ND	H H3	2.0	0.41	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2,4-Trichlorobenzene	ND	H H3	2.0	0.40	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2,4-Trimethylbenzene	ND	H H3	2.0	0.59	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2-Dibromo-3-Chloropropane	ND	H H3	9.8	6.7	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2-Dibromoethane	ND	H H3	0.98	0.20	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2-Dichlorobenzene	ND	H H3	0.98	0.25	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2-Dichloroethane	ND	H H3	0.98	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,2-Dichloropropane	ND	H H3	0.98	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,3,5-Trimethylbenzene	ND	H H3	2.0	0.26	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,3-Dichlorobenzene	ND	H H3	0.98	0.25	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,3-Dichloropropane	ND	H H3	0.98	0.29	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
1,4-Dichlorobenzene	ND	H H3	0.98	0.30	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
2,2-Dichloropropane	ND	H H3	4.9	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
2-Butanone	ND	H H3	20	4.4	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
2-Chlorotoluene	ND	H H3	0.98	0.25	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
2-Hexanone	ND	H H3 *+	20	3.0	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
4-Chlorotoluene	ND	H H3	0.98	0.24	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
4-Methyl-2-pentanone	ND	H H3	20	2.9	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Acetone	ND	H H3 F1	20	9.7	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Benzene	ND	H H3	0.98	0.25	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Bromobenzene	ND	H H3	0.98	0.21	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Bromochloromethane	ND	H H3	2.0	0.44	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Bromodichloromethane	ND	H H3	0.98	0.32	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Bromoform	ND	H H3	4.9	1.3	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Bromomethane	ND	H H3	20	6.5	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
cis-1,2-Dichloroethene	ND	H H3	0.98	0.33	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
cis-1,3-Dichloropropene	ND	H H3	0.98	0.34	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Carbon disulfide	ND	H H3	9.8	0.39	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Carbon tetrachloride	ND	H H3	0.98	0.29	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Chlorobenzene	ND	H H3	0.98	0.26	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Chloroethane	ND	H H3	2.0	0.73	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Chloroform	ND	H H3	0.98	0.58	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Chloromethane	ND	H H3	20	1.5	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Dibromochloromethane	ND	H H3	2.0	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Dibromomethane	ND	H H3	0.98	0.30	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Dichlorodifluoromethane	ND	H H3	2.0	0.45	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Di-isopropyl ether (DIPE)	ND	H H3	0.98	0.49	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Ethanol	ND	H H3	250	65	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Ethylbenzene	ND	H H3	0.98	0.20	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Ethyl-t-butyl ether (ETBE)	ND	H H3	0.98	0.23	ug/Kg		05/17/22 01:41	05/17/22 03:10	1

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

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND	H H3	0.98	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Methylene Chloride	ND	H H3	9.8	3.1	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Methyl-t-Butyl Ether (MTBE)	ND	H H3	2.0	0.18	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Naphthalene	ND	H H3	9.8	5.1	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
n-Butylbenzene	ND	H H3	0.98	0.21	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
N-Propylbenzene	ND	H H3	2.0	0.26	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
o-Xylene	ND	H H3	0.98	0.25	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
m,p-Xylene	ND	H H3	2.0	0.47	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
p-Isopropyltoluene	ND	H H3	0.98	0.28	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
sec-Butylbenzene	ND	H H3	0.98	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Styrene	ND	H H3	0.98	0.31	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
trans-1,2-Dichloroethene	ND	H H3	0.98	0.30	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
trans-1,3-Dichloropropene	ND	H H3	2.0	0.28	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Tert-amyl-methyl ether (TAME)	ND	H H3	0.98	0.19	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
tert-Butyl alcohol (TBA)	ND	H H3	20	6.9	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
tert-Butylbenzene	ND	H H3	0.98	0.25	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Tetrachloroethene	ND	H H3	0.98	0.22	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Toluene	ND	H H3	0.98	0.26	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Trichloroethene	ND	H H3	2.0	0.38	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Trichlorofluoromethane	ND	H H3	9.8	0.27	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Vinyl acetate	ND	H H3 F1	9.8	3.9	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Vinyl chloride	ND	H H3	0.98	0.37	ug/Kg		05/17/22 01:41	05/17/22 03:10	1
Xylenes, Total	ND	H H3	2.0	0.59	ug/Kg		05/17/22 01:41	05/17/22 03:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 141*	*05/17/22 01:41*	*05/17/22 03:10*	*1*
4-Bromofluorobenzene (Surr)	*97*		*76 - 120*	*05/17/22 01:41*	*05/17/22 03:10*	*1*
Dibromofluoromethane (Surr)	*98*		*47 - 142*	*05/17/22 01:41*	*05/17/22 03:10*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*05/17/22 01:41*	*05/17/22 03:10*	*1*

Method: 8270C SIM - PAHs (GC/MS SIM)

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND	H H3	0.020	0.011	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
2-Methylnaphthalene	ND	H H3	0.020	0.011	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Acenaphthene	ND	H H3	0.020	0.013	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Acenaphthylene	ND	H H3	0.020	0.0097	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Anthracene	ND	H H3	0.020	0.0089	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Benzo[g,h,i]perylene	ND	H H3	0.020	0.011	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Benzo[k]fluoranthene	ND	H H3	0.020	0.0075	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Benzo[a]anthracene	ND	H H3	0.020	0.0080	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Benzo[a]pyrene	ND	H H3	0.020	0.0082	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Benzo[b]fluoranthene	ND	H H3	0.020	0.015	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Chrysene	ND	H H3	0.020	0.0065	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Dibenz(a,h)anthracene	ND	H H3	0.020	0.011	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Fluoranthene	ND	H H3	0.020	0.0080	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Fluorene	ND	H H3	0.020	0.0097	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Indeno[1,2,3-cd]pyrene	ND	H H3	0.020	0.012	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Naphthalene	ND	H H3	0.020	0.0090	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Phenanthrene	ND	H H3	0.020	0.015	mg/Kg		05/25/22 08:49	05/26/22 20:46	1
Pyrene	ND	H H3	0.020	0.0087	mg/Kg		05/25/22 08:49	05/26/22 20:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*55*		*22 - 130*	*05/25/22 08:49*	*05/26/22 20:46*	*1*
Nitrobenzene-d5 (Surr)	*52*		*20 - 145*	*05/25/22 08:49*	*05/26/22 20:46*	*1*
p-Terphenyl-d14 (Surr)	*58*		*33 - 147*	*05/25/22 08:49*	*05/26/22 20:46*	*1*

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

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

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND	H H3	0.50	0.054	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Acenaphthylene	ND	H H3	0.50	0.096	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Aniline	ND	H H3	0.50	0.12	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Anthracene	ND	H H3	0.50	0.051	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Azobenzene	ND	H H3	0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzidine	ND	H H3 *-	5.0	1.4	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzo[a]anthracene	ND	H H3	0.50	0.046	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzo[a]pyrene	ND	H H3	0.50	0.077	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzo[b]fluoranthene	ND	H H3	0.50	0.080	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzo[g,h,i]perylene	ND	H H3	0.50	0.084	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzoic acid	ND	H H3	2.5	1.6	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzo[k]fluoranthene	ND	H H3	0.50	0.094	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Benzyl alcohol	ND	H H3	0.50	0.085	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Bis(2-chloroethoxy)methane	ND	H H3	0.50	0.062	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Bis(2-chloroethyl)ether	ND	H H3	2.5	0.10	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
bis (2-Chloroisopropyl) ether	ND	H H3	0.50	0.060	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Bis(2-ethylhexyl) phthalate	ND	H H3	0.50	0.25	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4-Bromophenyl phenyl ether	ND	H H3	0.50	0.059	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Butyl benzyl phthalate	ND	H H3	0.50	0.22	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4-Chloroaniline	ND	H H3	0.50	0.073	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4-Chloro-3-methylphenol	ND	H H3	0.50	0.084	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2-Chloronaphthalene	ND	H H3	0.50	0.057	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2-Chlorophenol	ND	H H3	0.50	0.099	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4-Chlorophenyl phenyl ether	ND	H H3	0.50	0.070	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Chrysene	ND	H H3	0.50	0.068	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Dibenz(a,h)anthracene	ND	H H3	0.50	0.10	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Dibenzofuran	ND	H H3	0.50	0.094	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
1,2-Dichlorobenzene	ND	H H3	0.50	0.074	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
1,3-Dichlorobenzene	ND	H H3	0.50	0.069	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
1,4-Dichlorobenzene	ND	H H3	0.50	0.071	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
3,3'-Dichlorobenzidine	ND	H H3	2.5	0.82	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,4-Dichlorophenol	ND	H H3	0.50	0.10	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,6-Dichlorophenol	ND	H H3	0.50	0.065	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Diethyl phthalate	ND	H H3	0.50	0.061	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,4-Dimethylphenol	ND	H H3	0.50	0.045	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Dimethyl phthalate	ND	H H3	0.50	0.063	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Di-n-butyl phthalate	ND	H H3	0.50	0.073	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4,6-Dinitro-2-methylphenol	ND	H H3	2.5	0.97	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,4-Dinitrophenol	ND	H H3	2.0	1.6	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,4-Dinitrotoluene	ND	H H3	0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,6-Dinitrotoluene	ND	H H3	0.50	0.059	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Di-n-octyl phthalate	ND	H H3	0.50	0.36	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Fluoranthene	ND	H H3	0.50	0.058	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Fluorene	ND	H H3	0.50	0.067	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Hexachlorobenzene	ND	H H3	0.50	0.092	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Hexachloro-1,3-butadiene	ND	H H3	0.50	0.050	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Hexachlorocyclopentadiene	ND	H H3	1.5	0.38	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Hexachloroethane	ND	H H3	0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Indeno[1,2,3-cd]pyrene	ND	H H3	0.50	0.091	mg/Kg		05/12/22 15:08	05/18/22 15:30	1

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

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	ND	H H3	0.50	0.069	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
1-Methylnaphthalene	ND	H H3	0.50	0.036	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2-Methylnaphthalene	ND	H H3	0.50	0.057	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2-Methylphenol	ND	H H3	0.50	0.094	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
3 & 4 Methylphenol	ND	H H3	1.0	0.22	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Naphthalene	ND	H H3	0.50	0.058	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2-Nitroaniline	ND	H H3	0.50	0.065	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
3-Nitroaniline	ND	H H3	0.50	0.12	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4-Nitroaniline	ND	H H3	0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Nitrobenzene	ND	H H3	2.0	0.092	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2-Nitrophenol	ND	H H3	0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
4-Nitrophenol	ND	H H3	0.50	0.17	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
N-Nitrosodimethylamine	ND	H H3	0.50	0.077	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
N-Nitrosodi-n-propylamine	ND	H H3	0.50	0.067	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
N-Nitrosodiphenylamine	ND	H H3	0.50	0.095	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Pentachlorophenol	ND	H H3	2.5	1.0	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Phenanthrene	ND	H H3	0.50	0.061	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Phenol	ND	H H3	0.50	0.095	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Pyrene	ND	H H3	0.50	0.075	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
Pyridine	ND	H H3	0.50	0.082	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
1,2,4-Trichlorobenzene	ND	H H3	0.50	0.089	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,4,5-Trichlorophenol	ND	H H3	0.50	0.070	mg/Kg		05/12/22 15:08	05/18/22 15:30	1
2,4,6-Trichlorophenol	ND	H H3	0.50	0.078	mg/Kg		05/12/22 15:08	05/18/22 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*14 - 142*	*05/12/22 15:08*	*05/18/22 15:30*	*1*
2-Fluorophenol (Surr)	*68*		*10 - 123*	*05/12/22 15:08*	*05/18/22 15:30*	*1*
Nitrobenzene-d5 (Surr)	*72*		*10 - 129*	*05/12/22 15:08*	*05/18/22 15:30*	*1*
Phenol-d6 (Surr)	*70*		*10 - 120*	*05/12/22 15:08*	*05/18/22 15:30*	*1*
p-Terphenyl-d14 (Surr)	*81*		*31 - 139*	*05/12/22 15:08*	*05/18/22 15:30*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 134*	*05/12/22 15:08*	*05/18/22 15:30*	*1*

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

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

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	3.7	J H H3	4.8	3.7	mg/Kg		05/12/22 13:37	05/14/22 03:26	1
TPH as Motor Oil (C17-C44)	20	J H H3	24	11	mg/Kg		05/12/22 13:37	05/14/22 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*110*		*60 - 138*	*05/12/22 13:37*	*05/14/22 03:26*	*1*

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H H3	5.0	0.71	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
4,4'-DDE	ND	H H3	5.0	0.68	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
4,4'-DDT	ND	H H3	5.0	1.2	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Aldrin	ND	H H3	5.0	1.6	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
alpha-BHC	ND	H H3	5.0	0.59	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
alpha-Chlordane	ND	H H3	5.0	0.56	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
beta-BHC	ND	H H3	5.0	0.90	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Chlordane	ND	H H3	25	4.1	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
delta-BHC	ND	H H3	5.0	0.93	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Dieldrin	ND	H H3	5.0	0.55	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Endosulfan I	ND	H H3	5.0	1.1	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Endosulfan II	ND	H H3	5.0	0.54	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Endosulfan sulfate	ND	H H3	5.0	0.63	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Endrin	ND	H H3	5.0	0.67	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Endrin aldehyde	ND	H H3	5.0	3.3	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Endrin ketone	ND	H H3	5.0	0.90	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
gamma-BHC	ND	H H3	5.0	0.51	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
gamma-Chlordane	ND	H H3	5.0	3.4	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Heptachlor	ND	H H3	5.0	0.60	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Heptachlor epoxide	ND	H H3	5.0	0.54	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Methoxychlor	ND	H H3	5.0	1.2	ug/Kg		05/12/22 15:30	05/16/22 08:17	1
Toxaphene	ND	H H3	25	15	ug/Kg		05/12/22 15:30	05/16/22 08:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*37 - 151*	*05/12/22 15:30*	*05/16/22 08:17*	*1*
Tetrachloro-m-xylene	*75*		*38 - 148*	*05/12/22 15:30*	*05/16/22 08:17*	*1*

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND	H H3	50	39	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1221	ND	H H3	50	39	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1232	ND	H H3	50	39	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1242	ND	H H3	50	39	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1248	ND	H H3	50	39	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1254	ND	H H3	50	25	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1260	ND	H H3	50	25	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1262	ND	H H3	50	25	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Aroclor-1268	ND	H H3	50	25	ug/Kg		05/12/22 15:32	05/16/22 13:23	1
Polychlorinated biphenyls, Total	ND	H H3	50	39	ug/Kg		05/12/22 15:32	05/16/22 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*20 - 155*	*05/12/22 15:32*	*05/16/22 13:23*	*1*
Tetrachloro-m-xylene (Surr)	*61*		*25 - 126*	*05/12/22 15:32*	*05/16/22 13:23*	*1*

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 8151A - Herbicides (GC)

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND	H H3 *+	9.9	3.7	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
2,4,5-TP (Silvex)	ND	H H3 *1	9.9	7.5	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
2,4-D	ND	H H3	99	48	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
2,4-DB	ND	H H3 *+ *1	99	99	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
Dalapon	ND	H H3	250	72	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
Dicamba	ND	H H3	9.9	4.7	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
Dichlorprop	ND	H H3 *1	99	49	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
Dinoseb	ND	H H3 *1	99	58	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
MCPA	ND	H H3 *1	9900	4800	ug/Kg		05/17/22 15:21	05/19/22 23:30	1
MCPP	ND	H H3 *1	9900	6600	ug/Kg		05/17/22 15:21	05/19/22 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*112*		*20 - 163*	*05/17/22 15:21*	*05/19/22 23:30*	*1*

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 6010B - Metals (ICP)

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.85	8.57	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Arsenic	**6.38**		2.96	1.37	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Barium	**117**		2.96	0.140	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Beryllium	**0.567**		0.493	0.0680	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Cadmium	**0.209**	**J**	0.493	0.0818	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Chromium	**16.8**		0.985	0.183	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Cobalt	**7.11**		0.985	0.203	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Copper	**22.6**		1.97	0.944	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Lead	**6.69**		1.97	0.403	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Molybdenum	**0.320**	**J**	1.97	0.186	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Nickel	**17.4**		1.97	0.357	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Selenium	ND		3.08	1.25	mg/Kg		05/12/22 15:27	05/18/22 05:50	5
Silver	ND		1.48	0.142	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Thallium	ND		9.85	6.95	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Vanadium	**35.3**		0.985	0.166	mg/Kg		05/21/22 12:45	05/23/22 14:59	5
Zinc	**54.1**		4.93	1.14	mg/Kg		05/21/22 12:45	05/23/22 14:59	5

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 7471A - Mercury (CVAA)

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0535	J H	0.0801	0.0130	mg/Kg		05/12/22 16:44	05/13/22 15:19	1

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

General Chemistry

Client Sample ID: 202205050002
Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	53.1	H	49.8	30.0	mg/Kg		05/13/22 11:53	05/13/22 11:53	1
HEM-SGT: Oil and Grease	29.9	J H	49.8	13.8	mg/Kg		05/13/22 11:53	05/13/22 11:53	1

Surrogate Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(64-141)	(76-120)	(47-142)	(80-120)
570-95147-1	202205050002	92	97	98	100
570-95147-1 MS	202205050002	92	95	95	96
570-95147-1 MSD	202205050002	94	97	99	96
LCS 570-234601/1-A	Lab Control Sample	87	97	95	94
LCSD 570-234601/2-A	Lab Control Sample Dup	80	96	92	95
MB 570-234601/3-A	Method Blank	85	95	94	100

Surrogate Legend

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

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL6	TPHd14	TBP
Lab Sample ID	Client Sample ID	(14-142)	(10-123)	(10-129)	(10-120)	(31-139)	(10-134)
570-95147-1	202205050002	72	68	72	70	81	64
LCS 570-233796/2-A	Lab Control Sample	77	74	67	76	87	79
LCSD 570-233796/3-A	Lab Control Sample Dup	76	75	65	76	84	78
MB 570-233796/1-A	Method Blank	82	82	79	80	92	80

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL6 = Phenol-d6 (Surr)
TPHd14 = p-Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8270C SIM - PAHs (GC/MS SIM)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(22-130)	(20-145)	(33-147)
570-95147-1	202205050002	55	52	58
LCS 570-236468/2-A	Lab Control Sample	77	78	81
LCSD 570-236468/3-A	Lab Control Sample Dup	75	74	74
MB 570-236468/1-A	Method Blank	73	70	81

Surrogate Legend

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

Surrogate Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1
Lab Sample ID	Client Sample ID	(60-138)
570-95147-1	202205050002	110
LCS 570-233769/2-A	Lab Control Sample	112
LCS 570-233769/6-A	Lab Control Sample	113
LCSD 570-233769/3-A	Lab Control Sample Dup	111
LCSD 570-233769/7-A	Lab Control Sample Dup	109
MB 570-233769/1-A	Method Blank	109

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(37-151)	(38-148)
570-95147-1	202205050002	80	75
LCS 570-233622/2-A	Lab Control Sample	96	96
LCSD 570-233622/3-A	Lab Control Sample Dup	99	98
MB 570-233622/1-A	Method Blank	95	93

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB1	TCX1
Lab Sample ID	Client Sample ID	(20-155)	(25-126)
570-95147-1	202205050002	78	61
LCS 570-233724/2-A	Lab Control Sample	88	74
LCSD 570-233724/3-A	Lab Control Sample Dup	104	86
MB 570-233724/1-A	Method Blank	100	83

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	Client Sample ID	(20-163)
570-95147-1	202205050002	112
LCS 570-234174/2-A	Lab Control Sample	37
LCSD 570-234174/3-A	Lab Control Sample Dup	72
MB 570-234174/1-A	Method Blank	46

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-234601/3-A
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.29	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.54	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1,2-Trichloroethane	ND		1.0	0.46	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1-Dichloroethane	ND		1.0	0.28	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1-Dichloroethene	ND		1.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,1-Dichloropropene	ND		2.0	0.39	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2,3-Trichlorobenzene	ND		2.0	1.0	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2,3-Trichloropropane	ND		2.0	0.42	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2,4-Trichlorobenzene	ND		2.0	0.41	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2,4-Trimethylbenzene	ND		2.0	0.60	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2-Dibromo-3-Chloropropane	ND		10	6.8	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2-Dibromoethane	ND		1.0	0.21	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2-Dichloroethane	ND		1.0	0.28	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,2-Dichloropropane	ND		1.0	0.28	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,3,5-Trimethylbenzene	ND		2.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,3-Dichloropropane	ND		1.0	0.30	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
1,4-Dichlorobenzene	ND		1.0	0.31	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
2,2-Dichloropropane	ND		5.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
2-Butanone	ND		20	4.5	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
2-Chlorotoluene	ND		1.0	0.25	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
2-Hexanone	ND		20	3.1	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
4-Chlorotoluene	ND		1.0	0.24	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
4-Methyl-2-pentanone	ND		20	2.9	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Acetone	ND		20	9.8	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Benzene	ND		1.0	0.26	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Bromobenzene	ND		1.0	0.21	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Bromochloromethane	ND		2.0	0.44	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Bromodichloromethane	ND		1.0	0.33	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Bromoform	ND		5.0	1.3	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Bromomethane	ND		20	6.6	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
cis-1,2-Dichloroethene	ND		1.0	0.34	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
cis-1,3-Dichloropropene	ND		1.0	0.35	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Carbon disulfide	ND		10	0.40	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Chlorobenzene	ND		1.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Chloroethane	ND		2.0	0.74	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Chloroform	ND		1.0	0.59	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Chloromethane	ND		20	1.5	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Dibromochloromethane	ND		2.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Dibromomethane	ND		1.0	0.31	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Dichlorodifluoromethane	ND		2.0	0.45	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Di-isopropyl ether (DIPE)	ND		1.0	0.50	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Ethanol	ND		250	66	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Ethylbenzene	ND		1.0	0.21	ug/Kg		05/16/22 22:40	05/17/22 02:44	1

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

Lab Sample ID: MB 570-234601/3-A
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		1.0	0.24	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Isopropylbenzene	ND		1.0	0.28	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Methylene Chloride	ND		10	3.1	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0	0.19	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Naphthalene	ND		10	5.2	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
n-Butylbenzene	ND		1.0	0.21	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
N-Propylbenzene	ND		2.0	0.26	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
o-Xylene	ND		1.0	0.26	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
m,p-Xylene	ND		2.0	0.47	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
p-Isopropyltoluene	ND		1.0	0.28	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
sec-Butylbenzene	ND		1.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Styrene	ND		1.0	0.32	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
trans-1,3-Dichloropropene	ND		2.0	0.28	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Tert-amyl-methyl ether (TAME)	ND		1.0	0.19	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
tert-Butyl alcohol (TBA)	ND		20	7.0	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
tert-Butylbenzene	ND		1.0	0.25	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Tetrachloroethene	ND		1.0	0.22	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Toluene	ND		1.0	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Trichloroethene	ND		2.0	0.39	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Trichlorofluoromethane	ND		10	0.27	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Vinyl acetate	ND		10	3.9	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Vinyl chloride	ND		1.0	0.38	ug/Kg		05/16/22 22:40	05/17/22 02:44	1
Xylenes, Total	ND		2.0	0.60	ug/Kg		05/16/22 22:40	05/17/22 02:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*64 - 141*	*05/16/22 22:40*	*05/17/22 02:44*	*1*
4-Bromofluorobenzene (Surr)	*95*		*76 - 120*	*05/16/22 22:40*	*05/17/22 02:44*	*1*
Dibromofluoromethane (Surr)	*94*		*47 - 142*	*05/16/22 22:40*	*05/17/22 02:44*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*05/16/22 22:40*	*05/17/22 02:44*	*1*

Lab Sample ID: LCS 570-234601/1-A
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	49.7	48.79		ug/Kg		98	70 - 131
1,2-Dibromoethane	49.7	57.58		ug/Kg		116	80 - 120
1,2-Dichlorobenzene	49.7	55.34		ug/Kg		111	80 - 120
1,2-Dichloroethane	49.7	49.60		ug/Kg		100	80 - 120
Benzene	49.7	53.09		ug/Kg		107	80 - 120
Carbon tetrachloride	49.7	52.15		ug/Kg		105	80 - 131
Chlorobenzene	49.7	53.25		ug/Kg		107	80 - 120
Di-isopropyl ether (DIPE)	49.7	54.63		ug/Kg		110	77 - 130
Ethanol	497	447.3		ug/Kg		90	66 - 129
Ethylbenzene	49.7	52.01		ug/Kg		105	80 - 120
Ethyl-t-butyl ether (ETBE)	49.7	54.27		ug/Kg		109	80 - 135
Methyl-t-Butyl Ether (MTBE)	49.7	54.07		ug/Kg		109	80 - 122

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

Lab Sample ID: LCS 570-234601/1-A
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	49.7	52.41		ug/Kg		105	80 - 120
m,p-Xylene	99.4	101.9		ug/Kg		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*64 - 141*
4-Bromofluorobenzene (Surr)	*97*		*76 - 120*
Dibromofluoromethane (Surr)	*95*		*47 - 142*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: LCSD 570-234601/2-A
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 234601

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	50.1	47.64		ug/Kg		95	70 - 131	2	20
1,2-Dibromoethane	50.1	56.37		ug/Kg		113	80 - 120	2	20
1,2-Dichlorobenzene	50.1	54.42		ug/Kg		109	80 - 120	2	20
1,2-Dichloroethane	50.1	46.13		ug/Kg		92	80 - 120	7	20
Benzene	50.1	54.69		ug/Kg		109	80 - 120	3	20
Carbon tetrachloride	50.1	50.32		ug/Kg		100	80 - 131	4	20
Chlorobenzene	50.1	53.62		ug/Kg		107	80 - 120	1	20
Di-isopropyl ether (DIPE)	50.1	52.69		ug/Kg		105	77 - 130	4	20
Ethanol	501	450.1		ug/Kg		90	66 - 129	1	22
Ethylbenzene	50.1	53.16		ug/Kg		106	80 - 120	2	20
Ethyl-t-butyl ether (ETBE)	50.1	52.43		ug/Kg		105	80 - 135	3	20
Methyl-t-Butyl Ether (MTBE)	50.1	50.05		ug/Kg		100	80 - 122	8	20
o-Xylene	50.1	54.89		ug/Kg		110	80 - 120	5	20
m,p-Xylene	100	107.8		ug/Kg		108	80 - 120	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*64 - 141*
4-Bromofluorobenzene (Surr)	*96*		*76 - 120*
Dibromofluoromethane (Surr)	*92*		*47 - 142*
Toluene-d8 (Surr)	*95*		*80 - 120*

Lab Sample ID: 570-95147-1 MS
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: 202205050002
Prep Type: Total/NA
Prep Batch: 234601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	ND	H H3	49.6	43.02		ug/Kg		87	60 - 125
1,2-Dibromoethane	ND	H H3	49.6	44.17		ug/Kg		89	65 - 125
1,2-Dichlorobenzene	ND	H H3	49.6	34.07		ug/Kg		69	47 - 130
1,2-Dichloroethane	ND	H H3	49.6	40.90		ug/Kg		82	66 - 127
Benzene	ND	H H3	49.6	45.01		ug/Kg		91	70 - 125
Carbon tetrachloride	ND	H H3	49.6	45.35		ug/Kg		91	60 - 130
Chlorobenzene	ND	H H3	49.6	40.50		ug/Kg		82	65 - 125
Di-isopropyl ether (DIPE)	ND	H H3	49.6	47.33		ug/Kg		95	62 - 125

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

Lab Sample ID: 570-95147-1 MS
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: 202205050002
Prep Type: Total/NA
Prep Batch: 234601

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethanol	ND	H H3	496	300.9		ug/Kg		61	21 - 168
Ethylbenzene	ND	H H3	49.6	40.95		ug/Kg		83	64 - 125
Ethyl-t-butyl ether (ETBE)	ND	H H3	49.6	46.57		ug/Kg		94	61 - 125
Methyl-t-Butyl Ether (MTBE)	ND	H H3	49.6	45.57		ug/Kg		92	61 - 125
o-Xylene	ND	H H3	49.6	40.87		ug/Kg		82	59 - 128
m,p-Xylene	ND	H H3	99.2	81.63		ug/Kg		82	60 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*64 - 141*
4-Bromofluorobenzene (Surr)	*95*		*76 - 120*
Dibromofluoromethane (Surr)	*95*		*47 - 142*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 570-95147-1 MSD
Matrix: Solid
Analysis Batch: 234588

Client Sample ID: 202205050002
Prep Type: Total/NA
Prep Batch: 234601

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND	H H3	50.5	40.71		ug/Kg		81	60 - 125	6	20
1,2-Dibromoethane	ND	H H3	50.5	42.17		ug/Kg		83	65 - 125	5	21
1,2-Dichlorobenzene	ND	H H3	50.5	33.77		ug/Kg		67	47 - 130	1	29
1,2-Dichloroethane	ND	H H3	50.5	40.92		ug/Kg		81	66 - 127	0	20
Benzene	ND	H H3	50.5	42.82		ug/Kg		85	70 - 125	5	20
Carbon tetrachloride	ND	H H3	50.5	46.28		ug/Kg		92	60 - 130	2	20
Chlorobenzene	ND	H H3	50.5	38.22		ug/Kg		76	65 - 125	6	22
Di-isopropyl ether (DIPE)	ND	H H3	50.5	46.58		ug/Kg		92	62 - 125	2	20
Ethanol	ND	H H3	505	326.9		ug/Kg		65	21 - 168	8	40
Ethylbenzene	ND	H H3	50.5	37.97		ug/Kg		75	64 - 125	8	22
Ethyl-t-butyl ether (ETBE)	ND	H H3	50.5	45.84		ug/Kg		91	61 - 125	2	20
Methyl-t-Butyl Ether (MTBE)	ND	H H3	50.5	45.44		ug/Kg		90	61 - 125	0	20
o-Xylene	ND	H H3	50.5	38.52		ug/Kg		76	59 - 128	6	24
m,p-Xylene	ND	H H3	101	76.65		ug/Kg		76	60 - 125	6	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*64 - 141*
4-Bromofluorobenzene (Surr)	*97*		*76 - 120*
Dibromofluoromethane (Surr)	*99*		*47 - 142*
Toluene-d8 (Surr)	*96*		*80 - 120*

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

Lab Sample ID: MB 570-233796/1-A
Matrix: Solid
Analysis Batch: 235117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	ND		0.50	0.054	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Acenaphthylene	ND		0.50	0.096	mg/Kg		05/12/22 15:08	05/18/22 13:54	1

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

Lab Sample ID: MB 570-233796/1-A
Matrix: Solid
Analysis Batch: 235117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aniline	ND		0.50	0.12	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Anthracene	ND		0.50	0.051	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Azobenzene	ND		0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzidine	ND		5.0	1.4	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzo[a]anthracene	ND		0.50	0.046	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzo[a]pyrene	ND		0.50	0.076	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzo[b]fluoranthene	ND		0.50	0.080	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzo[g,h,i]perylene	ND		0.50	0.083	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzoic acid	ND		2.5	1.6	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzo[k]fluoranthene	ND		0.50	0.094	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Benzyl alcohol	ND		0.50	0.085	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Bis(2-chloroethoxy)methane	ND		0.50	0.062	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Bis(2-chloroethyl)ether	ND		2.5	0.10	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
bis (2-Chloroisopropyl) ether	ND		0.50	0.060	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Bis(2-ethylhexyl) phthalate	ND		0.50	0.25	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4-Bromophenyl phenyl ether	ND		0.50	0.059	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Butyl benzyl phthalate	ND		0.50	0.22	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4-Chloroaniline	ND		0.50	0.072	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4-Chloro-3-methylphenol	ND		0.50	0.084	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2-Chloronaphthalene	ND		0.50	0.057	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2-Chlorophenol	ND		0.50	0.099	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4-Chlorophenyl phenyl ether	ND		0.50	0.070	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Chrysene	ND		0.50	0.068	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Dibenz(a,h)anthracene	ND		0.50	0.10	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Dibenzofuran	ND		0.50	0.094	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
1,2-Dichlorobenzene	ND		0.50	0.074	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
1,3-Dichlorobenzene	ND		0.50	0.069	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
1,4-Dichlorobenzene	ND		0.50	0.071	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
3,3'-Dichlorobenzidine	ND		2.5	0.81	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,4-Dichlorophenol	ND		0.50	0.10	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,6-Dichlorophenol	ND		0.50	0.065	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Diethyl phthalate	ND		0.50	0.061	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,4-Dimethylphenol	ND		0.50	0.045	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Dimethyl phthalate	ND		0.50	0.063	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Di-n-butyl phthalate	ND		0.50	0.073	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4,6-Dinitro-2-methylphenol	ND		2.5	0.97	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,4-Dinitrophenol	ND		2.0	1.6	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,4-Dinitrotoluene	ND		0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,6-Dinitrotoluene	ND		0.50	0.059	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Di-n-octyl phthalate	ND		0.50	0.36	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Fluoranthene	ND		0.50	0.058	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Fluorene	ND		0.50	0.067	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Hexachlorobenzene	ND		0.50	0.092	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Hexachloro-1,3-butadiene	ND		0.50	0.050	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Hexachlorocyclopentadiene	ND		1.5	0.38	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Hexachloroethane	ND		0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.090	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Isophorone	ND		0.50	0.068	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
1-Methylnaphthalene	ND		0.50	0.036	mg/Kg		05/12/22 15:08	05/18/22 13:54	1

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

Lab Sample ID: MB 570-233796/1-A
Matrix: Solid
Analysis Batch: 235117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233796

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.50	0.057	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2-Methylphenol	ND		0.50	0.094	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
3 & 4 Methylphenol	ND		1.0	0.22	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Naphthalene	ND		0.50	0.058	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2-Nitroaniline	ND		0.50	0.065	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
3-Nitroaniline	ND		0.50	0.12	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4-Nitroaniline	ND		0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Nitrobenzene	ND		2.0	0.092	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2-Nitrophenol	ND		0.50	0.11	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
4-Nitrophenol	ND		0.50	0.17	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
N-Nitrosodimethylamine	ND		0.50	0.077	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
N-Nitrosodi-n-propylamine	ND		0.50	0.067	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
N-Nitrosodiphenylamine	ND		0.50	0.095	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Pentachlorophenol	ND		2.5	1.0	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Phenanthrene	ND		0.50	0.061	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Phenol	ND		0.50	0.095	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Pyrene	ND		0.50	0.075	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
Pyridine	ND		0.50	0.082	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
1,2,4-Trichlorobenzene	ND		0.50	0.089	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,4,5-Trichlorophenol	ND		0.50	0.070	mg/Kg		05/12/22 15:08	05/18/22 13:54	1
2,4,6-Trichlorophenol	ND		0.50	0.078	mg/Kg		05/12/22 15:08	05/18/22 13:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*14 - 142*	*05/12/22 15:08*	*05/18/22 13:54*	*1*
2-Fluorophenol (Surr)	*82*		*10 - 123*	*05/12/22 15:08*	*05/18/22 13:54*	*1*
Nitrobenzene-d5 (Surr)	*79*		*10 - 129*	*05/12/22 15:08*	*05/18/22 13:54*	*1*
Phenol-d6 (Surr)	*80*		*10 - 120*	*05/12/22 15:08*	*05/18/22 13:54*	*1*
p-Terphenyl-d14 (Surr)	*92*		*31 - 139*	*05/12/22 15:08*	*05/18/22 13:54*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*10 - 134*	*05/12/22 15:08*	*05/18/22 13:54*	*1*

Lab Sample ID: LCS 570-233796/2-A
Matrix: Solid
Analysis Batch: 235117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233796

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	5.00	4.544		mg/Kg		91	71 - 120
Acenaphthylene	5.00	4.977		mg/Kg		100	77 - 125
Butyl benzyl phthalate	5.00	4.614		mg/Kg		92	58 - 120
4-Chloro-3-methylphenol	5.00	3.883		mg/Kg		78	54 - 120
2-Chlorophenol	5.00	4.173		mg/Kg		83	65 - 121
1,4-Dichlorobenzene	5.00	3.870		mg/Kg		77	64 - 120
Dimethyl phthalate	5.00	4.453		mg/Kg		89	58 - 120
2,4-Dinitrotoluene	5.00	4.586		mg/Kg		92	64 - 120
Fluorene	5.00	4.805		mg/Kg		96	72 - 120
Naphthalene	5.00	3.849		mg/Kg		77	60 - 120
4-Nitrophenol	5.00	4.341		mg/Kg		87	52 - 121
N-Nitrosodi-n-propylamine	5.00	4.298		mg/Kg		86	61 - 123
Pentachlorophenol	5.00	2.885		mg/Kg		58	27 - 120

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

Lab Sample ID: LCS 570-233796/2-A
Matrix: Solid
Analysis Batch: 235117

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233796

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Phenol			5.00	4.116		mg/Kg		82	61 - 127		
Pyrene			5.00	4.751		mg/Kg		95	70 - 124		
1,2,4-Trichlorobenzene			5.00	3.614		mg/Kg		72	59 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*77*		*14 - 142*
2-Fluorophenol (Surr)	*74*		*10 - 123*
Nitrobenzene-d5 (Surr)	*67*		*10 - 129*
Phenol-d6 (Surr)	*76*		*10 - 120*
p-Terphenyl-d14 (Surr)	*87*		*31 - 139*
2,4,6-Tribromophenol (Surr)	*79*		*10 - 134*

Lab Sample ID: LCSD 570-233796/3-A
Matrix: Solid
Analysis Batch: 235117

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233796

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene			5.00	4.583		mg/Kg		92	71 - 120	1	20
Acenaphthylene			5.00	4.974		mg/Kg		99	77 - 125	0	20
Butyl benzyl phthalate			5.00	4.469		mg/Kg		89	58 - 120	3	20
4-Chloro-3-methylphenol			5.00	3.768		mg/Kg		75	54 - 120	3	20
2-Chlorophenol			5.00	4.151		mg/Kg		83	65 - 121	1	20
1,4-Dichlorobenzene			5.00	3.844		mg/Kg		77	64 - 120	1	20
Dimethyl phthalate			5.00	4.392		mg/Kg		88	58 - 120	1	20
2,4-Dinitrotoluene			5.00	4.567		mg/Kg		91	64 - 120	0	20
Fluorene			5.00	4.770		mg/Kg		95	72 - 120	1	20
Naphthalene			5.00	3.732		mg/Kg		75	60 - 120	3	20
4-Nitrophenol			5.00	4.389		mg/Kg		88	52 - 121	1	20
N-Nitrosodi-n-propylamine			5.00	4.376		mg/Kg		88	61 - 123	2	20
Pentachlorophenol			5.00	2.919		mg/Kg		58	27 - 120	1	20
Phenol			5.00	4.210		mg/Kg		84	61 - 127	2	20
Pyrene			5.00	4.552		mg/Kg		91	70 - 124	4	20
1,2,4-Trichlorobenzene			5.00	3.545		mg/Kg		71	59 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*76*		*14 - 142*
2-Fluorophenol (Surr)	*75*		*10 - 123*
Nitrobenzene-d5 (Surr)	*65*		*10 - 129*
Phenol-d6 (Surr)	*76*		*10 - 120*
p-Terphenyl-d14 (Surr)	*84*		*31 - 139*
2,4,6-Tribromophenol (Surr)	*78*		*10 - 134*

Method: 8270C SIM - PAHs (GC/MS SIM)

Lab Sample ID: MB 570-236468/1-A
Matrix: Solid
Analysis Batch: 237436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 236468

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	ND		0.020	0.011	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
2-Methylnaphthalene	ND		0.020	0.010	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Acenaphthene	ND		0.020	0.013	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Acenaphthylene	ND		0.020	0.0096	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Anthracene	ND		0.020	0.0089	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Benzo[g,h,i]perylene	ND		0.020	0.011	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Benzo[k]fluoranthene	ND		0.020	0.0075	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Benzo[a]anthracene	ND		0.020	0.0080	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Benzo[a]pyrene	ND		0.020	0.0082	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Benzo[b]fluoranthene	ND		0.020	0.015	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Chrysene	ND		0.020	0.0065	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Dibenz(a,h)anthracene	ND		0.020	0.011	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Fluoranthene	ND		0.020	0.0080	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Fluorene	ND		0.020	0.0097	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Indeno[1,2,3-cd]pyrene	ND		0.020	0.012	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Naphthalene	ND		0.020	0.0089	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Phenanthrene	ND		0.020	0.015	mg/Kg		05/24/22 09:06	05/27/22 10:14	1
Pyrene	ND		0.020	0.0087	mg/Kg		05/24/22 09:06	05/27/22 10:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*73*		*22 - 130*	*05/24/22 09:06*	*05/27/22 10:14*	*1*
Nitrobenzene-d5 (Surr)	*70*		*20 - 145*	*05/24/22 09:06*	*05/27/22 10:14*	*1*
p-Terphenyl-d14 (Surr)	*81*		*33 - 147*	*05/24/22 09:06*	*05/27/22 10:14*	*1*

Lab Sample ID: LCS 570-236468/2-A
Matrix: Solid
Analysis Batch: 237436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 236468

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1-Methylnaphthalene	0.200	0.1868		mg/Kg		93	54 - 132
2-Methylnaphthalene	0.200	0.1770		mg/Kg		89	50 - 127
Acenaphthene	0.200	0.1665		mg/Kg		83	53 - 125
Acenaphthylene	0.200	0.1955		mg/Kg		98	50 - 123
Anthracene	0.200	0.1791		mg/Kg		90	50 - 132
Benzo[g,h,i]perylene	0.200	0.1680		mg/Kg		84	50 - 130
Benzo[k]fluoranthene	0.200	0.1698		mg/Kg		85	49 - 150
Benzo[a]anthracene	0.200	0.1894		mg/Kg		95	50 - 133
Benzo[a]pyrene	0.200	0.1622		mg/Kg		81	50 - 134
Benzo[b]fluoranthene	0.200	0.1697		mg/Kg		85	50 - 142
Chrysene	0.200	0.1784		mg/Kg		89	51 - 129
Dibenz(a,h)anthracene	0.200	0.1682		mg/Kg		84	50 - 133
Fluoranthene	0.200	0.1761		mg/Kg		88	55 - 127
Fluorene	0.200	0.1760		mg/Kg		88	55 - 127
Indeno[1,2,3-cd]pyrene	0.200	0.1603		mg/Kg		80	50 - 148
Naphthalene	0.200	0.1723		mg/Kg		86	51 - 129
Phenanthrene	0.200	0.1702		mg/Kg		85	50 - 122
Pyrene	0.200	0.1897		mg/Kg		95	50 - 134

Method: 8270C SIM - PAHs (GC/MS SIM) (Continued)

Lab Sample ID: LCS 570-236468/2-A
Matrix: Solid
Analysis Batch: 237436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 236468

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	77		22 - 130
Nitrobenzene-d5 (Surr)	78		20 - 145
p-Terphenyl-d14 (Surr)	81		33 - 147

Lab Sample ID: LCSD 570-236468/3-A
Matrix: Solid
Analysis Batch: 237436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 236468

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1-Methylnaphthalene			0.200	0.1824		mg/Kg		91	54 - 132	2	20
2-Methylnaphthalene			0.200	0.1751		mg/Kg		88	50 - 127	1	20
Acenaphthene			0.200	0.1694		mg/Kg		85	53 - 125	2	20
Acenaphthylene			0.200	0.1936		mg/Kg		97	50 - 123	1	20
Anthracene			0.200	0.1820		mg/Kg		91	50 - 132	2	20
Benzo[g,h,i]perylene			0.200	0.1938		mg/Kg		97	50 - 130	14	20
Benzo[k]fluoranthene			0.200	0.1856		mg/Kg		93	49 - 150	9	20
Benzo[a]anthracene			0.200	0.1845		mg/Kg		92	50 - 133	3	20
Benzo[a]pyrene			0.200	0.1823		mg/Kg		91	50 - 134	12	20
Benzo[b]fluoranthene			0.200	0.1821		mg/Kg		91	50 - 142	7	20
Chrysene			0.200	0.1809		mg/Kg		90	51 - 129	1	20
Dibenz(a,h)anthracene			0.200	0.1853		mg/Kg		93	50 - 133	10	20
Fluoranthene			0.200	0.1616		mg/Kg		81	55 - 127	9	20
Fluorene			0.200	0.1723		mg/Kg		86	55 - 127	2	20
Indeno[1,2,3-cd]pyrene			0.200	0.1769		mg/Kg		88	50 - 148	10	20
Naphthalene			0.200	0.1814		mg/Kg		91	51 - 129	5	20
Phenanthrene			0.200	0.1750		mg/Kg		87	50 - 122	3	20
Pyrene			0.200	0.1848		mg/Kg		92	50 - 134	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	75		22 - 130
Nitrobenzene-d5 (Surr)	74		20 - 145
p-Terphenyl-d14 (Surr)	74		33 - 147

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

Lab Sample ID: MB 570-233769/1-A
Matrix: Solid
Analysis Batch: 234059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		5.0	3.8	mg/Kg		05/12/22 13:37	05/13/22 15:12	1
TPH as Motor Oil (C17-C44)	ND		25	11	mg/Kg		05/12/22 13:37	05/13/22 15:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	109		60 - 138	05/12/22 13:37	05/13/22 15:12	1

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

Lab Sample ID: LCS 570-233769/2-A
Matrix: Solid
Analysis Batch: 234059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233769

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	457.0		mg/Kg		114	80 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*112*		*60 - 138*

Lab Sample ID: LCS 570-233769/6-A
Matrix: Solid
Analysis Batch: 234059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233769

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TPH as Motor Oil (C17-C44)			400	395.6		mg/Kg		99	77 - 125		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*113*		*60 - 138*

Lab Sample ID: LCSD 570-233769/3-A
Matrix: Solid
Analysis Batch: 234059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233769

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	461.9		mg/Kg		115	80 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*111*		*60 - 138*

Lab Sample ID: LCSD 570-233769/7-A
Matrix: Solid
Analysis Batch: 234059

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233769

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TPH as Motor Oil (C17-C44)			400	390.2		mg/Kg		98	77 - 125	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*109*		*60 - 138*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 570-233622/1-A
Matrix: Solid
Analysis Batch: 233627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.72	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
4,4'-DDE	ND		5.0	0.69	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Aldrin	ND		5.0	1.6	ug/Kg		05/12/22 08:39	05/13/22 09:25	1

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

Lab Sample ID: MB 570-233622/1-A
Matrix: Solid
Analysis Batch: 233627

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		5.0	0.59	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
beta-BHC	ND		5.0	0.90	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Chlordane	ND		25	4.1	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
delta-BHC	ND		5.0	0.93	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Dieldrin	ND		5.0	0.55	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Endosulfan I	ND		5.0	1.1	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Endosulfan II	ND		5.0	0.55	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Endrin	ND		5.0	0.67	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Endrin ketone	ND		5.0	0.90	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
gamma-BHC	ND		5.0	0.51	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
gamma-Chlordane	ND		5.0	3.4	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Heptachlor	ND		5.0	0.60	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Methoxychlor	ND		5.0	1.2	ug/Kg		05/12/22 08:39	05/13/22 09:25	1
Toxaphene	ND		25	15	ug/Kg		05/12/22 08:39	05/13/22 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*37 - 151*	*05/12/22 08:39*	*05/13/22 09:25*	*1*
Tetrachloro-m-xylene	*93*		*38 - 148*	*05/12/22 08:39*	*05/13/22 09:25*	*1*

Lab Sample ID: LCS 570-233622/2-A
Matrix: Solid
Analysis Batch: 233627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233622

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	25.0	22.63		ug/Kg		91	54 - 154
4,4'-DDE	25.0	22.55		ug/Kg		90	51 - 149
4,4'-DDT	25.0	21.05		ug/Kg		84	39 - 152
Aldrin	25.0	19.97		ug/Kg		80	52 - 138
alpha-BHC	25.0	22.26		ug/Kg		89	51 - 140
alpha-Chlordane	25.0	20.53		ug/Kg		82	53 - 141
beta-BHC	25.0	21.70		ug/Kg		87	53 - 141
delta-BHC	25.0	23.28		ug/Kg		93	20 - 132
Dieldrin	25.0	20.84		ug/Kg		83	52 - 144
Endosulfan I	25.0	19.97		ug/Kg		80	49 - 139
Endosulfan II	25.0	20.92		ug/Kg		84	51 - 150
Endosulfan sulfate	25.0	20.97		ug/Kg		84	45 - 139
Endrin	25.0	16.78		ug/Kg		67	53 - 151
Endrin aldehyde	25.0	21.21		ug/Kg		85	31 - 146
gamma-BHC	25.0	21.83		ug/Kg		87	53 - 141
gamma-Chlordane	25.0	20.81		ug/Kg		83	46 - 156
Heptachlor	25.0	20.58		ug/Kg		82	52 - 144
Heptachlor epoxide	25.0	21.13		ug/Kg		85	54 - 141
Methoxychlor	25.0	12.55	p	ug/Kg		50	47 - 148

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

Lab Sample ID: LCS 570-233622/2-A
Matrix: Solid
Analysis Batch: 233627

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233622

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	96		37 - 151
Tetrachloro-m-xylene	96		38 - 148

Lab Sample ID: LCSD 570-233622/3-A
Matrix: Solid
Analysis Batch: 233627

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233622

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			25.0	23.09		ug/Kg		92	54 - 154	2	30
4,4'-DDE			25.0	22.92		ug/Kg		92	51 - 149	2	28
4,4'-DDT			25.0	21.91		ug/Kg		88	39 - 152	4	31
Aldrin			25.0	20.70		ug/Kg		83	52 - 138	4	30
alpha-BHC			25.0	22.69		ug/Kg		91	51 - 140	2	29
alpha-Chlordane			25.0	21.13		ug/Kg		85	53 - 141	3	28
beta-BHC			25.0	22.13		ug/Kg		89	53 - 141	2	29
delta-BHC			25.0	23.79		ug/Kg		95	20 - 132	2	40
Dieldrin			25.0	21.62		ug/Kg		86	52 - 144	4	28
Endosulfan I			25.0	20.74		ug/Kg		83	49 - 139	4	28
Endosulfan II			25.0	21.51		ug/Kg		86	51 - 150	3	29
Endosulfan sulfate			25.0	21.48		ug/Kg		86	45 - 139	2	30
Endrin			25.0	19.33		ug/Kg		77	53 - 151	14	29
Endrin aldehyde			25.0	20.88		ug/Kg		84	31 - 146	2	40
gamma-BHC			25.0	22.24		ug/Kg		89	53 - 141	2	29
gamma-Chlordane			25.0	21.41		ug/Kg		86	46 - 156	3	39
Heptachlor			25.0	21.11		ug/Kg		84	52 - 144	3	29
Heptachlor epoxide			25.0	21.74		ug/Kg		87	54 - 141	3	29
Methoxychlor			25.0	12.91	p	ug/Kg		52	47 - 148	3	29

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	99		37 - 151
Tetrachloro-m-xylene	98		38 - 148

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 570-233724/1-A
Matrix: Solid
Analysis Batch: 233928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		50	39	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1221	ND		50	39	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1232	ND		50	39	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1242	ND		50	39	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1248	ND		50	39	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1254	ND		50	25	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1260	ND		50	25	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1262	ND		50	25	ug/Kg		05/12/22 11:53	05/13/22 21:52	1
Aroclor-1268	ND		50	25	ug/Kg		05/12/22 11:53	05/13/22 21:52	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 570-233724/1-A
Matrix: Solid
Analysis Batch: 233928

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233724

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Polychlorinated biphenyls, Total	ND		50	39	ug/Kg		05/12/22 11:53	05/13/22 21:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*100*		*20 - 155*	*05/12/22 11:53*	*05/13/22 21:52*	*1*
Tetrachloro-m-xylene (Surr)	*83*		*25 - 126*	*05/12/22 11:53*	*05/13/22 21:52*	*1*

Lab Sample ID: LCS 570-233724/2-A
Matrix: Solid
Analysis Batch: 233928

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233724

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Aroclor-1016			100	87.73		ug/Kg		88	50 - 142		
Aroclor-1260			100	92.70		ug/Kg		93	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*88*		*20 - 155*
Tetrachloro-m-xylene (Surr)	*74*		*25 - 126*

Lab Sample ID: LCSD 570-233724/3-A
Matrix: Solid
Analysis Batch: 233928

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233724

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor-1016			100	98.24		ug/Kg		98	50 - 142	11	30
Aroclor-1260			100	102.7		ug/Kg		103	50 - 150	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*104*		*20 - 155*
Tetrachloro-m-xylene (Surr)	*86*		*25 - 126*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 570-234174/1-A
Matrix: Solid
Analysis Batch: 235864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234174

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10	3.7	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
2,4,5-TP (Silvex)	ND		10	7.5	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
2,4-D	ND		100	49	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
2,4-DB	ND		100	100	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
Dalapon	ND		250	72	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
Dicamba	ND		10	4.7	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
Dichlorprop	ND		100	49	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
Dinoseb	ND		100	59	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
MCPA	ND		10000	4900	ug/Kg		05/17/22 15:21	05/20/22 16:41	1
MCPP	ND		10000	6600	ug/Kg		05/17/22 15:21	05/20/22 16:41	1

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

Lab Sample ID: MB 570-234174/1-A
Matrix: Solid
Analysis Batch: 235864

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234174

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	46		20 - 163	05/17/22 15:21	05/20/22 16:41	1

Lab Sample ID: LCS 570-234174/2-A
Matrix: Solid
Analysis Batch: 235557

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234174

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	40.0	55.28	*+	ug/Kg		138	36 - 125
2,4-D	400	215.7	p	ug/Kg		54	10 - 177
2,4-DB	400	925.9	*+	ug/Kg		231	35 - 180

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-Dichlorophenylacetic acid	37		20 - 163

Lab Sample ID: LCSD 570-234174/3-A
Matrix: Solid
Analysis Batch: 235557

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 234174

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	40.0	56.31	*+	ug/Kg		141	36 - 125	2	35
2,4-D	400	319.1		ug/Kg		80	10 - 177	39	40
2,4-DB	400	579.2	*1	ug/Kg		145	35 - 180	46	40

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	72		20 - 163

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-233806/1-A
Matrix: Solid
Analysis Batch: 235048

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233806

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		2.99	1.22	mg/Kg		05/12/22 15:27	05/18/22 04:45	5

Lab Sample ID: LCS 570-233806/2-A ^5
Matrix: Solid
Analysis Batch: 235048

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233806

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	49.8	43.58		mg/Kg		88	80 - 120

Lab Sample ID: LCSD 570-233806/3-A ^5
Matrix: Solid
Analysis Batch: 235048

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233806

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	50.5	42.69		mg/Kg		85	80 - 120	2	20

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

Lab Sample ID: MB 570-236024/1-A ^5
Matrix: Solid
Analysis Batch: 236320

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 236024

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10.1	8.74	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Arsenic	ND		3.02	1.40	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Barium	ND		3.02	0.143	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Beryllium	ND		0.503	0.0693	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Cadmium	ND		0.503	0.0834	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Chromium	ND		1.01	0.187	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Cobalt	ND		1.01	0.207	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Copper	ND		2.01	0.963	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Lead	ND		2.01	0.411	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Molybdenum	ND		2.01	0.190	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Nickel	ND		2.01	0.364	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Silver	ND		1.51	0.145	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Thallium	ND		10.1	7.09	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Vanadium	ND		1.01	0.169	mg/Kg		05/21/22 12:45	05/23/22 13:44	5
Zinc	ND		5.03	1.16	mg/Kg		05/21/22 12:45	05/23/22 13:44	5

Lab Sample ID: LCS 570-236024/2-A ^5
Matrix: Solid
Analysis Batch: 236320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 236024

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	49.0	57.29		mg/Kg		117	80 - 120
Arsenic	49.0	45.80		mg/Kg		93	80 - 120
Barium	49.0	49.34		mg/Kg		101	80 - 120
Beryllium	49.0	48.33		mg/Kg		99	80 - 120
Cadmium	49.0	46.29		mg/Kg		94	80 - 120
Chromium	49.0	49.83		mg/Kg		102	80 - 120
Cobalt	49.0	47.99		mg/Kg		98	80 - 120
Copper	49.0	49.25		mg/Kg		100	80 - 120
Lead	49.0	47.86		mg/Kg		98	80 - 120
Molybdenum	49.0	51.61		mg/Kg		105	80 - 120
Nickel	49.0	48.25		mg/Kg		98	80 - 120
Silver	24.5	24.68		mg/Kg		101	80 - 120
Thallium	49.0	47.67		mg/Kg		97	80 - 120
Vanadium	49.0	49.07		mg/Kg		100	80 - 120
Zinc	49.0	45.38		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 570-236024/3-A ^5
Matrix: Solid
Analysis Batch: 236320

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 236024

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	49.3	56.21		mg/Kg		114	80 - 120	2	20
Arsenic	49.3	46.55		mg/Kg		94	80 - 120	2	20
Barium	49.3	49.57		mg/Kg		101	80 - 120	0	20
Beryllium	49.3	48.63		mg/Kg		99	80 - 120	1	20
Cadmium	49.3	46.44		mg/Kg		94	80 - 120	0	20
Chromium	49.3	50.11		mg/Kg		102	80 - 120	1	20
Cobalt	49.3	48.24		mg/Kg		98	80 - 120	1	20

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

Lab Sample ID: LCSD 570-236024/3-A ^5
Matrix: Solid
Analysis Batch: 236320

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 236024

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Copper	49.3	49.54		mg/Kg		101	80 - 120	1	20
Lead	49.3	48.58		mg/Kg		99	80 - 120	2	20
Molybdenum	49.3	51.92		mg/Kg		105	80 - 120	1	20
Nickel	49.3	48.37		mg/Kg		98	80 - 120	0	20
Silver	24.6	24.79		mg/Kg		101	80 - 120	0	20
Thallium	49.3	47.80		mg/Kg		97	80 - 120	0	20
Vanadium	49.3	49.33		mg/Kg		100	80 - 120	1	20
Zinc	49.3	45.32		mg/Kg		92	80 - 120	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-233749/1-A
Matrix: Solid
Analysis Batch: 234080

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233749

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0135	mg/Kg		05/12/22 16:44	05/13/22 14:44	1

Lab Sample ID: LCS 570-233749/2-A
Matrix: Solid
Analysis Batch: 234080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 233749

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.385	0.4121		mg/Kg		107	85 - 121

Lab Sample ID: LCSD 570-233749/3-A
Matrix: Solid
Analysis Batch: 234080

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 233749

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.392	0.4219		mg/Kg		108	85 - 121	2	10

Method: 1664A - HEM and SGT-HEM

Lab Sample ID: MB 570-234061/1-A
Matrix: Solid
Analysis Batch: 234274

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 234061

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM: Oil and Grease	ND		50.0	30.2	mg/Kg		05/13/22 11:53	05/13/22 11:53	1
HEM-SGT: Oil and Grease	ND		50.0	13.9	mg/Kg		05/13/22 11:53	05/13/22 11:53	1

Lab Sample ID: LCS 570-234061/2-A
Matrix: Solid
Analysis Batch: 234274

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 234061

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
HEM: Oil and Grease	333	310.0		mg/Kg		93	78 - 114
HEM-SGT: Oil and Grease	167	153.3		mg/Kg		92	64 - 132

Method: 1664A - HEM and SGT-HEM (Continued)

Lab Sample ID: LCSD 570-234061/3-A
Matrix: Solid
Analysis Batch: 234274

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 234061

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM: Oil and Grease			333	323.3		mg/Kg		97	78 - 114	4	18
HEM-SGT: Oil and Grease			167	150.0		mg/Kg		90	64 - 132	2	34

Lab Sample ID: 570-95147-1 MS
Matrix: Solid
Analysis Batch: 234274

Client Sample ID: 202205050002
Prep Type: Total/NA
Prep Batch: 234061

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
HEM: Oil and Grease	53.1	H	332	381.9		mg/Kg		99	78 - 114		
HEM-SGT: Oil and Grease	29.9	J H	166	179.3		mg/Kg		90	64 - 132		

Lab Sample ID: 570-95147-1 MSD
Matrix: Solid
Analysis Batch: 234274

Client Sample ID: 202205050002
Prep Type: Total/NA
Prep Batch: 234061

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
HEM: Oil and Grease	53.1	H	332	374.9		mg/Kg		97	78 - 114	2	18
HEM-SGT: Oil and Grease	29.9	J H	166	175.8		mg/Kg		88	64 - 132	2	34

GC/MS VOA

Analysis Batch: 234588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8260B	234601
MB 570-234601/3-A	Method Blank	Total/NA	Solid	8260B	234601
LCS 570-234601/1-A	Lab Control Sample	Total/NA	Solid	8260B	234601
LCSD 570-234601/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	234601
570-95147-1 MS	202205050002	Total/NA	Solid	8260B	234601
570-95147-1 MSD	202205050002	Total/NA	Solid	8260B	234601

Prep Batch: 234601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	5030C	
MB 570-234601/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-234601/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-234601/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
570-95147-1 MS	202205050002	Total/NA	Solid	5030C	
570-95147-1 MSD	202205050002	Total/NA	Solid	5030C	

GC/MS Semi VOA

Prep Batch: 233796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3546	
MB 570-233796/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-233796/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-233796/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 235117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8270C	233796
MB 570-233796/1-A	Method Blank	Total/NA	Solid	8270C	233796
LCS 570-233796/2-A	Lab Control Sample	Total/NA	Solid	8270C	233796
LCSD 570-233796/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	233796

Prep Batch: 236468

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3546	
MB 570-236468/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-236468/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-236468/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 237091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8270C SIM	236468

Analysis Batch: 237436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-236468/1-A	Method Blank	Total/NA	Solid	8270C SIM	236468
LCS 570-236468/2-A	Lab Control Sample	Total/NA	Solid	8270C SIM	236468
LCSD 570-236468/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C SIM	236468

GC Semi VOA

Prep Batch: 233622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3546	
MB 570-233622/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-233622/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-233622/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 233627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-233622/1-A	Method Blank	Total/NA	Solid	8081A	233622
LCS 570-233622/2-A	Lab Control Sample	Total/NA	Solid	8081A	233622
LCSD 570-233622/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	233622

Prep Batch: 233724

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3546	
MB 570-233724/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-233724/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-233724/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 233769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3550C	
MB 570-233769/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-233769/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCS 570-233769/6-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-233769/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
LCSD 570-233769/7-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 233928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-233724/1-A	Method Blank	Total/NA	Solid	8082	233724
LCS 570-233724/2-A	Lab Control Sample	Total/NA	Solid	8082	233724
LCSD 570-233724/3-A	Lab Control Sample Dup	Total/NA	Solid	8082	233724

Analysis Batch: 234059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8015B	233769
MB 570-233769/1-A	Method Blank	Total/NA	Solid	8015B	233769
LCS 570-233769/2-A	Lab Control Sample	Total/NA	Solid	8015B	233769
LCS 570-233769/6-A	Lab Control Sample	Total/NA	Solid	8015B	233769
LCSD 570-233769/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	233769
LCSD 570-233769/7-A	Lab Control Sample Dup	Total/NA	Solid	8015B	233769

Prep Batch: 234174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8151A	
MB 570-234174/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 570-234174/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 570-234174/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

GC Semi VOA

Analysis Batch: 234290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8081A	233622

Analysis Batch: 234344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8082	233724

Analysis Batch: 235557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	8151A	234174
LCS 570-234174/2-A	Lab Control Sample	Total/NA	Solid	8151A	234174
LCSD 570-234174/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	234174

Analysis Batch: 235864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-234174/1-A	Method Blank	Total/NA	Solid	8151A	234174

Metals

Prep Batch: 233749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	7471A	
MB 570-233749/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-233749/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-233749/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	

Prep Batch: 233806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3050B	
MB 570-233806/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-233806/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-233806/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	3050B	

Analysis Batch: 234080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	7471A	233749
MB 570-233749/1-A	Method Blank	Total/NA	Solid	7471A	233749
LCS 570-233749/2-A	Lab Control Sample	Total/NA	Solid	7471A	233749
LCSD 570-233749/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	233749

Analysis Batch: 235048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	6010B	233806
MB 570-233806/1-A	Method Blank	Total/NA	Solid	6010B	233806
LCS 570-233806/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	233806
LCSD 570-233806/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	6010B	233806

Prep Batch: 236024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	3050B	
MB 570-236024/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 570-236024/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 236024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-236024/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	3050B	

Analysis Batch: 236320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	6010B	236024
MB 570-236024/1-A ^5	Method Blank	Total/NA	Solid	6010B	236024
LCS 570-236024/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	236024
LCSD 570-236024/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	6010B	236024

General Chemistry

Prep Batch: 234061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	1664A	
MB 570-234061/1-A	Method Blank	Total/NA	Solid	1664A	
LCS 570-234061/2-A	Lab Control Sample	Total/NA	Solid	1664A	
LCSD 570-234061/3-A	Lab Control Sample Dup	Total/NA	Solid	1664A	
570-95147-1 MS	202205050002	Total/NA	Solid	1664A	
570-95147-1 MSD	202205050002	Total/NA	Solid	1664A	

Analysis Batch: 234274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-95147-1	202205050002	Total/NA	Solid	1664A	234061
MB 570-234061/1-A	Method Blank	Total/NA	Solid	1664A	234061
LCS 570-234061/2-A	Lab Control Sample	Total/NA	Solid	1664A	234061
LCSD 570-234061/3-A	Lab Control Sample Dup	Total/NA	Solid	1664A	234061
570-95147-1 MS	202205050002	Total/NA	Solid	1664A	234061
570-95147-1 MSD	202205050002	Total/NA	Solid	1664A	234061

Lab Chronicle

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Client Sample ID: 202205050002

Date Collected: 04/12/22 11:50
Date Received: 05/06/22 10:15

Lab Sample ID: 570-95147-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.08 g	5 mL	234601	05/17/22 01:41	G6NI	ECL 4
Total/NA	Analysis	8260B		1	5 mL	5 mL	234588	05/17/22 03:10	N1A	ECL 4
	Instrument ID: GCMSLL									
Total/NA	Prep	3546			19.96 g	2 mL	233796	05/12/22 15:08	SP9M	ECL 4
Total/NA	Analysis	8270C		1			235117	05/18/22 15:30	N8CZ	ECL 4
	Instrument ID: GCMSTT									
Total/NA	Prep	3546			9.99 g	2 mL	236468	05/25/22 08:49	SP9M	ECL 4
Total/NA	Analysis	8270C SIM		1			237091	05/26/22 20:46	ULLI	ECL 4
	Instrument ID: GCMSAAA									
Total/NA	Prep	3550C			10.32 g	10 mL	233769	05/12/22 13:37	KG5J	ECL 4
Total/NA	Analysis	8015B		1			234059	05/14/22 03:26	A1W	ECL 4
	Instrument ID: GC47									
Total/NA	Prep	3546			20.06 g	10 mL	233622	05/12/22 15:30	SP9M	ECL 4
Total/NA	Analysis	8081A		1			234290	05/16/22 08:17	UHHN	ECL 4
	Instrument ID: GC52A									
Total/NA	Prep	3546			20.06 g	10 mL	233724	05/12/22 15:32	SP9M	ECL 4
Total/NA	Analysis	8082		1			234344	05/16/22 13:23	UHHN	ECL 4
	Instrument ID: GC81A									
Total/NA	Prep	8151A			50.27 g	5 mL	234174	05/17/22 15:21	J7WE	ECL 4
Total/NA	Analysis	8151A		1			235557	05/19/22 23:30	J7WE	ECL 4
	Instrument ID: GC41									
Total/NA	Prep	3050B			2.03 g	50 mL	236024	05/21/22 12:45		ECL 4
Total/NA	Analysis	6010B		5			236320	05/23/22 14:59	P1R	ECL 4
	Instrument ID: ICP10									
Total/NA	Prep	3050B			1.95 g	50 mL	233806	05/12/22 15:27	CS5Z	ECL 4
Total/NA	Analysis	6010B		5			235048	05/18/22 05:50	P1R	ECL 4
	Instrument ID: ICP11									
Total/NA	Prep	7471A			0.52 g	50 mL	233749	05/12/22 16:44	SR3N	ECL 4
Total/NA	Analysis	7471A		1			234080	05/13/22 15:19	VWJ7	ECL 4
	Instrument ID: HG8									
Total/NA	Prep	1664A			30.15 g	30 g	234061	05/13/22 11:53	USUL	ECL 4
Total/NA	Analysis	1664A		1			234274	05/13/22 11:53	L6IE	ECL 4
	Instrument ID: NOEQUIP									

Laboratory References:

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Laboratory: Eurofins Calscience

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
California	State	2944	09-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
1664A	1664A	Solid	HEM: Oil and Grease
1664A	1664A	Solid	HEM-SGT: Oil and Grease

Oregon	NELAP		CA300001	01-31-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082	3546	Solid	Polychlorinated biphenyls, Total

Method Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	ECL 4
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	ECL 4
8270C SIM	PAHs (GC/MS SIM)	SW846	ECL 4
8015B	Diesel Range Organics (DRO) (GC)	SW846	ECL 4
8081A	Organochlorine Pesticides (GC)	SW846	ECL 4
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	ECL 4
8151A	Herbicides (GC)	SW846	ECL 4
6010B	Metals (ICP)	SW846	ECL 4
7471A	Mercury (CVAA)	SW846	ECL 4
1664A	HEM and SGT-HEM	1664A	ECL 4
1664A	HEM and SGT-HEM (Solid)	1664A	ECL 4
3050B	Preparation, Metals	SW846	ECL 4
3546	Microwave Extraction	SW846	ECL 4
3550C	Ultrasonic Extraction	SW846	ECL 4
5030C	Purge and Trap	SW846	ECL 4
7471A	Preparation, Mercury	SW846	ECL 4
8151A	Extraction (Herbicides)	SW846	ECL 4

Protocol References:

1664A = EPA-821-98-002

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Eurofins Eaton Analytical
Project/Site: 1002300

Job ID: 570-95147-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-95147-1	202205050002	Solid	04/12/22 11:50	05/06/22 10:15

eurofins

Eaton Analytical

Ship To:
`Eurofins Calscience
2841 Dow Avenue

Tustin, CA 92780

Phone 714-895-5494 Fax. 714-894-7501

Folder #: 1002300
Report Due: 05/11/2022

Submittal Form

Date: 5/5/2022

*REPORTING REQUIRMENTS: *Do Not Combine Reports with any other samples submitted under different Folder Numbers!*
Report & Invoice must have the Folder# 1002300 Job # 1000014

Report all quality control data according to Method. Include dates analyzed. Date extracted (if extracted) and Method reference on the report.
Results must have Complete data & QC with Approval Signature.

Reports: Jackie Contreras Sub-Contracting Administrator
EMAIL TO: Eaton-MonroviaSubContract@eurofinset.com
Eurofins Eaton Analytical, LLC 750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016
Phone (626) 386-1165 Fax (626) 386-1122
Invoices to: Eurofins Eaton Analytical, LLC
Accounts Payable 2425 New Holland Pike, Lancaster, PA 17605

Provide in each Report the Specified StateCertification # and Exp Date for requested tests + matrix.

Samples from **CALIFORNIA**

Loc: 570
95147

Sample ID	Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID
202205050002	Site #1	04/12/22 1150	DW		JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

Method	Prep Method	Analysis Requested
EPA 6010	EPA 3050B	Chromium TTLC Subbed
EPA 6010	EPA 3050B	Arsenic TTLC Subbed
EPA 6010	EPA 3050B	Nickel TTLC Subbed
EPA 6010	EPA 3050B	Barium TTLC Subbed
EPA 6010	EPA 3050B	Antimony TTLC Subbed
EPA 6010	EPA 3050B	Cadmium TTLC Subbed
EPA 6010	EPA 3050B	Beryllium TTLC Subbed
EPA 6010	EPA 3050B	Cobalt TTLC Subbed
EPA 6010	EPA 3050B	Copper TTLC Subbed
EPA 6010	EPA 3050B	Lead TTLC Subbed
EPA 6010	EPA 3050B	Molybdenum TTLC Subbed
EPA 6010	EPA 3050B	Selenium TTLC Subbed
EPA 6010	EPA 3050B	Silver TTLC Subbed
EPA 6010	EPA 3050B	Thallium TTLC Subbed
EPA 6010	EPA 3050B	Vanadium TTLC Subbed
EPA 6010	EPA 3050B	Zinc TTLC Subbed
EPA 7471A	EPA 7471A	Mercury TTLC Subbed

570-95147 Chain of Custody

Relinquished by: Sample Control Date 5/5/22 Time 11:16

Received by: Date 5/6/22 Time 10:15

Relinquished by: Sample Control Date Time

Received by: Date Time

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

1.2/1.9 FR-96

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www EurofinsUS com/Eaton

Sample ID	Client Sample ID for reference onl	Sample Date & Time	Matrix	Clip Code	PWSID
202205050002	Site #1	04/12/22 1150	DW		JLS

Sample type:	Sample Event:	Facility ID:	Sample Point ID:	Static ID:

Method	Prep Method	Analysis Requested
EPA 8081A	EPA 3545	5157_8081 Standard List
EPA 8082	EPA 3545	8082
EPA 8151A	EPA 8151A	576 - Chlorinated Herbicides
EPA 8260B	EPA 5030C	Volatile Organic Compounds by EPA 8260B
EPA 8270C		8270C PAH SIM
EPA 8270C	EPA 3510C	8270
EPA 1664 HEM-SGT		Oil and Grease by 1664 HEM SGT
SW-846 9071B		Oil and Grease
EPA 8015M	EPA 3550B	6231 Motor Oil and 6232 Diesel

Relinquished by: Sample Control Date 5-5-22 Time 1116

Received by: 62 Date 5/6/22 Time 10 15

Relinquished by: Sample Control Date _____ Time _____

Received by: _____ Date _____ Time _____

NOTIFICATION REQUIRED IF RECEIVED OUTSIDE OF 0-6 CELSIUS

An Acknowledgement of Receipt is requested to attn: Jackie Contreras

750 Royal Oaks Drive, Suite 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (866) 988-3757 www EurofinsUS com/Eaton


ORIGIN ID:WHPA (626) 386-1100
MANUEL A. VASQUEZ
EUROFINS EATON ANALYTICAL
750 ROYAL OAKS DR SUITE 100
MONROVIA, CA 91016
UNITED STATES US
SHIP DATE: 05MAY22
ACTWGT: 35.00 LB
CAD: 0894108/CAFE3511
DIMS: 15x12x14 IN
BILL SENDER
TO
EUROFINS CALSCIENCE
2841 DOW AVE
SUITE 100
TUSTIN CA 92780
PO CB
DEPT: SUBOUTS/LOG-IN
D
5102
05.06
5
10:30
RT 678
ST 5.2
K
SS
E
TRK# 0201 5717 5703 5102
FRI - 06 MAY 10:30A
PRIORITY OVERNIGHT
92 DTHA
92780
CA-US SNA
Part # 156697-434 RRDB2 EXP 02/23
570-95147 Waybill

Login Sample Receipt Checklist

Client: Eurofins Eaton Analytical

Job Number: 570-95147-1

Login Number: 95147
List Number: 1
Creator: Luu, Sheila

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	