Appendix D

Restoration Material Specifications

IKO PERFORMANCE

NORDIC™ & DYNASTY® SHINGLES

IKO.COM

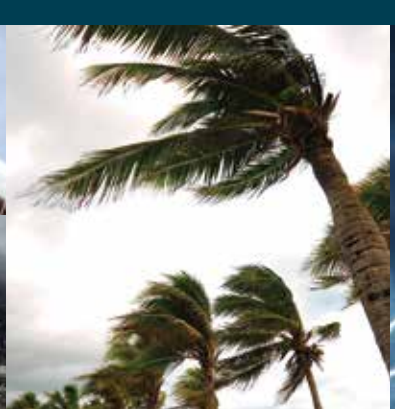


IKO PERFORMANCE SHINGLES WITH ARMOURZONE











BEAUTY you can see. QUALITY you can feel. PERFORMANCE you can trust.





As time goes by, you and yours will celebrate life's special occasions. You'll weather its many storms too. But when the wind whistles and blows; when the rain pours down and the snow piles up; when thunder and lightning rage outside, you'll find comfort in knowing you've provided your family safe shelter.

Shelter is among our most basic of human needs. Climate experts* have confirmed that severe weather events such as straight-line winds, hurricanes, tornadoes, hail and thunderstorms occur more often, and in more places than ever before.

Your roof is your home's first line of defense against the ravages of Mother Nature, as well as normal, everyday temperature extremes, high winds, rain, snow and even flying debris. When it's time to replace your roof, don't take anything for granted. You want the peace of mind that comes from knowing your family is well-protected, safe and comfortable. So, don't settle for less than IKO Nordic or Dynasty Performance class shingles.

At IKO, four generations of family owned-and-operated experience go into everything we make. We go to extremes to ensure our roofing products will perform and protect your home and family for years to come. Because at IKO, it's not just roofing. It's roofing elevated.

* **The following studies and sources attest to the rise of severe weather** • A 2013 climate analysis from Stanford University forecasts global warming to drive an increase in severe thunderstorm risk in the U.S. • The 2018 3M Economic Forecast for the U.S. Asphalt Roofing Study with data from the NOAA/National Weather Service Storm Prediction Center, reports the 18-year average for high-winded storm events is 24,751. • The National Geographic website cites an increase in all global weather events since 1980.



Nordic™

Quite possibly THE BEST laminate asphalt shingle that money can buy.

When it comes to protecting your family, nothing but the best will do. We get it. IKO Nordic Performance shingles provide the ultimate in high-wind and hail protection, for your total peace of mind. No other laminated asphalt shingle offers the combination of heavy asphalt coverage, high-wind uplift prevention and highly effective impact resistance that Nordic does.

As weather patterns become more unpredictable, Nordic presents your best asphalt shingle option, no matter where you live. To achieve Nordic's superior weather resistance, we apply our special polymer-modified asphalt coating to an ultra-durable fiberglass mat. This advanced polymer coating is exceptionally pliable compared to regular-duty shingle asphalt and contributes to giving Nordic exceptional strength and resilience, high-wind resistance and added flexibility for application in cold temperatures.

Nordic shingles also outperform because they boast IKO's ArmourZone®— an enhanced nailing area that features a specially designed, tough reinforcing strip that offers incredible nail-holding power. Nordic shingles come with a 130 mph (210 km/h) limited wind warranty[1]. Plus, IKO's Fastlock® sealant helps resist wind uplift and potential water infiltration.

To top it all off, Nordic shingles come in gorgeous hues created by combining our advanced high-definition color-blending technology with deep shadow bands for added dimension. For the ultimate in form and function, you simply can't make a better, smarter choice: IKO Nordic.

The **"Power of Polymer"** means that this coating acts like a shock absorber, qualifying Nordic shingles for a Class 4 impact resistance rating[4]*. That's important because Class 4 is the highest such rating you can get for residential asphalt shingles.

**This is not a guarantee of impact resistance against hail. Damage from hail is not covered under the limited warranty. See full details.[4]*





Dynasty®

Mother Nature can howl all she wants.

Lesser shingles may rip and tear when Mother Nature starts screaming, but IKO Dynasty holds its ground. Our oversized Dynasty shingles feature IKO's ArmourZone for incredible nail-holding power and they carry a 130 mph (210 km/h) limited wind warranty.

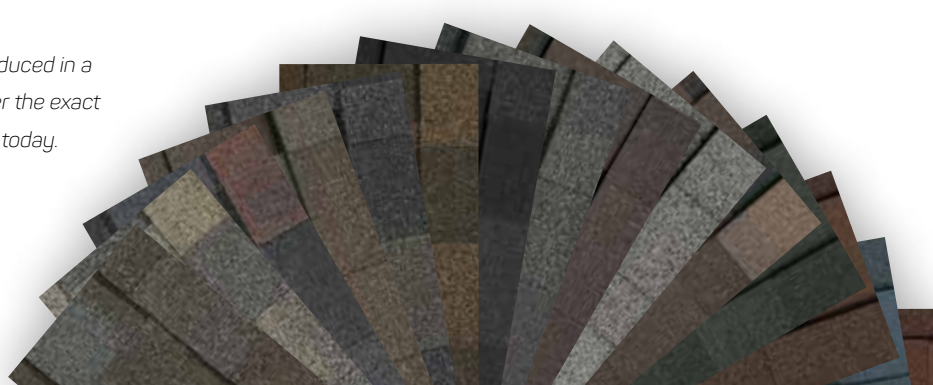
Dynasty Performance shingles feature IKO's 1 1/4-inch ArmourZone nailing area that's made with a tough reinforcing woven band for incredible nail-holding power. In high winds, it helps shingles resist nail pull-through like nothing else.

At the core of every Dynasty shingle is a durable fiberglass mat. This, along with its thick asphalt coating, makes it one of the heaviest shingles in its class. Dynasty's weight helps the shingles lie flat and stay put on your roof, thwarting the wind from prying them up. In addition, we apply IKO's proprietary Fastlock sealant along the bottom edge. When this special adhesive is activated by the radiant heat of the sun, it creates a super-strong bond to further defeat the wind.

To protect its asphalt and keep it performing its best, Dynasty is coated with colored granules. IKO's exclusive, advanced color-blending technology enables you to choose from high-definition hues to complement your home's style, enhance curb appeal and be the envy of the neighborhood.

BEAUTIFUL HI-DEF COLOR BLENDS

IKO's Dynasty Performance shingles are produced in a wide array of unique color blends. To discover the exact color availability in your region, visit ***IKO.com*** *today.*



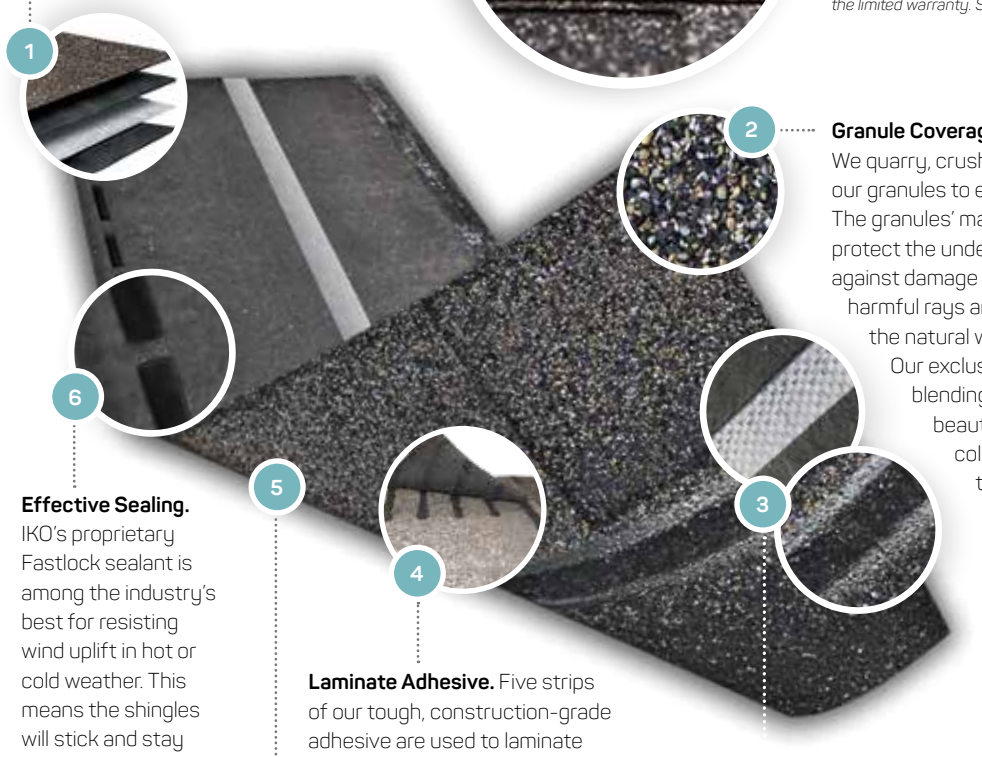
PERFORMANCE ELEVATED. IKO Performance-class asphalt shingles are industry heavyweights because the more we put into them, the more you'll get out of them. Here's what elevates the performance of Nordic and Dynasty shingles.

Performance Begins at the Core.
IKO Performance Shingles offer superior protection against wind uplift and water infiltration. Performance-class shingles are among the industry's heaviest thanks to a durable fiberglass mat covered with a thick coat of asphalt.



IKO Nordic Shingles Feature a Class 4 Impact Resistance Rating.[4]
IKO Nordic's polymer-modified asphalt coating acts like a shock absorber, qualifying the shingle for a Class 4 impact resistance rating.[4*]

**This is not a guarantee of impact resistance against hail. Damage from hail is not covered under the limited warranty. See full details.[4]*



Granule Coverage and Adhesion.
We quarry, crush and colorize our granules to exact specifications. The granules' main purposes are to protect the underlying asphalt against damage from the sun's harmful rays and to help inhibit the natural weathering process. Our exclusive, advanced color-blending technology creates beautiful, high-definition color blends you'll love to see on your home.

Effective Sealing.
IKO's proprietary Fastlock sealant is among the industry's best for resisting wind uplift in hot or cold weather. This means the shingles will stick and stay stuck where they're laid, for effective protection against shingle blow-off which can lead to water infiltration.

Laminate Adhesive. Five strips of our tough, construction-grade adhesive are used to laminate the shim to the tooth.

Built-in Algae Resistance. Colorfast algae-resistant granules help inhibit the growth of blue-green algae, which can cause unsightly black streaks, stains or discoloration.

Nail-Holding Power. Our Performance shingles are reinforced with IKO's "ArmourZone." The 1 1/4-inch wide nailing surface for correct nail placement, with a tear-resistant, woven band on the back, provides even more fastening strength over a wider surface. Nails applied in this area are optimally positioned to help resist nail pull-through and shingle blow-off, even in high-wind conditions.

THE IKO ADVANTAGE[2,3]

Limited Warranty[1]	Limited Lifetime	Length	40 7/8 in (1,038 mm)
Iron Clad Protection[1]	15 Years	Width	13 3/4 in (349 mm)
Limited Wind Warranty[1]	130 mph (210 km/h)	Exposure	5 7/8 in (149 mm)
Blue-Green Algae Resistant[1]	Yes	Coverage per Bundle	33 1/3 ft² (3.1 m²)

ASTM D3462, ASTM D3018, ASTM D3161 – Class F, ASTM D7158 – Class H, ASTM E108/UL 790 – Class A, FM 4473 – Class 4[4] (Nordic only)

NOTE: Products with Miami Dade NOA, FBC product approval and Texas Department of Insurance listings are available. Please contact IKO for details. [1]See Limited Warranty at IKO.com for complete terms, conditions, restrictions and application requirements. Shingles must be applied in accordance with application instructions and local building code requirements. [2]All values shown are approximate. [3]Products are developed with reference to these standards. [4]This impact rating is solely for the purpose of enabling residential property owners to obtain a reduction in their residential insurance premium, if available. It is not to be construed as any type of express or implied warranty or guarantee of the impact performance of this shingle by the manufacturer, supplier or installer. For further detail concerning the FM 4473 standards, visit the FM Approvals website.

Note: *3 bundles = 1 full square = 100 sq ft coverage*

Extreme BEAUTY you can see.

You'll love how IKO Nordic and Dynasty Performance laminated shingles can enhance the appearance of your home.



N D

DRIFTSHAKE

N D

BROWNSTONE

An array of eye-catching, high-definition color blends are offered to complement any style of home. Deep shadow bands provide breathtaking contrast, while highlights punctuate the pattern. Your biggest challenge? Narrowing your choice down to just one favorite.







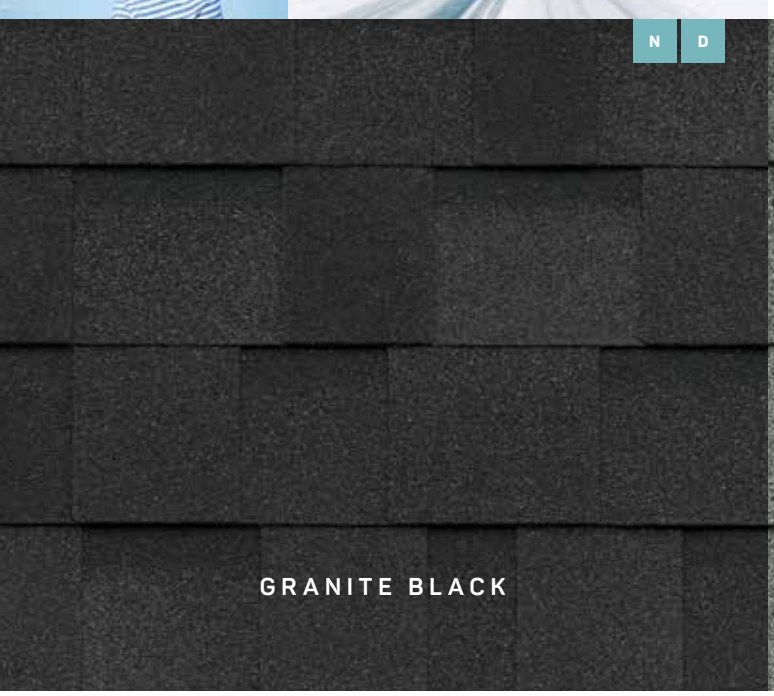
CORNERSTONE WWD
Natural, relaxed, stately, welcoming.
PERFECT PAIRINGS: Stone, wood, brick, masonry, siding (especially cream, beige or grey).

DRIFTSHAKE
Warmly casual, relaxed, breezy.
PERFECT PAIRINGS: Stone, logs, brick, wood, siding (especially brown, cream or grey).

BROWNSTONE
Rustic charm, sophisticated urban chic.
PERFECT PAIRINGS: Stone, brick, wood, siding (especially light, medium or dark brown, cream or grey).

GRANITE BLACK
Formal, classic, urban chic, traditional, elegant.
PERFECT PAIRINGS: Stone, brick, masonry, siding (especially red, white or grey).

FROSTONE GREY
Clean, contemporary, upscale, unexpected.
PERFECT PAIRINGS: Natural stone, grey masonry, grey or white siding.



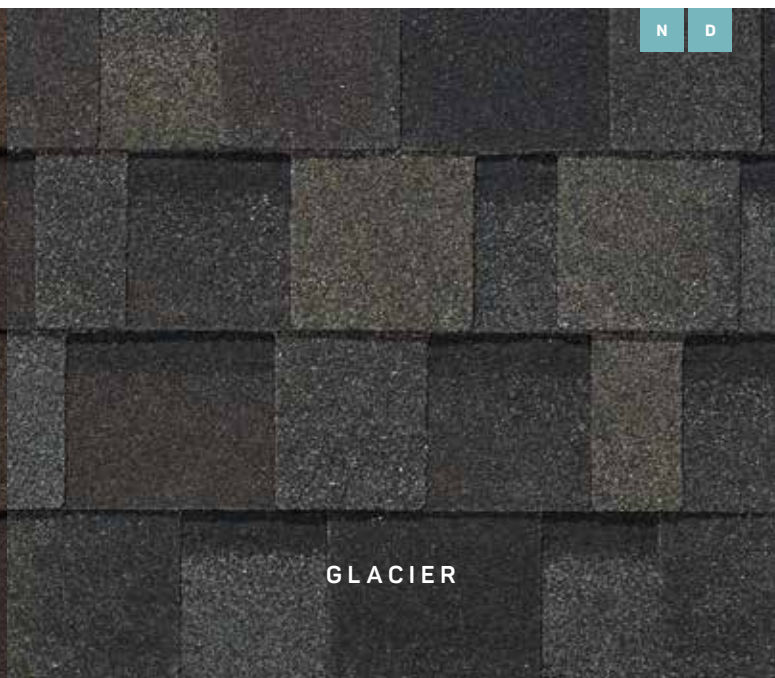


N ***Nordic shingles*** *are available in color blends marked with this symbol.*

D ***Dynasty shingles*** *are available in color blends marked with this symbol.*

Do you want your home to stand out dramatically or blend in harmoniously? Either way, you're sure to boost your home's curb appeal and potentially its resale value with our high-quality Performance shingles.





SHADOW BROWN
Transitional shades and earthy tones. Classic or contemporary elegance.
PERFECT PAIRINGS: Stone, wood, masonry, brick, siding (especially brown, grey or cream).

GLACIER
Stately, formal, elegant, traditional.
PERFECT PAIRINGS: Stone, brick, masonry, siding (especially white, dove-grey or midnight-blue).

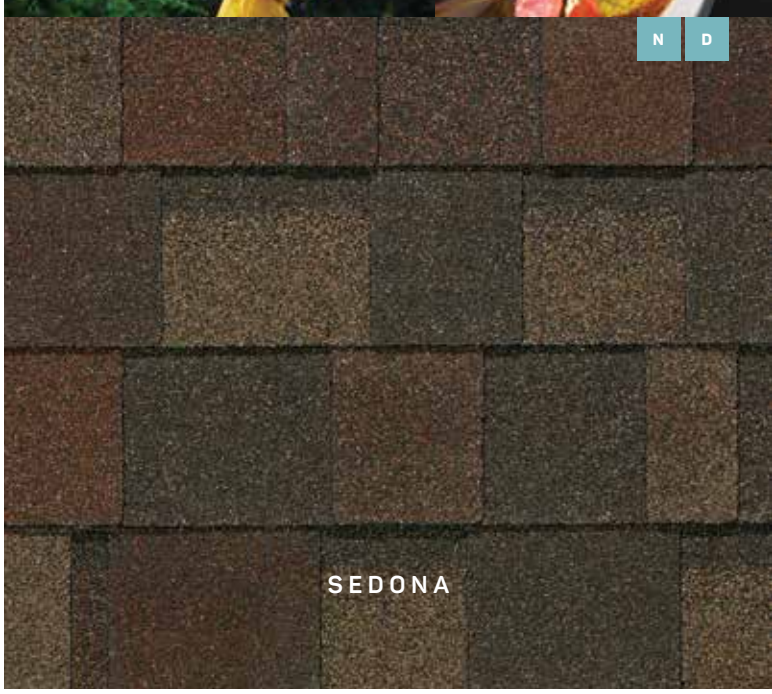
SEDONA
Warm, inviting, expansive, dramatic, yet casual, too.
PERFECT PAIRINGS: Logs, wood siding, brick (especially red).

CASTLE GREY
Formal, traditional, sophisticated, elegant, impressive.
PERFECT PAIRINGS: Stone, wood, brick, siding (especially white or various pastels).

PACIFIC RIM
Dramatic, adventurous, bold, daring.
PERFECT PAIRINGS: Stone, wood, brick, (especially red or grey).



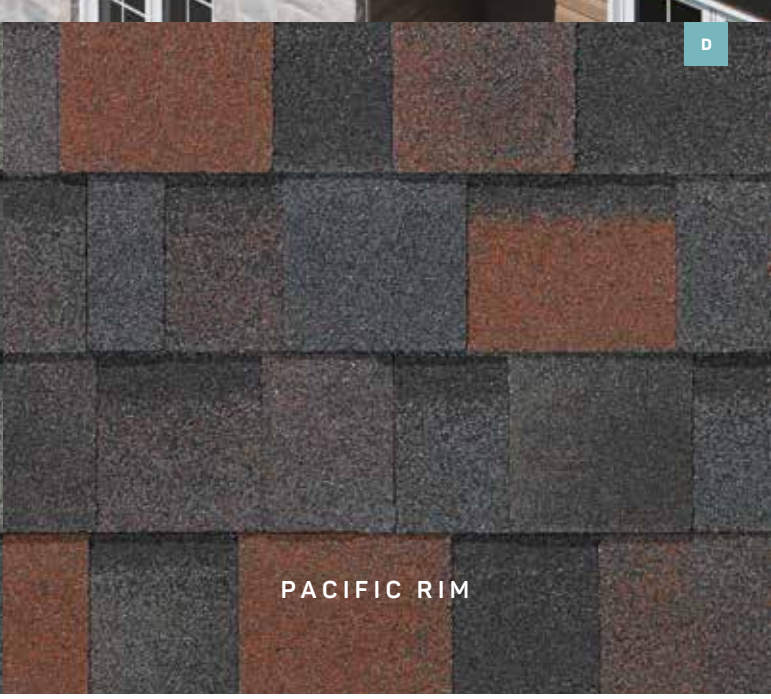




Our color blends are all high-definition, with deep shadow bands and color gradations that combine to create texture and visual appeal. Don't be surprised when people ask what kind of shingles are on your home.







The perfect finishing touch is with IKO ridge cap shingles that complement the high-definition color blends of IKO Dynasty and Nordic Performance shingles.

APPALACHIAN
Casual, informal, relaxed, yet understated.
PERFECT PAIRINGS: Stone, wood, brick, siding (especially white, light to dark grey, medium to dark blue).



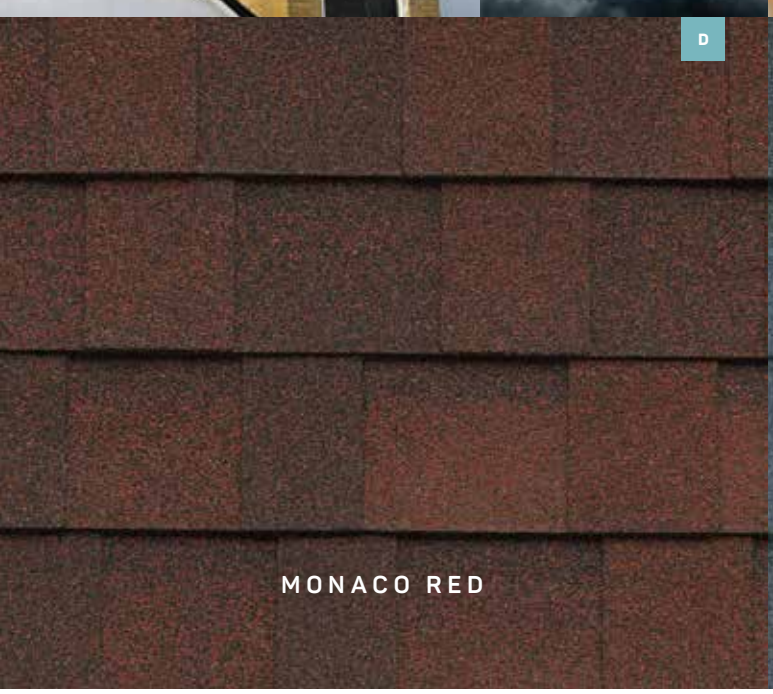














BISCAYNE
Laid-back, welcoming, carefree.
PERFECT PAIRINGS: Stone, wood, brick, siding (especially white or various pastels).

EMERALD GREEN
Earthy, natural, soothing.
PERFECT PAIRINGS: Log, wood or earth-tone composite siding, brick (especially red).





Can't decide on a shingle color? IKO RoofViewer® to the rescue!

Our exclusive interactive shingle selector software tool lets you mix 'n' match our shingles based on home style, color of siding and other accessories. Or upload a photo of your actual home. Download at **IKO.COM** or get our free app at Google Play or iTunes.

GET IT ON Google play Download on the App Store

MONACO RED
Bold, dramatic, eye-catching.
PERFECT PAIRINGS: White, grey or beige stone siding or brick.

ATLANTIC BLUE[5]
Enduring, daring, different.
PERFECT PAIRINGS: White or grey siding, stone or brick.

IMPORTANT! *To ensure complete satisfaction, please view several full-size shingles and an actual roof installation prior to final color selection as the shingle swatches and photography shown online, in our brochures and in our app may not accurately reflect shingle color and do not fully represent the entire color blend range, nor the impact of sunlight.*
[5]Blue granules may fade after extensive exposure to the sun's ultraviolet rays.

PRO4 INTEGRATED ROOFING ACCESSORIES

Shingles are your home's first line of defense, but they protect, perform and look their best installed with the recommended IKO PRO4 Integrated Roofing Accessories shown below.



DECK PROTECTION	SYNTHETIC UNDERLAYMENT	ROOF STARTERS	CAPPING SHINGLES



1a 1b 1c

IKO GoldSeam™ Roof Sealing Tape

1a. Apply where the fascia and eaves meet.

1b. Apply over seams when sealing the deck using synthetic underlayment.

ArmourGard™ Ice & Water

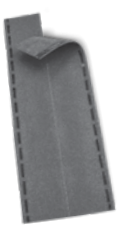
1c. Apply under shingled roofs to prevent water infiltration due to ice dams and wind-driven rain.



2

RoofGard-Cool Grey™

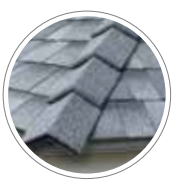
It's lighter and easier to handle, making it faster to install. The synthetic, nonbreathable material provides a superior slip-resistant surface. It's easy to install around vents, dormers, and other roof structures. And since it's grey instead of black, it absorbs less of the sun's radiant heat.



3

Leading Edge Plus™ or EdgeSeal™

Apply starter shingles with IKO's own high-strength thermally activated sealant or use the double-sided starter roll at eaves and rakes to help ensure wind resistance at that critical first course of shingles.



4

UltraHP® / UltraHP® IR[6,7]

Our specially constructed ridge cap shingles are designed to provide a high-quality alternative to using cut-up roof shingles to protect this important area. The "HP" stands for "High Profile," which means that they're also designed to add dimension, depth and texture to your roofline and rakes.

IKO | PERFORMANCE NORDIC™ & DYNASTY® SHINGLES

The information in this literature is subject to change without notice. We assume no responsibility for errors that may appear in this literature. [6]IKO UltraHP IR capping shingles have a Class 4 impact resistance rating tested against UL 2218, which IKO is pleased to present for the sole purpose of enabling homeowners using these shingles in conjunction with Class 4 impact resistance rated shingles to obtain a discount on their home insurance premiums, if available in their area. This rating is not to be construed as any type of express or implied warranty or guarantee of the impact performance of this shingle by the manufacturer, supplier or installer. [7]Specifically recommended for IKO Nordic shingles.

To find out more about Dynasty and Nordic Performance shingles or additional IKO products, please talk to an IKO sales representative or a professional roofing contractor, or contact IKO directly.

United States 1-888-IKO-ROOF (1-888-456-7663) | Canada 1-855-IKO-ROOF (1-855-456-7663)

Visit us online at: **IKO.COM.**

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108.50

PrimeRx®

Interior-Exterior Acrylic Peel Bonding Primer

B51T00600 US, B51TQ8600 Canada

CHARACTERISTICS

PrimeRx Peel Bonding Primer is a high build, interior/exterior, waterborne, coating designed to improve the adhesion of topcoats to various surfaces.

Dependable Bonding — Formulated to bond tightly, making it ideal for application to marginally prepared, alligatored or peeling siding and trim.

Smoother Finish — Compared to applying a traditional primer over less-than-perfect surfaces, PrimeRx Peel Bonding Primer's filling characteristics result in a more even finish after topcoating.

Saves Time — Less sanding and scraping of old paint. **PrimeRx Peel Bonding Primer** lets contractors finish the job in much less time without sacrificing good adhesion and appearance.

- Fast drying
- Penetrating
- Use on smooth or textured surfaces
- Stays flexible
- Can be applied down to 35°F

Color: Clear
(Applies milky white but dries clear)

Coverage: 200-250 sq.ft.per gallon @ 8.0 mils wet; 3.5 mils dry

Can be applied up to:

40 sq. ft. per gallon; 40 mils wet; 18 mils dry

Tinting: Requires ColorCast Ecotoner for tinting.

If desired, up to 4 oz per gallon of ColorCast Ecotoner® can be used. Check color before use

Finish: Flat

Drying Time, @ 50% RH @ 8 mils wet:

Drying and recoat times are temperature, humidity, and film thickness dependent.

	@35-45°F	@45°F+
Touch	6 hours	4 hours
Recoat: with water based topcoats	24 hours	4 hours
Recoat: with solvent based topcoats	24-48 hours	24 hours

White B51T00600

V.O.C. (less exempt solvents):
less than 50 grams per litre; .42 lbs. per gallon
As per 40 CFR 59.406

Volume Solids: 44 ± 2%
Weight Solids: 58 ± 2%
Weight per Gallon: 10.86 lbs
Flash Point: N.A.
Vehicle Type: Acrylic
Shelf Life: 36 months unopened

COMPLIANCE

As of 04/21/2020, Complies with:

OTC	Yes
OTC Phase II	Yes
SCAQMD	Yes
CARB	Yes
CARB SCM 2007	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	No
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	No
MIR-Manufacturer Inventory	No
MPI®	No

APPLICATION

No reduction necessary.

Apply at temperatures above 35°F.

Brush:
Use a nylon-polyester brush

Roller:
Use a 1/4-1/2 inch nap synthetic cover,

For specific brushes and rollers, please refer to our Brush and Roller Guide on sherwin-williams.com

Spray—Airless:

Pressure	2000 p.s.i.
Tip	.015-.021 inch

APPLICATION TIPS

When spot priming on some surfaces, a non-uniform appearance of the final coat may result, due to differences in holdout between primed and unprimed areas. To avoid this, prime the entire surface rather than spot priming.

For optimal performance, this primer must be topcoated with a latex, alkyd/oil, water based epoxy, or solvent based epoxy coating on architectural applications.

For exterior exposure, this primer must be topcoated within 14 days with architectural latex or oil finishes.

For better performance when priming an entire house, use Exterior Latex or Oil-Based Primers.

Back-brushing or back-rolling can improve the overall performance of the primer when spraying

SPECIFICATIONS

Use on:

Interior and exterior surfaces, Masonry, Wood, Horizontal Wood Decks, Drywall, Plywood, T1-11 Siding, Previously Painted Surfaces.

Provides good adhesion over a variety of properly prepared miscellaneous substrates like aluminum, galvanized metal, and PVC.

PrimeRx Peel Bonding Primer is not designed to penetrate through old paint and reattach loose or peeling paint. It will not repair any substrate. Any deteriorated or damaged wood, masonry, or other substrate must be repaired first.

When applied to wood decks, PrimeRx must be topcoated with either SuperDeck Solid Stain or SuperDeck Deck & Dock.

Always test a small area first for adhesion and compatibility with the topcoat.

continued on back

PrimeRx®

Interior-Exterior Acrylic Peel Bonding Primer

SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (**NIOSH** approved) and proper containment and cleanup. For more information, call the National Lead Information Center at **1-800-424-LEAD** (in US) or contact your local health authority.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing loose, peeled or checked paint must be scraped and sanded to a sound surface. Feather the rough edges from peeling paint to improve the final appearance. For use over higher sheen enamel type coatings sand surface before using.

Always test a small area first for adhesion and compatibility with the topcoat. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Caulking - Gaps between walls, ceilings, crown moldings, and other interior trim can be filled with the appropriate caulk after priming the surface.

SURFACE PREPARATION

Mildew - Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

CAUTIONS

Non-photochemically reactive.

Protect from freezing.

Not for use on garage floors, driveways, or automobile traffic areas.

Before using, carefully read **CAUTIONS on label**

Use only with adequate ventilation. To avoid overexposure, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, increase fresh air, or wear respiratory protection (**NIOSH** approved) or leave the area. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage. **FIRST AID:** In case of eye contact, flush thoroughly with large amounts of water. Get medical attention if irritation persists. If swallowed, call Poison Control Center, hospital emergency room, or physician immediately. **WARNING:** This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. **DO NOT TAKE INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.**

HOTW 04/20/2020 B51T00600 20 48
FRC, SP

CLEANUP INFORMATION

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative or visit www.paintdocs.com to obtain the most current version of the PDS and/or an SDS.

SAFETY DATA SHEET

B51T600

Section 1. Identification

Product name : PrimeRx™ Peel Bonding Primer (Interior/Exterior Latex)
Clear

Product code : B51T600

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Paint or paint related material.

Manufacturer : THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number of the company : US / Canada: (216) 566-2917
Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Product Information Telephone Number : US / Canada: Not Available
Mexico: Not Available

Regulatory Information Telephone Number : US / Canada: (216) 566-2902
Mexico: Not Available

Transportation Emergency Telephone Number : US / Canada: (800) 424-9300
Mexico: SETIQ 01-800-00-214-00 / (52) 55-5559-1588 24 hours / 365 days a year

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.

Hazard statements : No known significant effects or critical hazards.

Precautionary statements

General : Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention : Not applicable.

Response : Not applicable.

Storage : Not applicable.

Disposal : Not applicable.

Supplemental label elements WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	Exposure limits
None.	

Occupational exposure limits (Canada)

Ingredient name	Exposure limits
None.	

Occupational exposure limits (Mexico)

Ingredient name	Exposure limits
None.	

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : 9.2

Melting point/freezing point : Not available.

Boiling point/boiling range : 100°C (212°F)

Flash point : Closed cup: >93.3°C (>199.9°F)

Evaporation rate : 0.09 (butyl acetate = 1)

Flammability (solid, gas) : Not available.

Lower and upper explosive (flammable) limits : Lower: 0.6%
Upper: 4.2%

Vapor pressure : 2.3 kPa (17.5 mm Hg) [at 20°C]

Vapor density : 1 [Air = 1]

Relative density : 1.3

Solubility : Not available.

Partition coefficient: n-octanol/water : Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): >0.205 cm^2/s (>20.5 cSt)

Molecular weight : Not applicable.

Aerosol product

Heat of combustion : 1.493 kJ/g

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Section 11. Toxicological information

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.

Inhalation : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	213836 mg/kg

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

Section 14. Transport information

Additional information	-	-	-	-	-

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Proper shipping name : Not available.

Ship type : Not available.

Pollution category : Not available.

Section 15. Regulatory information

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

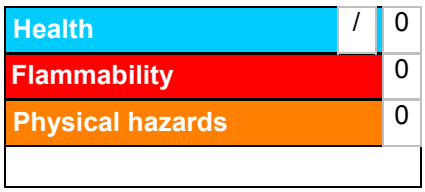
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

International lists : **Australia inventory (AICS)**: Not determined.
China inventory (IECSC): Not determined.
Japan inventory (ENCS): Not determined.
Japan inventory (ISHL): Not determined.
Korea inventory (KECI): Not determined.
Malaysia Inventory (EHS Register): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan Chemical Substances Inventory (TCSI): Not determined.
Thailand inventory: Not determined.
Turkey inventory: Not determined.
Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Section 16. Other information

Classification	Justification
Not classified.	

History

Date of printing : 3/25/2019

Date of issue/Date of revision : 3/25/2019

Date of previous issue : 1/22/2019

Version : 5.04

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

salish seeds project

San Juan County Wildflower Meadow Mix 2023
Sowing and Growing Instructions

All species in this seed mix have been nursery-produced from plants indigenous to San Juan County plus a few from Island County, Washington. The mix is intended for mostly sunny sites with average, well-drained soil. For best results, seeds should be sown in early fall of 2023. Store the packet in a cool, dry location until planting time. Many of the plants in this mix are deer-resistant; many are not. Some of them will grow well in very thin, rocky, dry soils; others will prefer somewhat deeper, more moisture-retentive soils. The mix includes self-sowing annual species which will bloom in the first year, and perennial species which will take 2-3 years to establish before blooming.

Many of the plants in this mix exhibit summer dormancy, an adaptation to our dry summers. This means that after blooming in spring and early summer, the vegetation dies back for the dry season, only to resprout from the roots in late winter or early spring. The mix does include some grasses and later-blooming species which will add interest and structure in the late summer, fall, and winter. But, in the first year, be aware that your planting may look a little sparse, with mostly annual species in bloom in the spring, and perennials investing much of their energy into root establishment, not leaves and flowers. The planting should fill out more in years 2 and 3.

All seed, native or not, grows best in bare ground that's as free of other seeds as possible. The more care taken to prepare a site, the better the results.

Here's a general guide to growing the mix.

1. Bare ground is best for sowing. Average garden soil that hasn't had a lot of weeds growing in it is a good option, or purchased, weed-free "soil" (often a mix of compost and sand). For sites that are already vegetated such as lawns or fields, a good method of preparation is to cover the area with a black landscape fabric tarp or similar materials for a year (or more!) to kill existing plants and impact the top layer of seed in the soil.

2. In early fall, about the time the fall rains begin (October is a good month), sow your seed on the bare soil surface. To help spread it more evenly, mix it with double or more the volume of diatomaceous earth, sand, or other fine-grained, inert material.

3. Cover your seed very lightly with soil. Think of just covering it enough so that you can't see it. Cover it with a weed-free material, like potting soil, coarse sand, or even straw (Not hay, which is chock full of non-native grass seed!).

You can rake your seed it into the soil, but that also risks stirring up more weed seeds. One good trick is to cover your whole site with a couple inches of coarse sand BEFORE seeding, then sprinkle and rake the seed into that. (Don't use playground sand, which is too fine.)

4. Now, wait for the fall rains to arrive. Some of the species in this mix will germinate 2-3 weeks after conditions become moist. Most of them will wait to germinate until early spring.

5. It's a good idea to do a little weeding in the first year of growth. Weeds tend to grow a lot faster than slower-growing natives. Keeping large, obvious weeds down at this stage will help your native meadow get established.

6. Maintenance. You're probably growing your meadow not just to enjoy the plants yourself, but for pollinators, other insects, birds, and other wildlife. To maximize its habitat value, don't be too tidy! It's Ok to leave dead stalks and seedheads; these provide food and habitat for all manner of creatures. Even in the fall and winter, there will be beneficial insects overwintering in the soil and dead vegetation, so be thoughtful about disturbance and resist the urge to "clean up" too much.

7. Take time to observe your patch and watch it change with the seasons and the years to come.

Species	**Common name**	**Seed lot**	**Viability**	**Date tested**
Achillea millefolium	Yarrow	ACHMIL-SJI-A-BFI-20-20884	93%	1/29/21
Allium cernuum	Nodding onion	ALLCER-RMF-2020	95%	12/9/20
Amsinckia menziesii	Menzies' fiddlehead	AMSMEN-SJI-A-VPF-21-20920	33%	10/23/21
Anaphalis margaritacea	Pearly everlasting	ANAMAR-SJI-A-BUN-16-19455	78%	7/3/19
Aquilegia formosa	Western columbine	AQUFOR-RMF-2021	96%	9/16/22
Camassia leichtlinii	Great camas	CAMLEI-RMF-2022	95%	9/16/22
Cerastium arvense	Field chickweed	CERAST-SJI-A-VPF-18-20191	87%	8/10/18
Clarkia amoena	Farewell-to-spring	CLAAMO-RMF-2021	62%	10/23/21
Collinsia parviflora	Blue-eyed Mary	COLPAR-RMF-2022	95%	9/16/22
Delphinium menziesii	Menzies' larkspur	DELMEN-RMF-2022	93%	9/16/22
Erigeron speciosus	Showy fleabane	ERISPE-ORS-A-CSF-17-19763	80%	9/26/18
Eriophyllum lanatum	Wooly sunflower	ERILAN-SJI-A-VPF-18-20340	98%	10/31/18
Festuca roemeri	Roemer's fescue	FESROE-ORS-A-BFI-21-21051	95%	8/10/18
Fritillaria affinis	Chocolate lily	FRIAFF-RMF-2021	73%	10/27/21
Grindelia integrifolia	Puget Sound gumweed	GRIINT-RMF-2021	93%	10/29/21
Leptosiphon bicolor	Bicolor leptosiphon	LEPBIC-SJI-A-VPF-18-20199	95%	8/10/18

Lomatium utriculatum	Spring gold	LOMUTR-SJI-BUN-19-20534	76%	6/5/2019
Lupinus rivularis	Streambank lupine	LUPRIV-ORS-A-BUN-20-20693	87%	9/24/20
Luzula subsessilis	Prairie woodrush	LUZSUB-RMF-2019	94%	3/12/20
Plectritis congesta	Sea blush	PLECON-RMF-2021	87%	9/15/22
Prunella vulgaris	Self-heal	PRUVUL-RMF-2021	92%	10/23/21
Ranunculus occidentalis	Western buttercup	RANOCC-SJI-A-SLN-19-20552	86%	9/20/19
Solidago canadensis	Canada goldenrod	SOLLSA-SJI-A-VPF-20-20876	74%	3/18/21

All seeds are of WA state origin.

Skagit 3-Way Turf Ryegrass Blend

PURE SEED	GERM	ORIGIN
31.98% Private Perennial Ryegrass	95.00%	OR
31.91% VNS Perennial Ryegrass	91.00%	OR
31.15% Hat Trick Perennial Ryegrass	92.00%	OR

2.21% Other Crop Seed
2.75% Inert Matter
0.10% Weed Seed
Noxious Weed Seeds: No OR, WA, Noxious Found

Tested: 02/22
Lot#: M120-22-GW27
AMS#: 1096
Sell By: 04/23

Net Weight **50** lbs

SKAGIT
Farmers Supply

THE SELLER WARRANTS TO THE EXTENT OF THE PURCHASE PRICE THAT THE SEEDS SOLD ARE AS DESCRIBED ON THE LABEL, AND ARE WITHIN THE RECOGNIZED TOLERANCES, AND THE SELLER GIVES NO OTHER OR FURTHER WARRANTY, EXPRESSED OR IMPLIED.

Appendix E

Laboratory Analytical Reports

Appendix E

Laboratory Analytical Reports - Bulk Density

HWA GeoSciences Inc.
DBE/MWBE

September 19, 2023
HWA Project No. 2013-040-23 Task 1000

Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, Washington 98101

Attention: Mr. Mark Ullery, P.E.

Subject: **Unit Weight of Soils Report**
US Coast Guard – Burrows Island
Client Project No. 30092874.00003

Dear Mr. Ullery;

In accordance with your request, HWA GeoSciences Inc. (HWA) performed laboratory testing for the above referenced project. Herein we present the results of our laboratory analyses, which are summarized on the attached Table. The laboratory testing program was performed in general accordance with your instructions and appropriate ASTM Standards as outlined below.

SAMPLE INFORMATION: The subject samples were delivered to our laboratory on September 19, 2023 by courier service. The four samples were delivered in 1.9" Stainless Steel tubes designated with sample ID. The soil samples were classified using visual-manual methods for engineering purposes. The descriptions of the specified samples may be found in Table 1 below.

UNIT WEIGHT OF SOIL: The bulk densities of the soil extruded from subject samples were measured in general accordance with ASTM D2937. The bulk density was converted to dry unit weight by dividing it by 1+ the moisture content of the sample. The results are shown below in Table 1.

Table 1: Unit Weight of Soil

Unit Weight of Soil (ASTM D2937)				
Sample ID	**Visual-Manual Description**	**Moisture Content (%)**	**Bulk Density (pcf)**	**Dry Density (pcf)**
BD-001-091523	Very dark brown, silty SAND with gravel and organics	12.1	69.8	62.3
BD-002-091523	Very dark brown, silty SAND with gravel and organics	7.5	76.6	71.2
BD-003-091523	Brown, silty SAND with gravel and organics	6.9	91.6	85.7
BD-004-091523	Dark reddish-brown, silty SAND with gravel and organics	11.1	61.5	55.4

CLOSURE: Experience has shown that test values on soil and other natural materials vary with each representative sample. As such, HWA has no knowledge as to the extent and quantity of material the tested samples may represent. HWA also makes no warranty as to how representative either the samples tested, or the test results obtained are to actual field conditions. It is a well-established fact that sampling methods present varying degrees of disturbance that affect sample representativeness.

No copy should be made of this report except in its entirety.

We appreciate the opportunity to provide laboratory testing services on this project. Should you have any questions or comments, or if we may be of further service, please call.

HWA GEOSCIENCES INC.

Alex Hodges
Materials Laboratory Supervisor

Steven E. Greene, L.G., L.E.G.
Principal Engineering Geologist
Vice President

Appendix E

Laboratory Analytical Reports - Confirmation Soil Samples

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 18, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-144

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 15, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-144
Project: 30092874.00003

Case Narrative

Samples were collected on September 11, 13 and 14, 2023 and received by the laboratory on September 15, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-144
Project: 30092874.00003

TOTAL LEAD
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RS-003-091123**					
Laboratory ID:	09-144-01					
Lead	**ND**	1.1	EPA 200.8	9-15-23	9-15-23	
Client ID:	**RS-004-091323**					
Laboratory ID:	09-144-02					
Lead	**ND**	1.1	EPA 200.8	9-15-23	9-15-23	
Client ID:	**RS-005-091423**					
Laboratory ID:	09-144-03					
Lead	**ND**	1.1	EPA 200.8	9-15-23	9-15-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-144
Project: 30092874.00003

TOTAL LEAD
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915WM2					
Lead	**ND**	1.1	EPA 200.8	9-15-23	9-15-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-144-01										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-144-01										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**106**	**110**	111	111	ND	**96**	**99**	75-125	3	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-144
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RS-003-091123**					
Laboratory ID:	09-144-01					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*86*	*55-138*				
Client ID:	**RS-005-091423**					
Laboratory ID:	09-144-03					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-16-23	9-17-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*94*	*55-138*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-144
Project: 30092874.00003

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0916W1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-16-23	9-16-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-16-23	9-16-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-16-23	9-16-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-16-23	9-16-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-16-23	9-16-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-16-23	9-16-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-16-23	9-16-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-16-23	9-16-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-16-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*93*	*55-138*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0916W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.477**	**0.486**	0.500	0.500	N/A	**95**	**97**	66-120	2	16	
Surrogate:											
DCB						*88*	*91*	*55-138*			

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Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-144
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RS-003-091123**					
Laboratory ID:	09-144-01					
Diesel Range Organics	**ND**	0.21	NWTPH-Dx	9-16-23	9-18-23	
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	9-16-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*94*	*50-150*				
Client ID:	**RS-005-091423**					
Laboratory ID:	09-144-03					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	9-16-23	9-18-23	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	9-16-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				

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Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-144
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0916W1					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	9-16-23	9-18-23	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	9-16-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-144-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Surrogate:											
o-Terphenyl						*94*	*88*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Days ~~☐ 3 Days~~
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-144

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Metals lead (6010)	PCBs	DRO/HO by NWTPH-Dx		% Moisture
1	RS-003-091123	9/11/23	1440	W	5																		X	X	X		
2	RS-004-091323	9/13/23	2030	W	1																		X				
3	RS-005-091423	9/14/23	2020	W	5																		X	X	X		

	Signature	Company	Date	Time
Relinquished	Thom Nannini	Arcadis	9/15/23	0600
Received	Courier Service			
Relinquished				
Received		OSE	9/15/23	1130
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 19, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-154

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 18, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-154
Project: 30092874.00003

Case Narrative

Samples were collected on September 16 and 17, 2023 and received by the laboratory on September 18, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-154
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-I-001-091623**					
Laboratory ID:	09-154-01					
Lead	**39**	5.4	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-I-002-091623**					
Laboratory ID:	09-154-02					
Lead	**19**	5.3	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-I-003-091623**					
Laboratory ID:	09-154-03					
Lead	**11**	5.2	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-I-004-091623**					
Laboratory ID:	09-154-04					
Lead	**17**	5.2	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-I-005-091623**					
Laboratory ID:	09-154-05					
Lead	**12**	5.4	EPA 6010D	9-18-23	9-18-23	
Client ID:	**EB-I-001-091623**					
Laboratory ID:	09-154-06					
Lead	**6.1**	5.4	EPA 6010D	9-18-23	9-19-23	
Client ID:	**EB-I-002-091623**					
Laboratory ID:	09-154-07					
Lead	**130**	5.5	EPA 6010D	9-18-23	9-19-23	
Client ID:	**EB-I-003-091623**					
Laboratory ID:	09-154-08					
Lead	**71**	5.6	EPA 6010D	9-18-23	9-19-23	

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Date of Report: September 19, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-154
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-007-091623**					
Laboratory ID:	09-154-09					
Lead	**8.8**	5.2	EPA 6010D	9-18-23	9-19-23	
Client ID:	**SS-A-001-091723**					
Laboratory ID:	09-154-11					
Lead	**29**	5.4	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-A-002-091723**					
Laboratory ID:	09-154-12					
Lead	**15**	5.3	EPA 6010D	9-18-23	9-19-23	
Client ID:	**SS-A-003-091723**					
Laboratory ID:	09-154-13					
Lead	**15**	5.6	EPA 6010D	9-18-23	9-19-23	
Client ID:	**SS-A-004-091723**					
Laboratory ID:	09-154-14					
Lead	**6.6**	5.2	EPA 6010D	9-18-23	9-19-23	
Client ID:	**EB-A-001-091723**					
Laboratory ID:	09-154-15					
Lead	**100**	5.6	EPA 6010D	9-18-23	9-19-23	
Client ID:	**EB-A-002-091723**					
Laboratory ID:	09-154-16					
Lead	**50**	5.5	EPA 6010D	9-18-23	9-19-23	
Client ID:	**EB-A-003-091723**					
Laboratory ID:	09-154-17					
Lead	**7.9**	5.4	EPA 6010D	9-18-23	9-19-23	

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Date of Report: September 19, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-154
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-B-001-091723**					
Laboratory ID:	09-154-18					
Lead	**13**	6.1	EPA 6010D	9-18-23	9-18-23	
Client ID:	**EB-C-001-091723**					
Laboratory ID:	09-154-19					
Lead	**15**	6.1	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-C-001-091723**					
Laboratory ID:	09-154-20					
Lead	**190**	5.5	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-C-002-091723**					
Laboratory ID:	09-154-21					
Lead	**6.7**	5.2	EPA 6010D	9-18-23	9-18-23	
Client ID:	**DUP-008-091723**					
Laboratory ID:	09-154-22					
Lead	**7.8**	5.4	EPA 6010D	9-18-23	9-19-23	

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Date of Report: September 19, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-154
Project: 30092874.00003

TOTAL LEAD
EPA 6010D
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918SM3					
Lead	**ND**	5.0	EPA 6010D	9-18-23	9-18-23	
Laboratory ID:	MB0918SM4					
Lead	**ND**	5.0	EPA 6010D	9-18-23	9-18-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-154-11										
	ORIG	DUP									
Lead	**26.8**	**31.0**	NA	NA		NA		NA	15	20	
Laboratory ID:	09-154-18										
	ORIG	DUP									
Lead	**10.2**	**9.40**	NA	NA		NA		NA	8	20	
MATRIX SPIKES											
Laboratory ID:	09-154-11										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**248**	**245**	250	250	26.8	**89**	**87**	75-125	1	20	
Laboratory ID:	09-154-18										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**216**	**209**	250	250	10.2	**83**	**80**	75-125	3	20	

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Date of Report: September 19, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-154
Project: 30092874.00003

TOTAL LEAD
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RS-006-091623**					
Laboratory ID:	09-154-10					
Lead	**ND**	1.1	EPA 200.8	9-19-23	9-19-23	
Client ID:	**RS-007-091723**					
Laboratory ID:	09-154-23					
Lead	**ND**	1.1	EPA 200.8	9-19-23	9-19-23	

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Date of Report: September 19, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-154
Project: 30092874.00003

TOTAL LEAD
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919WM1					
Lead	**ND**	1.1	EPA 200.8	9-19-23	9-19-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-154-10										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-154-10										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**110**	**107**	111	111	ND	**99**	**96**	75-125	3	20	

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Date of Report: September 19, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-154
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-I-001-091623	09-154-01	**8**	9-18-23
SS-I-002-091623	09-154-02	**5**	9-18-23
SS-I-003-091623	09-154-03	**4**	9-18-23
SS-I-004-091623	09-154-04	**4**	9-18-23
SS-I-005-091623	09-154-05	**8**	9-18-23
EB-I-001-091623	09-154-06	**7**	9-18-23
EB-I-002-091623	09-154-07	**9**	9-18-23
EB-I-003-091623	09-154-08	**10**	9-18-23
DUP-007-091623	09-154-09	**4**	9-18-23
SS-A-001-091723	09-154-11	**7**	9-18-23
SS-A-002-091723	09-154-12	**5**	9-18-23
SS-A-003-091723	09-154-13	**11**	9-18-23
SS-A-004-091723	09-154-14	**4**	9-18-23
EB-A-001-091723	09-154-15	**11**	9-18-23
EB-A-002-091723	09-154-16	**9**	9-18-23
EB-A-003-091723	09-154-17	**8**	9-18-23
EB-B-001-091723	09-154-18	**19**	9-18-23
EB-C-001-091723	09-154-19	**18**	9-18-23
SS-C-001-091723	09-154-20	**9**	9-18-23
SS-C-002-091723	09-154-21	**5**	9-18-23
DUP-008-091723	09-154-22	**8**	9-18-23

This report pertains to the samples analyzed in accordance with the chain of custody,
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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day (Rush)
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-154

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Metal lead 6010				% Moisture
1	SS-I-001-091623	9/16/23	1100	S	1																		X				X
2	SS-I-002-091623	9/16/23	1105	S	1																		X				
3	SS-I-003-091623	9/16/23	1110	S	1																		X				
4	SS-I-004-091623	9/16/23	1115	S	1																		X				
5	SS-I-005-091623	9/16/23	1120	S	1																		X				
6	EB-I-001-091623	9/16/23	1125	S	1																		X				
7	EB-I-002-091623	9/16/23	1130	S	1																		X				
8	EB-I-003-091623	9/16/23	1135	S	1																		X				
9	Dup-007-91623	9/16/23	—	S	1																		X				
10	RS-006-091623	9/16/23	1620	W	1																		X				

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/18/23	0600
Received	Courier Service			
Relinquished				
Received	[signature]	CORE	9/18/23	1245
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Chain of Custody

OnSite Environmental Inc.
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Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
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Sampled by: Thomas Nennin'

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day (Rush)
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-154

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Pb (6010)	TSM (ISM)			% Moisture
11	SS-A-001-091723		1045	S	2																		X	X			
12	SS-A-002-091723		1050	S	1																		X				
13	SS-A-003-091723		1055	S	1																		X				
14	SS-A-004-091723		1100	S	1																		X				
15	EB-A-001-091723		1105	S	1																		X				
16	EB-A-002-091723		1110	S	1																		X				
17	EB-A-003-091723		1115	S	1																		X				
18	EB-B-001-091723		1120	S	1																		X				
19	EB-C-001-091723		1125	S	1																		X				
20	SS-C-001-091723		1130	S	1																		X				

	Signature	Company	Date	Time
Relinquished	Thomas Nennin	Arcadis	9/18/23	0600
Received	Courier Service			
Relinquished				
Received		ONE	9/18/23	1245
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

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Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)

(Check One) RUSH

- ☐ Same Day
- ☒ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 09-154

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Pb (6010)				% Moisture
21	SS-C-002-091723		1135	S	1																		X				20
22	Dup-008-091723		–	S	1																		X				1
23	RS-007-091723	9/17/23	1710	W	1																		X				

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/18/23	0600
Received	Courier Service	Arcadis	9/18/23	0600
Relinquished				
Received		ONE	9/18/23	1245
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 20, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-168

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 19, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 20, 2023
Samples Submitted: September 19, 2023
Laboratory Reference: 2309-168
Project: 30092874.00003

Case Narrative

Samples were collected on September 18, 2023 and received by the laboratory on September 19, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 20, 2023
Samples Submitted: September 19, 2023
Laboratory Reference: 2309-168
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-H-001-091823**					
Laboratory ID:	09-168-01					
Lead	**21**	5.0	EPA 6010D	9-19-23	9-19-23	
Client ID:	**SS-H-002-091823**					
Laboratory ID:	09-168-02					
Lead	**27**	5.4	EPA 6010D	9-19-23	9-19-23	
Client ID:	**SS-H-003-091823**					
Laboratory ID:	09-168-03					
Lead	**27**	5.1	EPA 6010D	9-19-23	9-19-23	
Client ID:	**SS-H-004-091823**					
Laboratory ID:	09-168-04					
Lead	**43**	5.5	EPA 6010D	9-19-23	9-19-23	
Client ID:	**SS-H-005-091823**					
Laboratory ID:	09-168-05					
Lead	**52**	5.3	EPA 6010D	9-19-23	9-19-23	
Client ID:	**SS-H-006-091823**					
Laboratory ID:	09-168-06					
Lead	**23**	5.3	EPA 6010D	9-19-23	9-19-23	
Client ID:	**SS-H-007-091823**					
Laboratory ID:	09-168-07					
Lead	**33**	5.3	EPA 6010D	9-19-23	9-19-23	
Client ID:	**SS-H-008-091823**					
Laboratory ID:	09-168-08					
Lead	**61**	5.3	EPA 6010D	9-19-23	9-19-23	

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Date of Report: September 20, 2023
Samples Submitted: September 19, 2023
Laboratory Reference: 2309-168
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-H-009-091823**					
Laboratory ID:	09-168-09					
Lead	**28**	5.3	EPA 6010D	9-19-23	9-19-23	
Client ID:	**SS-H-010-091823**					
Laboratory ID:	09-168-10					
Lead	**23**	5.5	EPA 6010D	9-19-23	9-19-23	
Client ID:	**SS-H-011-091823**					
Laboratory ID:	09-168-11					
Lead	**29**	5.5	EPA 6010D	9-19-23	9-19-23	
Client ID:	**SS-H-012-091823**					
Laboratory ID:	09-168-12					
Lead	**51**	5.5	EPA 6010D	9-19-23	9-19-23	
Client ID:	**SS-H-013-091823**					
Laboratory ID:	09-168-13					
Lead	**72**	5.4	EPA 6010D	9-19-23	9-19-23	
Client ID:	**EB-H-001-091823**					
Laboratory ID:	09-168-14					
Lead	**22**	5.1	EPA 6010D	9-19-23	9-19-23	
Client ID:	**EB-H-002-091823**					
Laboratory ID:	09-168-15					
Lead	**24**	5.2	EPA 6010D	9-19-23	9-19-23	
Client ID:	**EB-H-003-091823**					
Laboratory ID:	09-168-16					
Lead	**39**	5.3	EPA 6010D	9-19-23	9-19-23	

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Date of Report: September 20, 2023
Samples Submitted: September 19, 2023
Laboratory Reference: 2309-168
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-H-004-091823**					
Laboratory ID:	09-168-17					
Lead	**30**	5.2	EPA 6010D	9-19-23	9-19-23	
Client ID:	**EB-H-005-091823**					
Laboratory ID:	09-168-18					
Lead	**160**	5.2	EPA 6010D	9-19-23	9-19-23	
Client ID:	**EB-H-006-091823**					
Laboratory ID:	09-168-19					
Lead	**74**	5.2	EPA 6010D	9-19-23	9-19-23	
Client ID:	**EB-H-007-091823**					
Laboratory ID:	09-168-20					
Lead	**74**	5.2	EPA 6010D	9-19-23	9-19-23	
Client ID:	**EB-H-009-091823**					
Laboratory ID:	09-168-21					
Lead	**250**	5.4	EPA 6010D	9-19-23	9-19-23	
Client ID:	**EB-H-010-091823**					
Laboratory ID:	09-168-22					
Lead	**120**	5.4	EPA 6010D	9-19-23	9-19-23	
Client ID:	**DUP-009-091823**					
Laboratory ID:	09-168-24					
Lead	**16**	5.2	EPA 6010D	9-19-23	9-19-23	
Client ID:	**DUP-010-091823**					
Laboratory ID:	09-168-25					
Lead	**120**	5.5	EPA 6010D	9-19-23	9-19-23	

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Date of Report: September 20, 2023
Samples Submitted: September 19, 2023
Laboratory Reference: 2309-168
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-011-091823**					
Laboratory ID:	09-168-27					
Lead	**19**	5.2	EPA 6010D	9-19-23	9-19-23	
Client ID:	**EB-H-008-091823**					
Laboratory ID:	09-168-28					
Lead	**230**	5.2	EPA 6010D	9-19-23	9-19-23	

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Date of Report: September 20, 2023
Samples Submitted: September 19, 2023
Laboratory Reference: 2309-168
Project: 30092874.00003

TOTAL LEAD
EPA 6010D
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919SM2					
Lead	**ND**	5.0	EPA 6010D	9-19-23	9-19-23	
Laboratory ID:	MB0919SM3					
Lead	**ND**	5.0	EPA 6010D	9-19-23	9-19-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-168-01										
	ORIG	DUP									
Lead	**21.0**	**15.3**	NA	NA		NA		NA	31	20	C
Laboratory ID:	09-168-14										
	ORIG	DUP									
Lead	**21.2**	**25.8**	NA	NA		NA		NA	20	20	
MATRIX SPIKES											
Laboratory ID:	09-168-01										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**258**	**259**	250	250	21.0	**95**	**95**	75-125	0	20	
Laboratory ID:	09-168-14										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**259**	**244**	250	250	21.2	**95**	**89**	75-125	6	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 20, 2023
Samples Submitted: September 19, 2023
Laboratory Reference: 2309-168
Project: 30092874.00003

TOTAL LEAD
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RS-008-091823**					
Laboratory ID:	09-168-26					
Lead	**ND**	1.1	EPA 200.8	9-19-23	9-19-23	

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Date of Report: September 20, 2023
Samples Submitted: September 19, 2023
Laboratory Reference: 2309-168
Project: 30092874.00003

TOTAL LEAD
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919WM1					
Lead	**ND**	1.1	EPA 200.8	9-19-23	9-19-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-154-10										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-154-10										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**110**	**107**	111	111	ND	**99**	**96**	75-125	3	20	

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Date of Report: September 20, 2023
Samples Submitted: September 19, 2023
Laboratory Reference: 2309-168
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-H-001-091823	09-168-01	**0**	9-19-23
SS-H-002-091823	09-168-02	**8**	9-19-23
SS-H-003-091823	09-168-03	**1**	9-19-23
SS-H-004-091823	09-168-04	**10**	9-19-23
SS-H-005-091823	09-168-05	**6**	9-19-23
SS-H-006-091823	09-168-06	**6**	9-19-23
SS-H-007-091823	09-168-07	**6**	9-19-23
SS-H-008-091823	09-168-08	**5**	9-19-23
SS-H-009-091823	09-168-09	**6**	9-19-23
SS-H-010-091823	09-168-10	**9**	9-19-23
SS-H-011-091823	09-168-11	**9**	9-19-23
SS-H-012-091823	09-168-12	**10**	9-19-23
SS-H-013-091823	09-168-13	**7**	9-19-23
EB-H-001-091823	09-168-14	**3**	9-19-23
EB-H-002-091823	09-168-15	**5**	9-19-23
EB-H-003-091823	09-168-16	**5**	9-19-23
EB-H-004-091823	09-168-17	**5**	9-19-23
EB-H-005-091823	09-168-18	**5**	9-19-23
EB-H-006-091823	09-168-19	**4**	9-19-23
EB-H-007-091823	09-168-20	**4**	9-19-23
EB-H-009-091823	09-168-21	**8**	9-19-23
EB-H-010-091823	09-168-22	**8**	9-19-23
DUP-009-091823	09-168-24	**3**	9-19-23
DUP-010-091823	09-168-25	**8**	9-19-23
DUP-011-091823	09-168-27	**5**	9-19-23
EB-H-008-091823	09-168-28	**4**	9-19-23

This report pertains to the samples analyzed in accordance with the chain of custody,
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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

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Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Tom Nennini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-168

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Metal Pb (6010)	MS/MSD			% Moisture
1	SS-H-001-091823	9/18/23	1400	S	3																		X	X			X
2	SS-H-002-091823		1405	S	1																		X				X
3	SS-H-003-091823		1410	S	1																		X				X
4	SS-H-004-091823		1415	S	1																		X				X
5	SS-H-005-091823		1420	S	1																		X				X
6	SS-H-006-091823		1425	S	1																		X				X
7	SS-H-007-091823		1430	S	1																		X				X
8	SS-H-008-091823		1435	S	1																		X				X
9	SS-H-009-091823		1440	S	1																		X				X
10	SS-H-010-091823	9/18/23	1445	S	1																		X				X

	Signature	Company	Date	Time
Relinquished	Thomas Nennini	Arcadis	9/19/23	0800
Received	Nichelle Bigham	OSE	9/19/23	0904
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day (Rush) ☐ 2 Days ☐ 3 Days ☐ Standard (7 Days) ☐ _____ (other)

Laboratory Number: 09-168

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Metal Pb (6010)	MS/MSD			% Moisture
11	SS-H-011-091823	9/18/23	1450	S	1																		X				X
12	SS-H-012-091823		1500	S	1																		X				X
13	SS-H-013-091823		1505	S	1																		X				X
14	EB-H-001-091823		1510	S	2																		X	X			X
15	EB-H-002-091823		1515	S	1																		X				X
16	EB-H-003-091823		1520	S	1																		X				X
17	EB-H-004-091823		1525	S	1																		X				X
18	EB-H-005-091823		1530	S	1																		X				X
19	EB-H-006-091823		1535	S	1																		X				X
20	EB-H-007-091823	9/18/23	1540	S	1																		X				X

	Signature	Company	Date	Time
Relinquished	Thom Nannini	Arcadis	9/19/23	0800
Received	Nichelle Baptiste	OSE	9/19/23	0904
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

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Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
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Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ ~~1 Day~~ Rush
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-168

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Metal Pb (6010)				% Moisture
~~TN~~	~~EB-H-008-091823~~	9/18/23	1545	S	1																		X				
21	EB-H-009-091823		1550	S	1																		X				X
22	EB-H-010-091823		1555	S	1																		X				X
~~23~~	~~Dup-008-091823~~		—	S	1																		X				
24	Dup-009-091823		—	S	1																		X				X
25	Dup-010-091823		—	S	1																		X				X
26	RS-008-091823	9/18/23	1455	W	1																		X				~~X~~
27	~~EB~~ Dup-H-011-091823	9/18/23	1545	S	1																		X				X
28	EB-H-008-091823	9/18/23	1545	S	1																		X				X

	Signature	Company	Date	Time
Relinquished	[signature]	Arcadis	9/19/23	0800
Received	Nichelle Bylsma	OSE	9/19/23	0904
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 21, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-187

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 20, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 20, 2023
Laboratory Reference: 2309-187
Project: 30092874.00003

Case Narrative

Samples were collected on September 19, 2023 and received by the laboratory on September 20, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Lead EPA 6010D Analysis

The duplicate RPD for Lead is outside control limits due to sample inhomogeneity.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 20, 2023
Laboratory Reference: 2309-187
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-H-014-091923**					
Laboratory ID:	09-187-01					
Lead	**270**	5.3	EPA 6010D	9-20-23	9-20-23	
Client ID:	**SS-H-015-091923**					
Laboratory ID:	09-187-02					
Lead	**440**	5.5	EPA 6010D	9-20-23	9-20-23	
Client ID:	**SS-H-016-091923**					
Laboratory ID:	09-187-03					
Lead	**330**	5.7	EPA 6010D	9-20-23	9-20-23	
Client ID:	**SS-H-017-091923**					
Laboratory ID:	09-187-04					
Lead	**210**	5.4	EPA 6010D	9-20-23	9-20-23	
Client ID:	**SS-H-018-091923**					
Laboratory ID:	09-187-05					
Lead	**470**	5.5	EPA 6010D	9-20-23	9-20-23	
Client ID:	**SS-H-019-091923**					
Laboratory ID:	09-187-06					
Lead	**209**	5.4	EPA 6010D	9-20-23	9-20-23	
Client ID:	**SS-H-020-091923**					
Laboratory ID:	09-187-07					
Lead	**200**	5.4	EPA 6010D	9-20-23	9-20-23	
Client ID:	**SS-H-021-091923**					
Laboratory ID:	09-187-08					
Lead	**83**	5.3	EPA 6010D	9-20-23	9-20-23	

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Date of Report: September 21, 2023
Samples Submitted: September 20, 2023
Laboratory Reference: 2309-187
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-H-022-091923**					
Laboratory ID:	09-187-09					
Lead	**63**	5.3	EPA 6010D	9-20-23	9-20-23	
Client ID:	**SS-H-023-091923**					
Laboratory ID:	09-187-10					
Lead	**79**	5.4	EPA 6010D	9-20-23	9-20-23	
Client ID:	**SS-H-024-091923**					
Laboratory ID:	09-187-11					
Lead	**120**	5.4	EPA 6010D	9-20-23	9-20-23	
Client ID:	**SS-H-025-091923**					
Laboratory ID:	09-187-12					
Lead	**71**	5.3	EPA 6010D	9-20-23	9-20-23	
Client ID:	**EB-H-011-091923**					
Laboratory ID:	09-187-13					
Lead	**720**	5.8	EPA 6010D	9-20-23	9-20-23	
Client ID:	**EB-H-012-091923**					
Laboratory ID:	09-187-14					
Lead	**60**	5.4	EPA 6010D	9-20-23	9-20-23	
Client ID:	**EB-H-013-091923**					
Laboratory ID:	09-187-15					
Lead	**35**	5.4	EPA 6010D	9-20-23	9-20-23	
Client ID:	**EB-H-014-091923**					
Laboratory ID:	09-187-16					
Lead	**250**	5.1	EPA 6010D	9-20-23	9-20-23	

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Date of Report: September 21, 2023
Samples Submitted: September 20, 2023
Laboratory Reference: 2309-187
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-H-015-091923**					
Laboratory ID:	09-187-17					
Lead	**31**	5.5	EPA 6010D	9-20-23	9-20-23	
Client ID:	**EB-H-016-091923**					
Laboratory ID:	09-187-18					
Lead	**7.0**	5.2	EPA 6010D	9-20-23	9-20-23	
Client ID:	**EB-H-017-091923**					
Laboratory ID:	09-187-19					
Lead	**39**	5.3	EPA 6010D	9-20-23	9-20-23	
Client ID:	**EB-H-018-091923**					
Laboratory ID:	09-187-20					
Lead	**160**	5.6	EPA 6010D	9-20-23	9-20-23	
Client ID:	**EB-H-019-091923**					
Laboratory ID:	09-187-21					
Lead	**38**	5.3	EPA 6010D	9-20-23	9-20-23	
Client ID:	**EB-H-020-091923**					
Laboratory ID:	09-187-22					
Lead	**59**	5.3	EPA 6010D	9-20-23	9-20-23	
Client ID:	**DUP-012-091923**					
Laboratory ID:	09-187-23					
Lead	**6300**	53	EPA 6010D	9-20-23	9-21-23	
Client ID:	**DUP-013-091923**					
Laboratory ID:	09-187-24					
Lead	**83**	5.5	EPA 6010D	9-20-23	9-20-23	

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Date of Report: September 21, 2023
Samples Submitted: September 20, 2023
Laboratory Reference: 2309-187
Project: 30092874.00003

TOTAL LEAD
EPA 6010D
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920SM1					
Lead	**ND**	5.0	EPA 6010D	9-20-23	9-20-23	
Laboratory ID:	MB0920SM2					
Lead	**ND**	5.0	EPA 6010D	9-20-23	9-20-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-187-07										
	ORIG	DUP									
Lead	**181**	**136**	NA	NA		NA		NA	28	20	L
Laboratory ID:	09-187-15										
	ORIG	DUP									
Lead	**32.1**	**28.7**	NA	NA		NA		NA	11	20	
MATRIX SPIKES											
Laboratory ID:	09-187-07										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**388**	**412**	250	250	181	**83**	**93**	75-125	6	20	
Laboratory ID:	09-187-15										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**284**	**282**	250	250	32.1	**101**	**100**	75-125	1	20	

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Date of Report: September 21, 2023
Samples Submitted: September 20, 2023
Laboratory Reference: 2309-187
Project: 30092874.00003

TOTAL LEAD
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RS-009-091923**					
Laboratory ID:	09-187-25					
Lead	**ND**	1.1	EPA 200.8	9-21-23	9-21-23	

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Date of Report: September 21, 2023
Samples Submitted: September 20, 2023
Laboratory Reference: 2309-187
Project: 30092874.00003

TOTAL LEAD
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0921WM1					
Lead	**ND**	1.1	EPA 200.8	9-21-23	9-21-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-187-25										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-187-25										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**106**	**106**	111	111	ND	**96**	**96**	75-125	0	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 20, 2023
Laboratory Reference: 2309-187
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-H-014-091923	09-187-01	**6**	9-20-23
SS-H-015-091923	09-187-02	**8**	9-20-23
SS-H-016-091923	09-187-03	**12**	9-20-23
SS-H-017-091923	09-187-04	**7**	9-20-23
SS-H-018-091923	09-187-05	**9**	9-20-23
SS-H-019-091923	09-187-06	**7**	9-20-23
SS-H-020-091923	09-187-07	**8**	9-20-23
SS-H-021-091923	09-187-08	**6**	9-20-23
SS-H-022-091923	09-187-09	**6**	9-20-23
SS-H-023-091923	09-187-10	**7**	9-20-23
SS-H-024-091923	09-187-11	**7**	9-20-23
SS-H-025-091923	09-187-12	**7**	9-20-23
EB-H-011-091923	09-187-13	**14**	9-20-23
EB-H-012-091923	09-187-14	**7**	9-20-23
EB-H-013-091923	09-187-15	**8**	9-20-23
EB-H-014-091923	09-187-16	**1**	9-20-23
EB-H-015-091923	09-187-17	**8**	9-20-23
EB-H-016-091923	09-187-18	**4**	9-20-23
EB-H-017-091923	09-187-19	**6**	9-20-23
EB-H-018-091923	09-187-20	**11**	9-20-23
EB-H-019-091923	09-187-21	**6**	9-20-23
EB-H-020-091923	09-187-22	**6**	9-20-23
DUP-012-091923	09-187-23	**6**	9-20-23
DUP-013-091923	09-187-24	**8**	9-20-23

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

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Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Branden Joy

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day (Rush)
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-187

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total lead (6010)	MS/MSD			% Moisture
1	SS-H-014-091923	9/19/23	1200	S	1																		X				6
2	SS-H-015-091923		1205	S	1																		X				
3	SS-H-016-091923		1210	S	1																		X				
4	SS-H-017-091923		1215	S	1																		X				
5	SS-H-018-091923		1220	S	1																		X				
6	SS-H-019-091923		1225	S	1																		X				
7	SS-H-020-091923		1230	S	3																		X	X			
8	SS-H-021-091923		1235	S	1																		X				
9	SS-H-022-091923		1240	S	1																		X				
10	SS-H-023-091923		1245	S	1																		X				

	Signature	Company	Date	Time
Relinquished	Branden Joy	Arcadis	9/20/23	0600
Received		ORE	9/20/23	1200
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

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Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Branden Joy

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day (Rush)
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-187

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Lead (6010)	MS/MSD			% Moisture
11	SS-H-024-091923	9/19/23	1250	S	1																		X				8
12	SS-H-025-091923		1255	S	1																		X				
13	EB-H-011-091923		1300	S	1																		X				
14	EB-H-012-091923		1305	S	1																		X				
15	EB-H-013-091923		1310	S	3																		X	X			
16	EB-H-014-091923		1315	S	1																		X				
17	EB-H-015-091923		1320	S	1																		X				
18	EB-H-016-091923		1325	S	1																		X				
19	EB-H-017-091923		1330	S	1																		X				
20	EB-H-018-091923		1335	S	1																		X				

	Signature	Company	Date	Time
Relinquished	Branden Joy	Arcadis	9/20/23	0600
Received		OSE	9/20/23	1200
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USGG Burrows Island
Project Manager: Paul McCullough
Sampled by: B. Joy

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day (Rush)
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-187

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Lead (6010)				% Moisture
21	EB-H-019-091923	9/19/23	1340	S	1																		X				6
22	EB-H-020 (83) ~~089~~ 091923	↓	1345	S	1																		X				↓
23	DUP-012-091923		—	S	1																		X				
24	DUP-013-091923		—	S	1																		X				
25	RS-009-091923	↓	1100	W	1																		X				

	Signature	Company	Date	Time
Relinquished	Brandon Joy	Arcadis	9/20/23	0600
Received		OSE	9/20/23	1200
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 22, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-210

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 21, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

Case Narrative

Samples were collected on September 20, 2023 and received by the laboratory on September 21, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Lead EPA 6010D Analysis

The duplicate RPD for Lead is outside control limits due to sample inhomogeneity.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-F-001-092023**					
Laboratory ID:	09-210-01					
Lead	**220**	5.4	EPA 6010D	9-21-23	9-21-23	
Client ID:	**SS-F-002-092023**					
Laboratory ID:	09-210-02					
Lead	**350**	5.6	EPA 6010D	9-21-23	9-21-23	
Client ID:	**SS-F-003-092023**					
Laboratory ID:	09-210-03					
Lead	**88**	5.4	EPA 6010D	9-21-23	9-21-23	
Client ID:	**SS-F-004-092023**					
Laboratory ID:	09-210-04					
Lead	**170**	5.6	EPA 6010D	9-21-23	9-21-23	
Client ID:	**SS-F-005-092023**					
Laboratory ID:	09-210-05					
Lead	**290**	5.7	EPA 6010D	9-21-23	9-21-23	
Client ID:	**SS-F-006-092023**					
Laboratory ID:	09-210-06					
Lead	**190**	5.5	EPA 6010D	9-21-23	9-21-23	
Client ID:	**SS-F-007-092023**					
Laboratory ID:	09-210-07					
Lead	**78**	5.3	EPA 6010D	9-21-23	9-21-23	
Client ID:	**SS-F-008-092023**					
Laboratory ID:	09-210-08					
Lead	**210**	5.6	EPA 6010D	9-21-23	9-21-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-F-009-092023**					
Laboratory ID:	09-210-09					
Lead	**250**	5.7	EPA 6010D	9-21-23	9-22-23	
Client ID:	**SS-F-010-092023**					
Laboratory ID:	09-210-10					
Lead	**68**	5.4	EPA 6010D	9-21-23	9-22-23	
Client ID:	**EB-F-001-092023**					
Laboratory ID:	09-210-11					
Lead	**13**	5.7	EPA 6010D	9-21-23	9-22-23	
Client ID:	**EB-F-002-092023**					
Laboratory ID:	09-210-12					
Lead	**85**	5.6	EPA 6010D	9-21-23	9-22-23	
Client ID:	**EB-F-003-092023**					
Laboratory ID:	09-210-13					
Lead	**82**	5.4	EPA 6010D	9-21-23	9-22-23	
Client ID:	**EB-F-004-092023**					
Laboratory ID:	09-210-14					
Lead	**43**	5.6	EPA 6010D	9-21-23	9-22-23	
Client ID:	**SS-P-001-092023**					
Laboratory ID:	09-210-15					
Lead	**110**	5.3	EPA 6010D	9-21-23	9-22-23	
Client ID:	**SS-P-002-092023**					
Laboratory ID:	09-210-16					
Lead	**240**	5.3	EPA 6010D	9-21-23	9-21-23	

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Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-P-003-092023**					
Laboratory ID:	09-210-17					
Lead	**44**	5.5	EPA 6010D	9-21-23	9-22-23	
Client ID:	**SS-P-004-092023**					
Laboratory ID:	09-210-18					
Lead	**42**	5.3	EPA 6010D	9-21-23	9-22-23	
Client ID:	**EB-P-001-092023**					
Laboratory ID:	09-210-19					
Lead	**6.7**	5.4	EPA 6010D	9-21-23	9-22-23	
Client ID:	**DUP-014-092023**					
Laboratory ID:	09-210-20					
Lead	**180**	5.3	EPA 6010D	9-21-23	9-22-23	
Client ID:	**DUP-015-092023**					
Laboratory ID:	09-210-21					
Lead	**470**	5.7	EPA 6010D	9-21-23	9-22-23	
Client ID:	**DUP-016-092023**					
Laboratory ID:	09-210-22					
Lead	**81**	5.6	EPA 6010D	9-21-23	9-22-23	
Client ID:	**DUP-017-092023**					
Laboratory ID:	09-210-23					
Lead	**110**	5.5	EPA 6010D	9-21-23	9-22-23	
Client ID:	**SS-K-008-092023**					
Laboratory ID:	09-210-24					
Lead	**110**	5.3	EPA 6010D	9-21-23	9-22-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-K-009-092023**					
Laboratory ID:	09-210-25					
Lead	**120**	5.3	EPA 6010D	9-21-23	9-22-23	

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Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

TOTAL LEAD
EPA 6010D
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0921SM2					
Lead	**ND**	5.0	EPA 6010D	9-21-23	9-21-23	
Laboratory ID:	MB0921SM3					
Lead	**ND**	5.0	EPA 6010D	9-21-23	9-21-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-093-01										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	09-210-16										
	ORIG	DUP									
Lead	**227**	**448**	NA	NA		NA		NA	65	20	L
MATRIX SPIKES											
Laboratory ID:	09-093-01										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**270**	**269**	250	250	ND	**108**	**107**	75-125	1	20	
Laboratory ID:	09-093-01										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**454**	**496**	250	250	227	**91**	**107**	75-125	9	20	

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Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

TOTAL LEAD
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RS-010-092023**					
Laboratory ID:	09-210-26					
Lead	**ND**	1.1	EPA 200.8	9-21-23	9-21-23	

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Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

TOTAL LEAD
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0921WM1					
Lead	**ND**	1.1	EPA 200.8	9-21-23	9-21-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-187-25										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-187-25										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**106**	**106**	111	111	ND	**96**	**96**	75-125	0	20	

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Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-K-008-092023**					
Laboratory ID:	09-210-24					
Aroclor 1016	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1254	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1260	**0.25**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*82*	*50-127*				
Client ID:	**SS-K-009-092023**					
Laboratory ID:	09-210-25					
Aroclor 1016	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1254	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1260	**0.58**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	9-22-23	9-22-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*85*	*50-127*				

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Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-22-23	9-22-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-22-23	9-22-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-22-23	9-22-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-22-23	9-22-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-22-23	9-22-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-22-23	9-22-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-22-23	9-22-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-22-23	9-22-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-22-23	9-22-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*77*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0922S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.434**	**0.477**	0.500	0.500	N/A	**87**	**95**	55-119	9	34	
Surrogate:											
DCB						*82*	*86*	*50-127*			

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Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-K-008-092023**					
Laboratory ID:	09-210-24					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-22-23	9-22-23	
Lube Oil Range Organics	**ND**	53	NWTPH-Dx	9-22-23	9-22-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				
Client ID:	**SS-K-009-092023**					
Laboratory ID:	09-210-25					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-22-23	9-22-23	
Lube Oil	**66**	53	NWTPH-Dx	9-22-23	9-22-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				

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Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0922S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-22-23	9-22-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-22-23	9-22-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-199-01										
	ORIG	DUP									
Diesel Fuel #2	**431**	**375**	NA	NA		NA		NA	14	40	
Lube Oil Range Organics	**132**	**130**	NA	NA		NA		NA	2	40	
Surrogate:											
o-Terphenyl						*91*	*89*	*50-150*			

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Date of Report: September 22, 2023
Samples Submitted: September 21, 2023
Laboratory Reference: 2309-210
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-F-001-092023	09-210-01	**7**	9-21-23
SS-F-002-092023	09-210-02	**10**	9-21-23
SS-F-003-092023	09-210-03	**7**	9-21-23
SS-F-004-092023	09-210-04	**11**	9-21-23
SS-F-005-092023	09-210-05	**12**	9-21-23
SS-F-006-092023	09-210-06	**8**	9-21-23
SS-F-007-092023	09-210-07	**6**	9-21-23
SS-F-008-092023	09-210-08	**11**	9-21-23
SS-F-009-092023	09-210-09	**13**	9-21-23
SS-F-010-092023	09-210-10	**8**	9-21-23
EB-F-001-092023	09-210-11	**12**	9-21-23
EB-F-002-092023	09-210-12	**11**	9-21-23
EB-F-003-092023	09-210-13	**7**	9-21-23
EB-F-004-092023	09-210-14	**11**	9-21-23
SS-P-001-092023	09-210-15	**5**	9-21-23
SS-P-002-092023	09-210-16	**5**	9-21-23
SS-P-003-092023	09-210-17	**9**	9-21-23
SS-P-004-092023	09-210-18	**5**	9-21-23
EB-P-001-092023	09-210-19	**7**	9-21-23
DUP-014-092023	09-210-20	**6**	9-21-23
DUP-015-092023	09-210-21	**13**	9-21-23
DUP-016-092023	09-210-22	**11**	9-21-23
DUP-017-092023	09-210-23	**9**	9-21-23
SS-K-008-092023	09-210-24	**6**	9-21-23
SS-K-009-092023	09-210-25	**6**	9-21-23

This report pertains to the samples analyzed in accordance with the chain of custody,
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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Branden Joy

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-210

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Lead (6010)				% Moisture
1	SS-F-001-092023	9/20/23	1200	S	1																		X				X
2	SS-F-002-092023	↓	1205	S	1																		X				↓
3	SS-F-003-092023		1210	S	1																		X				
4	SS-F-004-092023		1215	S	1																		X				
5	SS-F-005-092023		1220	S	1																		X				
6	SS-F-006-092023		1225	S	1																		X				
7	SS-F-007-092023		1230	S	1																		X				
8	SS-F-008-092023		1235	S	1																		X				
9	SS-F-009-092023		1240	S	1																		X				
10	SS-F-010-092023	↓	1245	S	1																		X				

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	Branden Joy	Arcadis	9/21/23	1030	
Received		DSE	9/21/23	1030	
Relinquished					
Received					
Relinquished					
Received					Data Package: Standard ☐ Level III ☐ Level IV ☐
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00083
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Branden Joy

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-210

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Lead (6010)	MS/MSD			% Moisture
	~~SS-F-0~~																										
11	EB-F-001-092023	9/20/23	1250	S	1																	X				X
12	EB-F-002-092023	↓	1255	S	1																	X				↓
13	EB-F-003-092023		1300	S	1																	X				
14	EB-F-004-092023		1305	S	1																	X				
15	SS-P-001-092023		1400	S	1																	X				
16	SS-P-002-092023		1405	S	3																	X	X			
17	SS-P-003-092023		1410	S	1																	X				
18	SS-P-004-092023		1415	S	1																	X				
19	(BJ) ~~SS~~ EB-P-001-092023	↓	1420	S	1																	X				↓

	Signature	Company	Date	Time
Relinquished	Branden Joy	Arcadis	9/21/23	1030
Received				
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Branden Joy

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day (Rush)
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-210

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Lead (6010)	PCBs (8082)	DRO/HO by NWTPH-Dx		% Moisture
20	DUP-014-092023	9/20/23	-	S	1																		X				X
21	DUP-015-092023	↓	-	S	1																		X				↓
22	DUP-016-092023		-	S	1																		X				
23	DUP-017-092023		-	S	1																		X				
24	SS-K-008-092023		1600	S	1																		X	X	X		
25	SS-K-009-092023	↓	1605	S	1																		X	X	X		
26	RS-010-092023	9/20/23	1100	W	1																		X				X

	Signature	Company	Date	Time
Relinquished	Branden Joy	Arcadis	9/21/23	1030
Received				
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 26, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-238

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 25, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 26, 2023
Samples Submitted: September 25, 2023
Laboratory Reference: 2309-238
Project: 30092874.00003

Case Narrative

Samples were collected on September 22, 23 and 24, 2023 and received by the laboratory on September 25, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 26, 2023
Samples Submitted: September 25, 2023
Laboratory Reference: 2309-238
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-F-007-092423**					
Laboratory ID:	09-238-01					
Lead	**18**	5.5	EPA 6010D	9-25-23	9-25-23	
Client ID:	**SS-F-011-092423**					
Laboratory ID:	09-238-02					
Lead	**120**	5.8	EPA 6010D	9-25-23	9-25-23	
Client ID:	**SS-F-012-092423**					
Laboratory ID:	09-238-03					
Lead	**88**	5.3	EPA 6010D	9-25-23	9-25-23	
Client ID:	**SS-F-013-092423**					
Laboratory ID:	09-238-04					
Lead	**150**	5.4	EPA 6010D	9-25-23	9-25-23	
Client ID:	**SS-F-014-092423**					
Laboratory ID:	09-238-05					
Lead	**94**	5.6	EPA 6010D	9-25-23	9-25-23	
Client ID:	**SS-F-015-092423**					
Laboratory ID:	09-238-06					
Lead	**47**	6.0	EPA 6010D	9-25-23	9-25-23	
Client ID:	**SS-F-016-092423**					
Laboratory ID:	09-238-07					
Lead	**65**	5.5	EPA 6010D	9-25-23	9-25-23	
Client ID:	**DUP-018-092423**					
Laboratory ID:	09-238-08					
Lead	**10**	5.4	EPA 6010D	9-25-23	9-25-23	

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Date of Report: September 26, 2023
Samples Submitted: September 25, 2023
Laboratory Reference: 2309-238
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-019-092423**					
Laboratory ID:	09-238-09					
Lead	**6.0**	5.5	EPA 6010D	9-25-23	9-25-23	
Client ID:	**EB-H-021-092323**					
Laboratory ID:	09-238-11					
Lead	**ND**	5.6	EPA 6010D	9-25-23	9-25-23	
Client ID:	**SS-H-026-092323**					
Laboratory ID:	09-238-12					
Lead	**79**	5.9	EPA 6010D	9-25-23	9-25-23	
Client ID:	**SS-H-027-092323**					
Laboratory ID:	09-238-13					
Lead	**52**	5.7	EPA 6010D	9-25-23	9-25-23	
Client ID:	**EB-H-022-092423**					
Laboratory ID:	09-238-14					
Lead	**8.6**	5.4	EPA 6010D	9-25-23	9-25-23	
Client ID:	**EB-H-023-092423**					
Laboratory ID:	09-238-15					
Lead	**14**	5.4	EPA 6010D	9-25-23	9-25-23	
Client ID:	**EB-H-024-092423**					
Laboratory ID:	09-238-16					
Lead	**90**	5.5	EPA 6010D	9-25-23	9-25-23	
Client ID:	**EB-H-025-092423**					
Laboratory ID:	09-238-17					
Lead	**100**	5.5	EPA 6010D	9-25-23	9-25-23	

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Date of Report: September 26, 2023
Samples Submitted: September 25, 2023
Laboratory Reference: 2309-238
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-H-028-092423**					
Laboratory ID:	09-238-18					
Lead	**100**	5.6	EPA 6010D	9-25-23	9-25-23	
Client ID:	**EB-F-005-092423**					
Laboratory ID:	09-238-19					
Lead	**45**	5.4	EPA 6010D	9-25-23	9-25-23	
Client ID:	**EB-F-006-092423**					
Laboratory ID:	09-238-20					
Lead	**38**	5.4	EPA 6010D	9-25-23	9-25-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: September 26, 2023
Samples Submitted: September 25, 2023
Laboratory Reference: 2309-238
Project: 30092874.00003

TOTAL LEAD
EPA 6010D
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0925SM2					
Lead	**ND**	5.0	EPA 6010D	9-25-23	9-25-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-238-15										
	ORIG	DUP									
Lead	**12.7**	**11.2**	NA	NA		NA		NA	13	20	
MATRIX SPIKES											
Laboratory ID:	09-238-15										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**254**	**258**	250	250	12.7	**97**	**98**	75-125	1	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 26, 2023
Samples Submitted: September 25, 2023
Laboratory Reference: 2309-238
Project: 30092874.00003

TOTAL LEAD
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RS-011-092423**					
Laboratory ID:	09-238-10					
Lead	**ND**	1.1	EPA 200.8	9-25-23	9-25-23	

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Date of Report: September 26, 2023
Samples Submitted: September 25, 2023
Laboratory Reference: 2309-238
Project: 30092874.00003

TOTAL LEAD
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0925WM1					
Lead	**ND**	1.1	EPA 200.8	9-25-23	9-25-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-238-10										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-238-10										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**97.1**	**95.3**	111	111	ND	**88**	**86**	75-125	2	20	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 26, 2023
Samples Submitted: September 25, 2023
Laboratory Reference: 2309-238
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
EB-F-007-092423	09-238-01	**10**	9-25-23
SS-F-011-092423	09-238-02	**14**	9-25-23
SS-F-012-092423	09-238-03	**6**	9-25-23
SS-F-013-092423	09-238-04	**8**	9-25-23
SS-F-014-092423	09-238-05	**10**	9-25-23
SS-F-015-092423	09-238-06	**17**	9-25-23
SS-F-016-092423	09-238-07	**9**	9-25-23
DUP-018-092423	09-238-08	**8**	9-25-23
DUP-019-092423	09-238-09	**9**	9-25-23
EB-H-021-092323	09-238-11	**10**	9-25-23
SS-H-026-092323	09-238-12	**15**	9-25-23
SS-H-027-092323	09-238-13	**13**	9-25-23
EB-H-022-092423	09-238-14	**8**	9-25-23
EB-H-023-092423	09-238-15	**7**	9-25-23
EB-H-024-092423	09-238-16	**9**	9-25-23
EB-H-025-092423	09-238-17	**9**	9-25-23
SS-H-028-092423	09-238-18	**10**	9-25-23
EB-F-005-092423	09-238-19	**8**	9-25-23
EB-F-006-092423	09-238-20	**7**	9-25-23

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 3 (PB)

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.000B3
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Branden Joy

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day (Rush) ☐ 2 Days ☐ 3 Days ☐ Standard (7 Days) ☐ _____ (other)

Laboratory Number: 09-238

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Lead (6010)				% Moisture
1	EB-F-007-092423 (SS→BS)	9/24/23	1610	S	1																		X				X
2	(BA) EB-F-008→SS-F-011-092423		1615	S	1																		X				
3	(BJ) EB-F-009→SS-F-012-092423		1620	S	1																		X				
4	(BJ) EB-F-010→SS-F-013-092423		1625	S	1																		X				
5	SS-F-014-092423		1630	S	1																		X				
6	SS-F-015-092423		1635	S	1																		X				
7	SS-F-016-092423		1640	S	1																		X				
8	DUP-018-092423		-	S	1																		X				
9	DUP-019-092423		-	S	1																		X				
10	RS-011-092423	9/24/23	1130	(BJ) SW	1																		X				

	Signature	Company	Date	Time
Relinquished	Branden Joy	Arcadis	9/24/23	1900
Received		Arcadis	9/24/23	1900
Relinquished		Arcadis	9/24/23	2130
Received		OSE	9/25/23	1047
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

2 DB

Page 1 of 3

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis

Project Number: 30092874.00003

Project Name: USCG Burrows Island

Project Manager: Paul McCullough

Sampled by: Branden Joy

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☒ 1 Day (Rush)
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 09-238

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Lead (6010)	MS/MSD			% Moisture
11	EB-H-021-092323	9/23/23	1200	S	1																		X				
12	SS-H-026-092323	9/23/23	1600	S	1																		X				
13	SS-H-027-092323	9/23/23	1605	S	1																		X				
14	EB-H-022-092423	9/24/23	1200	S	3																		X	X			
15	EB-H-023-092423		1205	S	3																		X	X			
16	EB-H-024-092423		1210	S	1																		X				
17	EB-H-025-092423		1215	S	1																		X				
18	SS-H-028-092423		1220	S	1																		X				
19	EB-F-005-092423		1600	S	1																		X				
20	EB-F-006-092423		1605	S	1																		X				

	Signature	Company	Date	Time
Relinquished	Branden Joy	Arcadis	9/24/23	1900
Received		Arcadis	9/24/23	1900
Relinquished		Arcadis	9/24/23	2130
Received		OSE	9/25/23	1047
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Branden Joy

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☒ 1 Day (Rush)
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 09-238

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	TCLP (1311) Lead only				% Moisture
21	WC-012-092223	9/22/23	1200	Wood	1																		X				
22	WC-013-092423	9/24/23	1100	wood	1																		X				

	Signature	Company	Date	Time
Relinquished	Branden Joy	Arcadis	9/24/23	1900
Received		Arcadis	9/24/23	1900
Relinquished		Arcadis	9/24/23	2130
Received		OSE	9/25/23	1041
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 27, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-274

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 26, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 27, 2023
Samples Submitted: September 26, 2023
Laboratory Reference: 2309-274
Project: 30092874.00003

Case Narrative

Samples were collected on September 25, 2023 and received by the laboratory on September 26, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 27, 2023
Samples Submitted: September 26, 2023
Laboratory Reference: 2309-274
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-H-029-092523**					
Laboratory ID:	09-274-01					
Lead	**47**	5.7	EPA 6010D	9-26-23	9-26-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 27, 2023
Samples Submitted: September 26, 2023
Laboratory Reference: 2309-274
Project: 30092874.00003

TOTAL LEAD
EPA 6010D
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926SM2					
Lead	**ND**	5.0	EPA 6010D	9-26-23	9-26-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-274-01										
	ORIG	DUP									
Lead	**41.5**	**35.5**	NA	NA		NA		NA	16	20	
MATRIX SPIKES											
Laboratory ID:	09-274-01										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**266**	**265**	250	250	41.5	**90**	**89**	75-125	1	20	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 27, 2023
Samples Submitted: September 26, 2023
Laboratory Reference: 2309-274
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-H-029-092523	09-274-01	**12**	9-26-23

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis

Project Number: ~~3004~~ 30092874.00003

Project Name: USCG Burrows Island

Project Manager: Paul McCullough

Sampled by: Branden Joy

Turnaround Request (in working days)

(Check One) Rush

- ☐ Same Day
- ☒ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 09-274

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Lead (6010)				% Moisture
1	SS-H-029-092523	9/25/23	1200	S	1																		X				X

	Signature	Company	Date	Time
Relinquished	Branden Joy	Arcadis	9/26/23	1048
Received	Nichelle Bolton	OSE	9/26/23	1048
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 13, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-061

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 11, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

Case Narrative

Samples were collected on September 9 and 10, 2023 and received by the laboratory on September 11, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Lead EPA 6010D Analysis

The duplicate RPD for Lead is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Lead are outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 96%.

The Matrix Spike/Matrix Spike Duplicate RPD for Lead is outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-E-001-090923**					
Laboratory ID:	09-061-01					
Lead	**ND**	5.6	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-E-002-090923**					
Laboratory ID:	09-061-02					
Lead	**34**	5.4	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-E-003-090923**					
Laboratory ID:	09-061-03					
Lead	**35**	5.7	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-E-004-090923**					
Laboratory ID:	09-061-04					
Lead	**ND**	5.3	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-E-005-090923**					
Laboratory ID:	09-061-05					
Lead	**21**	5.3	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-E-006-090923**					
Laboratory ID:	09-061-06					
Lead	**58**	5.3	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-E-007-090923**					
Laboratory ID:	09-061-07					
Lead	**82**	5.2	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-E-008-090923**					
Laboratory ID:	09-061-08					
Lead	**28**	5.4	EPA 6010D	9-11-23	9-12-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-E-009-090923**					
Laboratory ID:	09-061-09					
Lead	**39**	5.3	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-E-010-090923**					
Laboratory ID:	09-061-10					
Lead	**28**	5.5	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-E-011-090923**					
Laboratory ID:	09-061-11					
Lead	**44**	5.6	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-E-012-090923**					
Laboratory ID:	09-061-12					
Lead	**12**	5.4	EPA 6010D	9-11-23	9-12-23	
Client ID:	**EB-E-001-090923**					
Laboratory ID:	09-061-13					
Lead	**ND**	5.5	EPA 6010D	9-11-23	9-12-23	
Client ID:	**EB-E-002-090923**					
Laboratory ID:	09-061-14					
Lead	**ND**	5.3	EPA 6010D	9-11-23	9-12-23	
Client ID:	**EB-E-003-090923**					
Laboratory ID:	09-061-15					
Lead	**9.9**	5.2	EPA 6010D	9-11-23	9-12-23	
Client ID:	**EB-E-004-090923**					
Laboratory ID:	09-061-16					
Lead	**13**	5.7	EPA 6010D	9-11-23	9-12-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-E-005-090923**					
Laboratory ID:	09-061-17					
Lead	**6.3**	5.4	EPA 6010D	9-11-23	9-12-23	
Client ID:	**EB-E-006-090923**					
Laboratory ID:	09-061-18					
Lead	**61**	5.4	EPA 6010D	9-11-23	9-11-23	
Client ID:	**EB-E-007-090923**					
Laboratory ID:	09-061-19					
Lead	**21**	5.6	EPA 6010D	9-11-23	9-12-23	
Client ID:	**EB-E-008-090923**					
Laboratory ID:	09-061-20					
Lead	**100**	6.0	EPA 6010D	9-11-23	9-12-23	
Client ID:	**EB-E-009-090923**					
Laboratory ID:	09-061-21					
Lead	**91**	5.8	EPA 6010D	9-11-23	9-12-23	
Client ID:	**DUP-001-090923**					
Laboratory ID:	09-061-23					
Lead	**11**	5.4	EPA 6010D	9-11-23	9-12-23	
Client ID:	**DUP-002-090923**					
Laboratory ID:	09-061-24					
Lead	**98**	6.2	EPA 6010D	9-11-23	9-12-23	
Client ID:	**EB-N-001-090923**					
Laboratory ID:	09-061-25					
Lead	**8.4**	5.2	EPA 6010D	9-11-23	9-12-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-N-001-090923**					
Laboratory ID:	09-061-26					
Lead	**11**	5.2	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-N-002-090923**					
Laboratory ID:	09-061-27					
Lead	**9.9**	5.2	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-N-003-090923**					
Laboratory ID:	09-061-28					
Lead	**14**	5.2	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-N-004-090923**					
Laboratory ID:	09-061-29					
Lead	**20**	5.2	EPA 6010D	9-11-23	9-12-23	
Client ID:	**DUP-003-090923**					
Laboratory ID:	09-061-30					
Lead	**12**	5.2	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-M-001-091023**					
Laboratory ID:	09-061-34					
Lead	**36**	5.4	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-M-002-091023**					
Laboratory ID:	09-061-35					
Lead	**58**	5.5	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-M-003-091023**					
Laboratory ID:	09-061-36					
Lead	**53**	5.5	EPA 6010D	9-11-23	9-12-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-M-004-091023**					
Laboratory ID:	09-061-37					
Lead	**47**	5.8	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-M-005-091023**					
Laboratory ID:	09-061-38					
Lead	**92**	6.1	EPA 6010D	9-11-23	9-12-23	
Client ID:	**SS-M-006-091023**					
Laboratory ID:	09-061-39					
Lead	**100**	6.2	EPA 6010D	9-11-23	9-12-23	
Client ID:	**EB-M-001-091023**					
Laboratory ID:	09-061-40					
Lead	**84**	5.6	EPA 6010D	9-11-23	9-12-23	
Client ID:	**EB-M-002-091023**					
Laboratory ID:	09-061-41					
Lead	**24**	5.4	EPA 6010D	9-11-23	9-12-23	
Client ID:	**EB-M-003-091023**					
Laboratory ID:	09-061-42					
Lead	**44**	5.4	EPA 6010D	9-11-23	9-12-23	
Client ID:	**DUP-004-091023**					
Laboratory ID:	09-061-43					
Lead	**72**	5.5	EPA 6010D	9-11-23	9-12-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

TOTAL LEAD
EPA 6010D
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0911SM1					
Lead	**ND**	5.0	EPA 6010D	9-11-23	9-11-23	
Laboratory ID:	MB0911SM3					
Lead	**ND**	5.0	EPA 6010D	9-11-23	9-12-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-061-18										
	ORIG	DUP									
Lead	**56.3**	**62.6**	NA	NA		NA		NA	11	20	
Laboratory ID:	09-061-42										
	ORIG	DUP									
Lead	**40.5**	**29.2**	NA	NA		NA		NA	32	20	K
MATRIX SPIKES											
Laboratory ID:	09-061-18										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**377**	**297**	250	250	56.3	**128**	**96**	75-125	24	20	V,W
Laboratory ID:	09-061-42										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**255**	**253**	250	250	40.5	**86**	**85**	75-125	1	20	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

TOTAL LEAD
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RS-001-090923**					
Laboratory ID:	09-061-31					
Lead	**ND**	1.1	EPA 200.8	9-13-23	9-13-23	
Client ID:	**RS-002-091023**					
Laboratory ID:	09-061-32					
Lead	**ND**	1.1	EPA 200.8	9-13-23	9-13-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

TOTAL LEAD
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0913WM1					
Lead	**ND**	1.1	EPA 200.8	9-13-23	9-13-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-061-31										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-061-31										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**115**	**118**	111	111	ND	**104**	**106**	75-125	2	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RS-001-090923**					
Laboratory ID:	09-061-31					
Diesel Range Organics	**ND**	0.21	NWTPH-Dx	9-12-23	9-12-23	
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	9-12-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**RS-002-091023**					
Laboratory ID:	09-061-32					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	9-12-23	9-12-23	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	9-12-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*113*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0912W1					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	9-12-23	9-12-23	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	9-12-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB0912W1										
	ORIG	DUP									
Diesel Fuel #2	**0.436**	**0.323**	NA	NA		NA		NA	30	40	
Surrogate:											
o-Terphenyl						*84*	*75*	*50-150*			

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-M-001-091023**					
Laboratory ID:	09-061-34					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-11-23	9-11-23	
Lube Oil	**56**	54	NWTPH-Dx	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*68*	*50-150*				
Client ID:	**SS-M-002-091023**					
Laboratory ID:	09-061-35					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-11-23	9-11-23	
Lube Oil Range Organics	**ND**	55	NWTPH-Dx	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*67*	*50-150*				
Client ID:	**SS-M-003-091023**					
Laboratory ID:	09-061-36					
Diesel Range Organics	**31**	28	NWTPH-Dx	9-11-23	9-11-23	
Lube Oil	**160**	56	NWTPH-Dx	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*71*	*50-150*				
Client ID:	**SS-M-004-091023**					
Laboratory ID:	09-061-37					
Diesel Range Organics	**31**	29	NWTPH-Dx	9-11-23	9-11-23	
Lube Oil	**93**	58	NWTPH-Dx	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*76*	*50-150*				
Client ID:	**SS-M-005-091023**					
Laboratory ID:	09-061-38					
Diesel Range Organics	**39**	30	NWTPH-Dx	9-11-23	9-11-23	
Lube Oil	**170**	61	NWTPH-Dx	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**SS-M-006-091023**					
Laboratory ID:	09-061-39					
Diesel Range Organics	**77**	31	NWTPH-Dx	9-11-23	9-11-23	
Lube Oil	**270**	62	NWTPH-Dx	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*65*	*50-150*				

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-M-001-091023**					
Laboratory ID:	09-061-40					
Diesel Range Organics	**50**	28	NWTPH-Dx	9-11-23	9-11-23	
Lube Oil	**160**	56	NWTPH-Dx	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*72*	*50-150*				
Client ID:	**EB-M-002-091023**					
Laboratory ID:	09-061-41					
Diesel Range Organics	**770**	27	NWTPH-Dx	9-11-23	9-11-23	
Lube Oil Range Organics	**350**	54	NWTPH-Dx	9-11-23	9-11-23	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*81*	*50-150*				
Client ID:	**EB-M-003-091023**					
Laboratory ID:	09-061-42					
Diesel Range Organics	**79**	27	NWTPH-Dx	9-11-23	9-11-23	
Lube Oil Range Organics	**60**	54	NWTPH-Dx	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				
Client ID:	**DUP-004-091023**					
Laboratory ID:	09-061-43					
Diesel Range Organics	**98**	28	NWTPH-Dx	9-11-23	9-11-23	
Lube Oil Range Organics	**76**	55	NWTPH-Dx	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0911S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-11-23	9-11-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	09-061-34									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	40	
Lube Oil	**52.3**	**51.8**	NA	NA		NA	NA	1	40	
Surrogate:										
o-Terphenyl						*68* *70*	*50-150*			

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**RS-001-090923**					
Laboratory ID:	09-061-31					
Aroclor 1016	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1221	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1232	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1242	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1248	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1254	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1260	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1262	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1268	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*88*	*55-138*				
Client ID:	**RS-002-091023**					
Laboratory ID:	09-061-32					
Aroclor 1016	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1221	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1232	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1242	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1248	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1254	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1260	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1262	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Aroclor 1268	**ND**	0.047	EPA 8082A	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*92*	*55-138*				

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0913W1					
Aroclor 1016	**ND**	0.025	EPA 8082A	9-13-23	9-13-23	
Aroclor 1221	**ND**	0.025	EPA 8082A	9-13-23	9-13-23	
Aroclor 1232	**ND**	0.025	EPA 8082A	9-13-23	9-13-23	
Aroclor 1242	**ND**	0.025	EPA 8082A	9-13-23	9-13-23	
Aroclor 1248	**ND**	0.025	EPA 8082A	9-13-23	9-13-23	
Aroclor 1254	**ND**	0.025	EPA 8082A	9-13-23	9-13-23	
Aroclor 1260	**ND**	0.025	EPA 8082A	9-13-23	9-13-23	
Aroclor 1262	**ND**	0.025	EPA 8082A	9-13-23	9-13-23	
Aroclor 1268	**ND**	0.025	EPA 8082A	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*90*	*55-138*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0913W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.486**	**0.486**	0.500	0.500	N/A	**97**	**97**	66-120	0	16	
Surrogate:											
DCB						*97*	*95*	*55-138*			

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-E-001-090923	09-061-01	**10**	9-11-23
SS-E-002-090923	09-061-02	**8**	9-11-23
SS-E-003-090923	09-061-03	**13**	9-11-23
SS-E-004-090923	09-061-04	**5**	9-11-23
SS-E-005-090923	09-061-05	**6**	9-11-23
SS-E-006-090923	09-061-06	**5**	9-11-23
SS-E-007-090923	09-061-07	**4**	9-11-23
SS-E-008-090923	09-061-08	**8**	9-11-23
SS-E-009-090923	09-061-09	**6**	9-11-23
SS-E-010-090923	09-061-10	**8**	9-11-23
SS-E-011-090923	09-061-11	**10**	9-11-23
SS-E-012-090923	09-061-12	**7**	9-11-23
EB-E-001-090923	09-061-13	**9**	9-11-23
EB-E-002-090923	09-061-14	**6**	9-11-23
EB-E-003-090923	09-061-15	**5**	9-11-23
EB-E-004-090923	09-061-16	**12**	9-11-23
EB-E-005-090923	09-061-17	**8**	9-11-23
EB-E-006-090923	09-061-18	**8**	9-11-23
EB-E-007-090923	09-061-19	**10**	9-11-23
EB-E-008-090923	09-061-20	**17**	9-11-23
EB-E-009-090923	09-061-21	**14**	9-11-23
DUP-001-090923	09-061-23	**7**	9-11-23
DUP-002-090923	09-061-24	**19**	9-11-23
EB-N-001-090923	09-061-25	**4**	9-11-23
SS-N-001-090923	09-061-26	**4**	9-11-23
SS-N-002-090923	09-061-27	**5**	9-11-23
SS-N-003-090923	09-061-28	**5**	9-11-23

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-N-004-090923	09-061-29	**4**	9-11-23
DUP-003-090923	09-061-30	**4**	9-11-23
SS-M-001-091023	09-061-34	**7**	9-11-23
SS-M-002-091023	09-061-35	**9**	9-11-23
SS-M-003-091023	09-061-36	**10**	9-11-23
SS-M-004-091023	09-061-37	**13**	9-11-23
SS-M-005-091023	09-061-38	**18**	9-11-23
SS-M-006-091023	09-061-39	**19**	9-11-23
EB-M-001-091023	09-061-40	**11**	9-11-23
EB-M-002-091023	09-061-41	**8**	9-11-23
EB-M-003-091023	09-061-42	**7**	9-11-23
DUP-004-091023	09-061-43	**9**	9-11-23

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 2 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead by USEPA method 6010				% Moisture
1	SS-E-001-090923	9/9/23	1115	S	1																		X				
2	SS-E-002-090923		1125	S	1																		X				
3	SS-E-003-090923		1135	S	1																		X				
4	SS-E-004-090923		1145	S	1																		X				
5	SS-E-005-090923		1155	S	1																		X				
6	SS-E-006-090923		1205	S	1																		X				
7	SS-E-007-090923		1215	S	1																		X				
8	SS-E-008-090923		1225	S	1																		X				
9	SS-E-009-090923		1235	S	1																		X				
10	SS-E-010-090923		1245	S	1																		X				

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received	[signature]	OSE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Report Sample #33 on a separate report.

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.0003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nzunini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 2 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead - USEPA 6010		MS/MSD		% Moisture
11	SS-E-011-090923	9/9/23	1255	S	1																	X				0
12	SS-E-012-090923		1305	S	1																	X				
13	EB-E-001-090923		1320	S	1																	X				
14	EB-E-002-090923		1330	S	1																	X				
15	EB-E-003-090923		1340	S	1																	X				
16	EB-E-004-090923		1350	S	1																	X				
17	EB-E-005-090923		1400	S	1																	X				
18	EB-E-006-090923		1410	S	1 2 PB																	X		X		
19	EB-E-007-090923		1420	S	1																	X				
20	EB-E-008-090923		1430	S	1																	X				

	Signature	Company	Date	Time
Relinquished	[signature]	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received	[signature]	OSE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.0003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 2 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead using 6010		MS/MSD		% Moisture
21	EB-E-009-090923	9/9/23	1440	S	1																	X				10
22	~~EB-E-006-090923 MS/MSD~~		1410	S	1																	X				NO
23	DUP-001-090923		—	S	1																	X				
24	DUP-002-090923		—	S	1																	X				
25	EB-N-001-090923		1450	S	1																	X				
26	SS-N-001-090923		1452	S	1																	X				
27	SS-N-002-090923		1454	S	1																	X				
28	SS-N-003-090923		1456	S	1																	X				
29	SS-N-004-090923		1458	S	1																	X				
30	DUP-003-090923		—	S	1																	X				

	Signature	Company	Date	Time
Relinquished	[signature]	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received	[signature]	ONE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) RUSH
☐ Same Day ☒ 2 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
31	RS-001-090923	9/9/23	2030	W	4
32	RS-002-091023	9/10/23	1420	W	4
33/34	WC-001-091023	"	1210	S	5
34/35	~~SS-001~~ TN SS-M-001-091023	"	0850	S	1
35/36	SS-M-002-091023	"	0855	S	1
36/37	SS-M-003-091023	"	0900	S	1
37/38	SS-M-004-091023	"	0905	S	1
38	SS-M-005-091023	"	0910	S	1
39	SS-M-006-091023	"	0915	S	1
40	EB-M-001-091023	"	0920	S	1

Analysis	31	32	33/34	34/35	35/36	36/37	37/38	38	39	40
NWTPH-HCID										
NWTPH-Gx/BTEX (8021☐ 8260☐)										
NWTPH-Gx										
NWTPH-Dx (SG Clean-up☐)										
Volatiles 8260			X							
Halogenated Volatiles 8260										
EDB EPA 8011 (Waters Only)										
Semivolatiles 8270/SIM (with low-level PAHs)			X							
PAHs 8270/SIM (low-level)										
PCBs 8082			X							
Organochlorine Pesticides 8081										
Organophosphorus Pesticides 8270/SIM										
Chlorinated Acid Herbicides 8151										
Total ~~RCRA~~ Metals (6010/7471 see comments)			X							
Total ~~MTCA~~ Metals										
TCLP Metals 6010/7471 ~~for total metals analyses~~			X							
HEM (oil and grease) 1664										
Lead USEPA 6010	X	X		X	X	X	X	X	X	X
DRO & HCID NWTPH-Dx	X	X		X	X	X	X	X	X	X
PCBs	X	X								
GRO by NWTPH-Gx		ND	X							
% Moisture			D							

MS/MSD

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received		OSE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Total metals 6010/7471 For: arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver, Copper, Nickle, Zinc
SAMPLE #33 on a separate report

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead USEPA 6010	DRO and HO by NWTPH-DX		MS/MSD	% Moisture
41	EB-M-002-091023	9/10/23	0925	S	1																		X	X			10
42	EB-M-003-091023	9/10/23	0930	S	~~1~~ 2 DS																		X	X		X	
~~43~~	~~EB-M-003-091023 MS/MSD~~	~~9/10/23~~	~~0930~~	~~S~~	~~1~~																		X	X			
43	Dup-004-091023	9/10/23	-	S	1																		X	X			
~~44~~ DB																											

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received		OSE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 19, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-099

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 13, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

Case Narrative

Samples were collected on September 11, 2023 and received by the laboratory on September 13, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-K-001-091123**					
Laboratory ID:	09-099-01					
Diesel Range Organics	**ND**	26	NWTPH-Dx	9-13-23	9-13-23	
Mineral Oil Range	**ND**	26	NWTPH-Dx	9-13-23	9-13-23	
Lube Oil Range Organics	**ND**	53	NWTPH-Dx	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				
Client ID:	**SS-K-001-091123**					
Laboratory ID:	09-099-02					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-13-23	9-13-23	
Mineral Oil Range	**ND**	27	NWTPH-Dx	9-13-23	9-13-23	
Lube Oil Range Organics	**61**	53	NWTPH-Dx	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**SS-K-002-091123**					
Laboratory ID:	09-099-03					
Diesel Range Organics	**ND**	28	NWTPH-Dx	9-13-23	9-13-23	
Mineral Oil Range	**ND**	33	NWTPH-Dx	9-13-23	9-13-23	U1
Lube Oil Range Organics	**130**	56	NWTPH-Dx	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*73*	*50-150*				
Client ID:	**SS-K-003-091123**					
Laboratory ID:	09-099-04					
Diesel Range Organics	**ND**	35	NWTPH-Dx	9-13-23	9-13-23	U1
Mineral Oil Range	**ND**	45	NWTPH-Dx	9-13-23	9-13-23	U1
Lube Oil	**500**	55	NWTPH-Dx	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**SS-K-004-091123**					
Laboratory ID:	09-099-05					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-13-23	9-13-23	
Mineral Oil Range	**ND**	27	NWTPH-Dx	9-13-23	9-13-23	
Lube Oil Range Organics	**98**	53	NWTPH-Dx	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*80*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-K-005-091123**					
Laboratory ID:	09-099-06					
Diesel Range Organics	**29**	27	NWTPH-Dx	9-13-23	9-13-23	
Mineral Oil Range	**ND**	39	NWTPH-Dx	9-13-23	9-13-23	U1
Lube Oil Range Organics	**140**	54	NWTPH-Dx	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*71*	*50-150*				
Client ID:	**SS-K-006-091123**					
Laboratory ID:	09-099-07					
Diesel Range Organics	**ND**	28	NWTPH-Dx	9-13-23	9-13-23	
Mineral Oil Range	**ND**	28	NWTPH-Dx	9-13-23	9-13-23	
Lube Oil Range Organics	**ND**	56	NWTPH-Dx	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*60*	*50-150*				
Client ID:	**SS-K-007-091123**					
Laboratory ID:	09-099-08					
Diesel Range Organics	**ND**	26	NWTPH-Dx	9-13-23	9-13-23	
Mineral Oil Range	**ND**	26	NWTPH-Dx	9-13-23	9-13-23	
Lube Oil	**58**	52	NWTPH-Dx	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*81*	*50-150*				
Client ID:	**DUP-005-091123**					
Laboratory ID:	09-099-09					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-13-23	9-13-23	
Mineral Oil Range	**ND**	27	NWTPH-Dx	9-13-23	9-13-23	
Lube Oil	**65**	54	NWTPH-Dx	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0913S3					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-13-23	9-13-23	
Mineral Oil Range	**ND**	25	NWTPH-Dx	9-13-23	9-13-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-099-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Mineral Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Surrogate:											
o-Terphenyl						*87*	*83*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**OS-K-001-091123**					
Laboratory ID:	09-099-10					
Diesel Fuel #2	**1300**	27	NWTPH-Dx	9-18-23	9-18-23	
Lube Oil Range Organics	**ND**	63	NWTPH-Dx	9-18-23	9-18-23	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-18-23	9-18-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-155-05										
	ORIG	DUP									
Diesel Range Organics	**31.9**	**27.0**	NA	NA		NA		NA	17	40	
Lube Oil	**562**	**543**	NA	NA		NA		NA	3	40	
Surrogate:											
o-Terphenyl						*78*	*73*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-K-001-091123**					
Laboratory ID:	09-099-01					
Lead	**ND**	5.3	EPA 6010D	9-13-23	9-14-23	
Client ID:	**SS-K-001-091123**					
Laboratory ID:	09-099-02					
Lead	**38**	5.3	EPA 6010D	9-13-23	9-14-23	
Client ID:	**SS-K-002-091123**					
Laboratory ID:	09-099-03					
Lead	**13**	5.6	EPA 6010D	9-13-23	9-14-23	
Client ID:	**SS-K-003-091123**					
Laboratory ID:	09-099-04					
Lead	**27**	5.5	EPA 6010D	9-13-23	9-14-23	
Client ID:	**SS-K-004-091123**					
Laboratory ID:	09-099-05					
Lead	**ND**	5.3	EPA 6010D	9-13-23	9-14-23	
Client ID:	**SS-K-005-091123**					
Laboratory ID:	09-099-06					
Lead	**10**	5.4	EPA 6010D	9-13-23	9-14-23	
Client ID:	**SS-K-006-091123**					
Laboratory ID:	09-099-07					
Lead	**7.4**	5.6	EPA 6010D	9-13-23	9-14-23	
Client ID:	**SS-K-007-091123**					
Laboratory ID:	09-099-08					
Lead	**12**	5.2	EPA 6010D	9-13-23	9-14-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**DUP-005-091123**					
Laboratory ID:	09-099-09					
Lead	**37**	5.4	EPA 6010D	9-13-23	9-14-23	
Client ID:	**OS-K-001-091123**					
Laboratory ID:	09-099-10					
Lead	**ND**	5.3	EPA 6010D	9-13-23	9-14-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

TOTAL LEAD
EPA 6010D
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0913SM3					
Lead	**ND**	5.0	EPA 6010D	9-13-23	9-14-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-097-01										
	ORIG	DUP									
Lead	**9.50**	**8.90**	NA	NA		NA		NA	7	20	
MATRIX SPIKES											
Laboratory ID:	09-097-01										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**249**	**244**	250	250	9.50	**96**	**94**	75-125	2	20	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-K-001-091123**					
Laboratory ID:	09-099-01					
Aroclor 1016	**ND**	0.26	EPA 8082A	9-13-23	9-14-23	
Aroclor 1221	**ND**	0.26	EPA 8082A	9-13-23	9-14-23	
Aroclor 1232	**ND**	0.26	EPA 8082A	9-13-23	9-14-23	
Aroclor 1242	**ND**	0.26	EPA 8082A	9-13-23	9-14-23	
Aroclor 1248	**ND**	0.26	EPA 8082A	9-13-23	9-14-23	
Aroclor 1254	**ND**	0.26	EPA 8082A	9-13-23	9-14-23	
Aroclor 1260	**5.2**	0.26	EPA 8082A	9-13-23	9-14-23	
Aroclor 1262	**ND**	0.26	EPA 8082A	9-13-23	9-14-23	
Aroclor 1268	**ND**	0.26	EPA 8082A	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*70*	*50-127*				
Client ID:	**SS-K-001-091123**					
Laboratory ID:	09-099-02					
Aroclor 1016	**ND**	0.053	EPA 8082A	9-13-23	9-14-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	9-13-23	9-14-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	9-13-23	9-14-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	9-13-23	9-14-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	9-13-23	9-14-23	
Aroclor 1254	**ND**	0.053	EPA 8082A	9-13-23	9-14-23	
Aroclor 1260	**ND**	0.053	EPA 8082A	9-13-23	9-14-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	9-13-23	9-14-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*89*	*50-127*				
Client ID:	**SS-K-002-091123**					
Laboratory ID:	09-099-03					
Aroclor 1016	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1221	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1232	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1242	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1248	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1254	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1260	**0.83**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1262	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1268	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*69*	*50-127*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-K-003-091123**					
Laboratory ID:	09-099-04					
Aroclor 1016	**ND**	0.16	EPA 8082A	9-13-23	9-14-23	
Aroclor 1221	**ND**	0.16	EPA 8082A	9-13-23	9-14-23	
Aroclor 1232	**ND**	0.16	EPA 8082A	9-13-23	9-14-23	
Aroclor 1242	**ND**	0.16	EPA 8082A	9-13-23	9-14-23	
Aroclor 1248	**ND**	0.16	EPA 8082A	9-13-23	9-14-23	
Aroclor 1254	**ND**	0.16	EPA 8082A	9-13-23	9-14-23	
Aroclor 1260	**2.9**	0.16	EPA 8082A	9-13-23	9-14-23	
Aroclor 1262	**ND**	0.16	EPA 8082A	9-13-23	9-14-23	
Aroclor 1268	**ND**	0.16	EPA 8082A	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*78*	*50-127*				
Client ID:	**SS-K-004-091123**					
Laboratory ID:	09-099-05					
Aroclor 1016	**ND**	0.53	EPA 8082A	9-13-23	9-14-23	
Aroclor 1221	**ND**	0.53	EPA 8082A	9-13-23	9-14-23	
Aroclor 1232	**ND**	0.53	EPA 8082A	9-13-23	9-14-23	
Aroclor 1242	**ND**	0.53	EPA 8082A	9-13-23	9-14-23	
Aroclor 1248	**ND**	0.53	EPA 8082A	9-13-23	9-14-23	
Aroclor 1254	**ND**	0.53	EPA 8082A	9-13-23	9-14-23	
Aroclor 1260	**11**	0.53	EPA 8082A	9-13-23	9-14-23	
Aroclor 1262	**ND**	0.53	EPA 8082A	9-13-23	9-14-23	
Aroclor 1268	**ND**	0.53	EPA 8082A	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*80*	*50-127*				
Client ID:	**SS-K-005-091123**					
Laboratory ID:	09-099-06					
Aroclor 1016	**ND**	1.1	EPA 8082A	9-13-23	9-14-23	
Aroclor 1221	**ND**	1.1	EPA 8082A	9-13-23	9-14-23	
Aroclor 1232	**ND**	1.1	EPA 8082A	9-13-23	9-14-23	
Aroclor 1242	**ND**	1.1	EPA 8082A	9-13-23	9-14-23	
Aroclor 1248	**ND**	1.1	EPA 8082A	9-13-23	9-14-23	
Aroclor 1254	**ND**	1.1	EPA 8082A	9-13-23	9-14-23	
Aroclor 1260	**15**	1.1	EPA 8082A	9-13-23	9-14-23	
Aroclor 1262	**ND**	1.1	EPA 8082A	9-13-23	9-14-23	
Aroclor 1268	**ND**	1.1	EPA 8082A	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*80*	*50-127*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-K-006-091123**					
Laboratory ID:	09-099-07					
Aroclor 1016	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1221	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1232	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1242	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1248	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1254	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1260	**0.32**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1262	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Aroclor 1268	**ND**	0.056	EPA 8082A	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*77*	*50-127*				
Client ID:	**SS-K-007-091123**					
Laboratory ID:	09-099-08					
Aroclor 1016	**ND**	0.052	EPA 8082A	9-13-23	9-14-23	
Aroclor 1221	**ND**	0.052	EPA 8082A	9-13-23	9-14-23	
Aroclor 1232	**ND**	0.052	EPA 8082A	9-13-23	9-14-23	
Aroclor 1242	**ND**	0.052	EPA 8082A	9-13-23	9-14-23	
Aroclor 1248	**ND**	0.052	EPA 8082A	9-13-23	9-14-23	
Aroclor 1254	**ND**	0.052	EPA 8082A	9-13-23	9-14-23	
Aroclor 1260	**0.29**	0.052	EPA 8082A	9-13-23	9-14-23	
Aroclor 1262	**ND**	0.052	EPA 8082A	9-13-23	9-14-23	
Aroclor 1268	**ND**	0.052	EPA 8082A	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*77*	*50-127*				
Client ID:	**DUP-005-091123**					
Laboratory ID:	09-099-09					
Aroclor 1016	**ND**	0.054	EPA 8082A	9-13-23	9-14-23	
Aroclor 1221	**ND**	0.054	EPA 8082A	9-13-23	9-14-23	
Aroclor 1232	**ND**	0.054	EPA 8082A	9-13-23	9-14-23	
Aroclor 1242	**ND**	0.054	EPA 8082A	9-13-23	9-14-23	
Aroclor 1248	**ND**	0.054	EPA 8082A	9-13-23	9-14-23	
Aroclor 1254	**ND**	0.054	EPA 8082A	9-13-23	9-14-23	
Aroclor 1260	**ND**	0.054	EPA 8082A	9-13-23	9-14-23	
Aroclor 1262	**ND**	0.054	EPA 8082A	9-13-23	9-14-23	
Aroclor 1268	**ND**	0.054	EPA 8082A	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*82*	*50-127*				

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Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0913S2					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-13-23	9-14-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-13-23	9-14-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-13-23	9-14-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-13-23	9-14-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-13-23	9-14-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-13-23	9-14-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-13-23	9-14-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-13-23	9-14-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-13-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*93*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0913S2										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.500**	**0.481**	0.500	0.500	N/A	**100**	**96**	55-119	4	34	
Surrogate:											
DCB						*94*	*91*	*50-127*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**OS-K-001-091123**					
Laboratory ID:	09-099-10					
Aroclor 1016	**ND**	0.27	EPA 8082A	9-18-23	9-18-23	
Aroclor 1221	**ND**	0.27	EPA 8082A	9-18-23	9-18-23	
Aroclor 1232	**ND**	0.27	EPA 8082A	9-18-23	9-18-23	
Aroclor 1242	**ND**	0.27	EPA 8082A	9-18-23	9-18-23	
Aroclor 1248	**ND**	0.27	EPA 8082A	9-18-23	9-18-23	
Aroclor 1254	**ND**	0.27	EPA 8082A	9-18-23	9-18-23	
Aroclor 1260	**3.5**	0.27	EPA 8082A	9-18-23	9-18-23	
Aroclor 1262	**ND**	0.27	EPA 8082A	9-18-23	9-18-23	
Aroclor 1268	**ND**	0.27	EPA 8082A	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*65*	*50-127*				

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Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*80*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-141-16										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.800**	**0.773**	0.500	0.500	0.436	**73**	**67**	41-121	3	28	
Surrogate:											
DCB						*75*	*70*	*50-127*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-099
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
EB-K-001-091123	09-099-01	**5**	9-13-23
SS-K-001-091123	09-099-02	**6**	9-13-23
SS-K-002-091123	09-099-03	**10**	9-13-23
SS-K-003-091123	09-099-04	**8**	9-13-23
SS-K-004-091123	09-099-05	**6**	9-13-23
SS-K-005-091123	09-099-06	**8**	9-13-23
SS-K-006-091123	09-099-07	**11**	9-13-23
SS-K-007-091123	09-099-08	**4**	9-13-23
DUP-005-091123	09-099-09	**7**	9-13-23
OS-K-001-091123	09-099-10	**6**	9-13-23

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-099

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐) as Mineral Oil	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Lead USEPA 6010	PCBs			% Moisture
1	EB-K-001-091123	9/11/23	1000	S	1				X														X	X			0
2	SS-K-001-091123		1005	S	1				X														X	X			
3	SS-K-002-091123		1010	S	1				X														X	X			
4	SS-K-003-091123		1015	S	1				X														X	X			
5	SS-K-004-091123		1020	S	1				X														X	X			
6	SS-K-005-091123		1025	S	1				X														X	X			
7	SS-K-006-091123		1030	S	1				X														X	X			
8	SS-K-007-091123		1040	S	1				X														X	X			
9	Dup-005-091123		—	S	1				X														X	X			

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/13/23	0600
Received	Courier Service			
Relinquished				
Received		ONE	9/13/23	1130
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☒ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-099

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead USEPA 6010	PCB 8082	DRO/HO NWTPH-Dx		% Moisture
10	OS-K-001-091123	9/11/23	1700	S	1				X DB as Mineral Oil														X	X	X		X

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/13/23	0600
Received	Courier Service			
Relinquished				
Received		OSE	9/13/23	1130
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 15, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.0003
Laboratory Reference No. 2309-126

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 14, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 15, 2023
Samples Submitted: September 14, 2023
Laboratory Reference: 2309-126
Project: 30092874.0003

Case Narrative

Samples were collected on September 13, 2023 and received by the laboratory on September 14, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

NWTPH-Dx Analysis

The sample duplicate had a surrogate recovery slightly below control limits. Because the sample and the duplicate otherwise looked almost identical, it is believed that this was caused by a mis-spiking of the surrogate solution into the duplicate sample. All other quality control parameters were in control; no further action was taken.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 15, 2023
Samples Submitted: September 14, 2023
Laboratory Reference: 2309-126
Project: 30092874.0003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-G-001-091323**					
Laboratory ID:	09-126-01					
Lead	**74**	5.3	EPA 6010D	9-14-23	9-15-23	
Client ID:	**SS-G-002-091323**					
Laboratory ID:	09-126-02					
Lead	**96**	5.5	EPA 6010D	9-14-23	9-15-23	
Client ID:	**SS-G-003-091323**					
Laboratory ID:	09-126-03					
Lead	**130**	5.3	EPA 6010D	9-14-23	9-15-23	
Client ID:	**SS-G-004-091323**					
Laboratory ID:	09-126-04					
Lead	**140**	5.3	EPA 6010D	9-14-23	9-15-23	
Client ID:	**SS-G-005-091323**					
Laboratory ID:	09-126-05					
Lead	**150**	5.3	EPA 6010D	9-14-23	9-15-23	
Client ID:	**SS-G-006-091323**					
Laboratory ID:	09-126-06					
Lead	**33**	5.2	EPA 6010D	9-14-23	9-15-23	
Client ID:	**EB-G-001-091323**					
Laboratory ID:	09-126-07					
Lead	**52**	5.2	EPA 6010D	9-14-23	9-15-23	
Client ID:	**EB-G-002-091323**					
Laboratory ID:	09-126-08					
Lead	**90**	5.2	EPA 6010D	9-14-23	9-15-23	

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Date of Report: September 15, 2023
Samples Submitted: September 14, 2023
Laboratory Reference: 2309-126
Project: 30092874.0003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-G-007-091323**					
Laboratory ID:	09-126-09					
Lead	**110**	5.3	EPA 6010D	9-14-23	9-15-23	
Client ID:	**SS-L-001-091323**					
Laboratory ID:	09-126-10					
Lead	**94**	5.3	EPA 6010D	9-14-23	9-15-23	
Client ID:	**SS-L-002-091323**					
Laboratory ID:	09-126-11					
Lead	**ND**	5.3	EPA 6010D	9-14-23	9-15-23	
Client ID:	**SS-L-003-091323**					
Laboratory ID:	09-126-12					
Lead	**7.5**	5.5	EPA 6010D	9-14-23	9-15-23	
Client ID:	**SS-L-004-091323**					
Laboratory ID:	09-126-13					
Lead	**59**	5.7	EPA 6010D	9-14-23	9-15-23	
Client ID:	**SS-L-005-091323**					
Laboratory ID:	09-126-14					
Lead	**68**	5.6	EPA 6010D	9-14-23	9-15-23	
Client ID:	**SS-L-006-091323**					
Laboratory ID:	09-126-15					
Lead	**150**	5.7	EPA 6010D	9-14-23	9-15-23	
Client ID:	**SS-L-007-091323**					
Laboratory ID:	09-126-16					
Lead	**34**	5.4	EPA 6010D	9-14-23	9-15-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 15, 2023
Samples Submitted: September 14, 2023
Laboratory Reference: 2309-126
Project: 30092874.0003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-L-001-091323**					
Laboratory ID:	09-126-17					
Lead	**13**	5.3	EPA 6010D	9-14-23	9-15-23	
Client ID:	**EB-L-002-091323**					
Laboratory ID:	09-126-18					
Lead	**52**	5.7	EPA 6010D	9-14-23	9-15-23	

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Date of Report: September 15, 2023
Samples Submitted: September 14, 2023
Laboratory Reference: 2309-126
Project: 30092874.0003

TOTAL LEAD
EPA 6010D
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0914SM2					
Lead	**ND**	5.0	EPA 6010D	9-14-23	9-15-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-126-08										
	ORIG	DUP									
Lead	**86.4**	**88.7**	NA	NA		NA		NA	3	20	
MATRIX SPIKES											
Laboratory ID:	09-126-08										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**326**	**338**	250	250	86.4	**96**	**100**	75-125	4	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 15, 2023
Samples Submitted: September 14, 2023
Laboratory Reference: 2309-126
Project: 30092874.0003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-L-001-091323**					
Laboratory ID:	09-126-10					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-14-23	9-15-23	
Lube Oil Range Organics	**57**	53	NWTPH-Dx	9-14-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				
Client ID:	**SS-L-002-091323**					
Laboratory ID:	09-126-11					
Diesel Range Organics	**45**	26	NWTPH-Dx	9-14-23	9-15-23	
Lube Oil Range Organics	**220**	53	NWTPH-Dx	9-14-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*82*	*50-150*				
Client ID:	**SS-L-003-091323**					
Laboratory ID:	09-126-12					
Diesel Range Organics	**45**	28	NWTPH-Dx	9-14-23	9-15-23	
Lube Oil Range Organics	**200**	55	NWTPH-Dx	9-14-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*80*	*50-150*				
Client ID:	**SS-L-004-091323**					
Laboratory ID:	09-126-13					
Diesel Range Organics	**1100**	28	NWTPH-Dx	9-14-23	9-15-23	
Lube Oil Range Organics	**760**	57	NWTPH-Dx	9-14-23	9-15-23	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				
Client ID:	**SS-L-005-091323**					
Laboratory ID:	09-126-14					
Diesel Range Organics	**1300**	28	NWTPH-Dx	9-14-23	9-15-23	
Lube Oil Range Organics	**710**	57	NWTPH-Dx	9-14-23	9-15-23	N1
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				
Client ID:	**SS-L-006-091323**					
Laboratory ID:	09-126-15					
Diesel Range Organics	**84**	29	NWTPH-Dx	9-14-23	9-15-23	
Lube Oil Range Organics	**260**	57	NWTPH-Dx	9-14-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				

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Date of Report: September 15, 2023
Samples Submitted: September 14, 2023
Laboratory Reference: 2309-126
Project: 30092874.0003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-L-007-091323**					
Laboratory ID:	09-126-16					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-14-23	9-15-23	
Lube Oil Range Organics	**68**	54	NWTPH-Dx	9-14-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*81*	*50-150*				
Client ID:	**EB-L-001-091323**					
Laboratory ID:	09-126-17					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-14-23	9-15-23	
Lube Oil Range Organics	**61**	53	NWTPH-Dx	9-14-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				
Client ID:	**EB-L-002-091323**					
Laboratory ID:	09-126-18					
Diesel Range Organics	**83**	28	NWTPH-Dx	9-14-23	9-15-23	
Lube Oil Range Organics	**90**	57	NWTPH-Dx	9-14-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				

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Date of Report: September 15, 2023
Samples Submitted: September 14, 2023
Laboratory Reference: 2309-126
Project: 30092874.0003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0914S3					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-14-23	9-14-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-14-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*106*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	09-126-10									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	40	
Lube Oil Range Organics	**53.8**	**ND**	NA	NA		NA	NA	NA	40	
Surrogate:										
o-Terphenyl						*86* *46*	*50-150*			Q

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 15, 2023
Samples Submitted: September 14, 2023
Laboratory Reference: 2309-126
Project: 30092874.0003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-G-001-091323	09-126-01	**5**	9-14-23
SS-G-002-091323	09-126-02	**8**	9-14-23
SS-G-003-091323	09-126-03	**6**	9-14-23
SS-G-004-091323	09-126-04	**5**	9-14-23
SS-G-005-091323	09-126-05	**6**	9-14-23
SS-G-006-091323	09-126-06	**5**	9-14-23
EB-G-001-091323	09-126-07	**4**	9-14-23
EB-G-002-091323	09-126-08	**4**	9-14-23
SS-G-007-091323	09-126-09	**5**	9-14-23
SS-L-001-091323	09-126-10	**6**	9-14-23
SS-L-002-091323	09-126-11	**5**	9-14-23
SS-L-003-091323	09-126-12	**10**	9-14-23
SS-L-004-091323	09-126-13	**12**	9-14-23
SS-L-005-091323	09-126-14	**11**	9-14-23
SS-L-006-091323	09-126-15	**12**	9-14-23
SS-L-007-091323	09-126-16	**8**	9-14-23
EB-L-001-091323	09-126-17	**6**	9-14-23
EB-L-002-091323	09-126-18	**12**	9-14-23

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 2

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-126

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Lead (6010)	DRO/HO by NWTPH-DX	MS/MSD		% Moisture
1	SS-G-001-091323	9/13/23	1240	S	1																		X				
2	SS-G-002-091323		1245	S	1																		X				
3	SS-G-003-091323		1250	S	1																		X				
4	SS-G-004-091323		1300	S	1																		X				
5	SS-G-005-091323		1305	S	1																		X				
6	SS-G-006-091323		1310	S	1																		X				
7	EB-G-001-091323		1320	S	1																		X				
8	EB-G-002-091323		1325	S	2																		X		X		
9	SS-G-007-091323		1315	S	1																		X				
10	SS-L-001-091323	9/13/23	1600	S	1																		X	X			

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/14/23	0530
Received	Courier Service			
Relinquished				
Received		CORE	9/14/23	1140
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)

(Check One) Rush
- ☐ Same Day
- ☒ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 09-126

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Lead (6010)	DRO/HO by NWTPH-Dx			% Moisture
11	SS-L-002-091323	9/13/23	1605	S	1																		X	X			X
12	SS-L-003-091323		1610	S	1																		X	X			
13	SS-L-004-091323		1615	S	1																		X	X			
14	SS-L-005-091323		1620	S	1																		X	X			
15	SS-L-006-091323		1625	S	1																		X	X			
16	SS-L-007-091323		1630	S	1																		X	X			
17	EB-L-001-091323		1635	S	1																		X	X			
18	EB-L-002-091323	9/13/23	1640	S	1																		X	X			

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/14/23	0530
Received	Courier Service			
Relinquished				
Received	[signature]	CORE	9/14/23	1140
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 18, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-141

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 15, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-141
Project: 30092874.00003

Case Narrative

Samples were collected on September 14, 2023 and received by the laboratory on September 15, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Total Lead EPA 6010D Analysis

The duplicate RPD for Lead is outside control limits due to sample inhomogeneity.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-141
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-0-001-091423**					
Laboratory ID:	09-141-01					
Lead	**190**	5.7	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-0-002-091423**					
Laboratory ID:	09-141-02					
Lead	**23**	5.4	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-0-003-091423**					
Laboratory ID:	09-141-03					
Lead	**130**	5.3	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-0-004-091423**					
Laboratory ID:	09-141-04					
Lead	**110**	5.3	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-0-005-091423**					
Laboratory ID:	09-141-05					
Lead	**30**	5.7	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-0-006-091423**					
Laboratory ID:	09-141-06					
Lead	**94**	5.4	EPA 6010D	9-18-23	9-18-23	
Client ID:	**EB-0-001-091423**					
Laboratory ID:	09-141-07					
Lead	**31**	5.5	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-J-001-091423**					
Laboratory ID:	09-141-08					
Lead	**19**	5.3	EPA 6010D	9-18-23	9-18-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-141
Project: 30092874.00003

TOTAL LEAD
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-J-002-091423**					
Laboratory ID:	09-141-09					
Lead	**9.4**	5.3	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-J-003-091423**					
Laboratory ID:	09-141-10					
Lead	**5.6**	5.3	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-J-004-091423**					
Laboratory ID:	09-141-11					
Lead	**34**	5.2	EPA 6010D	9-18-23	9-18-23	
Client ID:	**SS-J-005-091423**					
Laboratory ID:	09-141-12					
Lead	**44**	5.4	EPA 6010D	9-18-23	9-18-23	
Client ID:	**EB-J-001-091423**					
Laboratory ID:	09-141-13					
Lead	**7.8**	5.4	EPA 6010D	9-18-23	9-18-23	
Client ID:	**EB-J-002-091423**					
Laboratory ID:	09-141-14					
Lead	**ND**	5.2	EPA 6010D	9-18-23	9-18-23	
Client ID:	**EB-J-003-091423**					
Laboratory ID:	09-141-15					
Lead	**9.4**	5.3	EPA 6010D	9-18-23	9-18-23	
Client ID:	**Dup-006-091423**					
Laboratory ID:	09-141-16					
Lead	**29**	5.3	EPA 6010D	9-18-23	9-18-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-141
Project: 30092874.00003

TOTAL LEAD
EPA 6010D
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918SM2					
Lead	**ND**	5.0	EPA 6010D	9-18-23	9-18-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-143-01										
	ORIG	DUP									
Lead	**107**	**137**	NA	NA		NA		NA	24	20	L
MATRIX SPIKES											
Laboratory ID:	09-143-01										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**413**	**409**	250	250	107	**122**	**121**	75-125	1	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-141
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-J-001-091423**					
Laboratory ID:	09-141-08					
Aroclor 1016	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*75*	*50-127*				
Client ID:	**SS-J-002-091423**					
Laboratory ID:	09-141-09					
Aroclor 1016	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**0.96**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*71*	*50-127*				
Client ID:	**SS-J-003-091423**					
Laboratory ID:	09-141-10					
Aroclor 1016	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**0.062**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*73*	*50-127*				

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Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-141
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-J-004-091423**					
Laboratory ID:	09-141-11					
Aroclor 1016	**ND**	0.052	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.052	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.052	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.052	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.052	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.052	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**0.40**	0.052	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.052	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.052	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*71*	*50-127*				
Client ID:	**SS-J-005-091423**					
Laboratory ID:	09-141-12					
Aroclor 1016	**ND**	0.054	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.054	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.054	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.054	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.054	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.054	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**0.29**	0.054	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.054	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.054	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*68*	*50-127*				
Client ID:	**EB-J-001-091423**					
Laboratory ID:	09-141-13					
Aroclor 1016	**ND**	0.11	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.11	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.11	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.11	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.11	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.11	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**1.7**	0.11	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.11	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.11	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*66*	*50-127*				

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Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-141
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-J-002-091423**					
Laboratory ID:	09-141-14					
Aroclor 1016	**ND**	0.52	EPA 8082A	9-15-23	9-18-23	
Aroclor 1221	**ND**	0.52	EPA 8082A	9-15-23	9-18-23	
Aroclor 1232	**ND**	0.52	EPA 8082A	9-15-23	9-18-23	
Aroclor 1242	**ND**	0.52	EPA 8082A	9-15-23	9-18-23	
Aroclor 1248	**ND**	0.52	EPA 8082A	9-15-23	9-18-23	
Aroclor 1254	**ND**	0.52	EPA 8082A	9-15-23	9-18-23	
Aroclor 1260	**8.3**	0.52	EPA 8082A	9-15-23	9-18-23	
Aroclor 1262	**ND**	0.52	EPA 8082A	9-15-23	9-18-23	
Aroclor 1268	**ND**	0.52	EPA 8082A	9-15-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*70*	*50-127*				
Client ID:	**EB-J-003-091423**					
Laboratory ID:	09-141-15					
Aroclor 1016	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*74*	*50-127*				
Client ID:	**Dup-006-091423**					
Laboratory ID:	09-141-16					
Aroclor 1016	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1254	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1260	**0.46**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*74*	*50-127*				

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Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-141
Project: 30092874.00003

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*93*	*50-127*				
Laboratory ID:	MB0918S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*80*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-116-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.292**	**0.323**	0.500	0.500	ND	**58**	**65**	41-121	10	28	
Surrogate:											
DCB						*66*	*75*	*50-127*			
Laboratory ID:	09-141-16										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.800**	**0.773**	0.500	0.500	0.436	**73**	**67**	41-121	3	28	
Surrogate:											
DCB						*75*	*70*	*50-127*			

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Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-141
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SS-J-001-091423**					
Laboratory ID:	09-141-08					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**140**	53	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*68*	*50-150*				
Client ID:	**SS-J-002-091423**					
Laboratory ID:	09-141-09					
Diesel Range Organics	**33**	26	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**ND**	53	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*68*	*50-150*				
Client ID:	**SS-J-003-091423**					
Laboratory ID:	09-141-10					
Diesel Range Organics	**290**	27	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**280**	53	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*82*	*50-150*				
Client ID:	**SS-J-004-091423**					
Laboratory ID:	09-141-11					
Diesel Range Organics	**180**	26	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**78**	52	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*68*	*50-150*				
Client ID:	**SS-J-005-091423**					
Laboratory ID:	09-141-12					
Diesel Range Organics	**130**	27	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**58**	54	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*69*	*50-150*				
Client ID:	**EB-J-001-091423**					
Laboratory ID:	09-141-13					
Diesel Range Organics	**91**	27	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				

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Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-141
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**EB-J-002-091423**					
Laboratory ID:	09-141-14					
Diesel Range Organics	**ND**	26	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**ND**	52	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*70*	*50-150*				
Client ID:	**EB-J-003-091423**					
Laboratory ID:	09-141-15					
Diesel Range Organics	**97**	27	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**60**	53	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*75*	*50-150*				
Client ID:	**Dup-006-091423**					
Laboratory ID:	09-141-16					
Diesel Range Organics	**170**	26	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**61**	53	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*76*	*50-150*				

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Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-141
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-141-08										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Lube Oil Range Organics	**128**	**103**	NA	NA		NA		NA	22	40	
Surrogate:											
o-Terphenyl						*68*	*71*	*50-150*			

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Date of Report: September 18, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-141
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SS-0-001-091423	09-141-01	**13**	9-15-23
SS-0-002-091423	09-141-02	**7**	9-15-23
SS-0-003-091423	09-141-03	**6**	9-15-23
SS-0-004-091423	09-141-04	**7**	9-15-23
SS-0-005-091423	09-141-05	**12**	9-15-23
SS-0-006-091423	09-141-06	**7**	9-15-23
EB-0-001-091423	09-141-07	**9**	9-15-23
SS-J-001-091423	09-141-08	**6**	9-15-23
SS-J-002-091423	09-141-09	**5**	9-15-23
SS-J-003-091423	09-141-10	**6**	9-15-23
SS-J-004-091423	09-141-11	**4**	9-15-23
SS-J-005-091423	09-141-12	**7**	9-15-23
EB-J-001-091423	09-141-13	**7**	9-15-23
EB-J-002-091423	09-141-14	**4**	9-15-23
EB-J-003-091423	09-141-15	**6**	9-15-23
Dup-006-091423	09-141-16	**5**	9-15-23

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

OnSite Environmental Inc.
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Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-141

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Metal lead (6010)	PCBs	DRO/HO by NWTPH-Dx		% Moisture
1	SS-0-001-091423	9/14/23	1005	S	1																		X				
2	SS-0-002-091423		1010	S	1																		X				
3	SS-0-003-091423		1015	S	1																		X				
4	SS-0-004-091423		1020	S	1																		X				
5	SS-0-005-091423		1025	S	1																		X				
6	SS-0-006-091423		1030	S	1																		X				
7	EB-0-001-091423		1035	S	1																		X				
8	SS-J-001-091423		1515	S	1																		X	X	X		
9	SS-J-002-091423		1520	S	1																		X	X	X		
10	SS-J-003-091423	9/14/23	1525	S	1																		X	X	X		

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/15/23	0600
Received	courier service			
Relinquished				
Received	[signature]	ONE	9/15/23	1130
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-141

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Metal Lead (6010)	PCBs	PRO/HO by NWTPH-DX		% Moisture
11	SS-J-004-091423	9/14/23	1530	S	1																		X	X	X		
12	SS-J-005-091423		1535	S	1																		X	X	X		
13	EB-J-001-091423		1540	S	1																		X	X	X		
14	EB-J-002-091423		1545	S	1																		X	X	X		
15	EB J-003-091423		1550	S	1																		X	X	X		
16	Dup-006-091423	9/14/23	—	S	1																		X	X	X		

	Signature	Company	Date	Time
Relinquished	Thom Nannini	Arcadis	9/15/23	0600
Received	Courier Service			
Relinquished				
Received		OSE	9/15/23	1130
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

Appendix C

Laboratory Analytical Reports - Fill Material

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

August 25, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project Burrows Island
Laboratory Reference No. 2308-218

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on August 18, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

Case Narrative

Samples were collected on August 18, 2023 and received by the laboratory on August 18, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-1**					
Laboratory ID:	08-218-01					
Diesel Range Organics	**ND**	26	NWTPH-Dx	8-21-23	8-23-23	
Lube Oil Range Organics	**ND**	52	NWTPH-Dx	8-21-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				
Client ID:	**SAND-COMP-2**					
Laboratory ID:	08-218-02					
Diesel Range Organics	**ND**	26	NWTPH-Dx	8-21-23	8-23-23	
Lube Oil Range Organics	**ND**	52	NWTPH-Dx	8-21-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*76*	*50-150*				
Client ID:	**TOP-COMP-1**					
Laboratory ID:	08-218-03					
Diesel Range Organics	**42**	27	NWTPH-Dx	8-21-23	8-23-23	N
Lube Oil Range Organics	**600**	54	NWTPH-Dx	8-21-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**TOP-COMP-2**					
Laboratory ID:	08-218-04					
Diesel Range Organics	**32**	27	NWTPH-Dx	8-21-23	8-23-23	N
Lube Oil Range Organics	**490**	54	NWTPH-Dx	8-21-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*76*	*50-150*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0821S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	8-21-23	8-21-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	8-21-23	8-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-216-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Lube Oil	**85.9**	**76.0**	NA	NA		NA		NA	12	40	
Surrogate:											
o-Terphenyl						*78*	*76*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-1**					
Laboratory ID:	08-218-01					
Dichlorodifluoromethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Chloromethane	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
Vinyl Chloride	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Bromomethane	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
Chloroethane	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
Trichlorofluoromethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloroethene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Acetone	ND	0.0063	EPA 8260D	8-18-23	8-18-23	
Iodomethane	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
Carbon Disulfide	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Methylene Chloride	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
(trans) 1,2-Dichloroethene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Methyl t-Butyl Ether	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloroethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Vinyl Acetate	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
2,2-Dichloropropane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
(cis) 1,2-Dichloroethene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
2-Butanone	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
Bromochloromethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Chloroform	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,1,1-Trichloroethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Carbon Tetrachloride	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloropropene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Benzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,2-Dichloroethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Trichloroethene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,2-Dichloropropane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Dibromomethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Bromodichloromethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
2-Chloroethyl Vinyl Ether	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
(cis) 1,3-Dichloropropene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Methyl Isobutyl Ketone	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
Toluene	ND	0.0032	EPA 8260D	8-18-23	8-18-23	

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-1**					
Laboratory ID:	08-218-01					
(trans) 1,3-Dichloropropene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,1,2-Trichloroethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Tetrachloroethene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,3-Dichloropropane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
2-Hexanone	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
Dibromochloromethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,2-Dibromoethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Chlorobenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,1,1,2-Tetrachloroethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Ethylbenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
m,p-Xylene	ND	0.0013	EPA 8260D	8-18-23	8-18-23	
o-Xylene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Styrene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Bromoform	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
Isopropylbenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Bromobenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,1,2,2-Tetrachloroethane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,2,3-Trichloropropane	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
n-Propylbenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
2-Chlorotoluene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
4-Chlorotoluene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,3,5-Trimethylbenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
tert-Butylbenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,2,4-Trimethylbenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
sec-Butylbenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,3-Dichlorobenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
p-Isopropyltoluene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,4-Dichlorobenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,2-Dichlorobenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
n-Butylbenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
1,2-Dibromo-3-chloropropane	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
1,2,4-Trichlorobenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Hexachlorobutadiene	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
Naphthalene	ND	0.0032	EPA 8260D	8-18-23	8-18-23	
1,2,3-Trichlorobenzene	ND	0.00063	EPA 8260D	8-18-23	8-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*75-130*				
Toluene-d8	*108*	*78-128*				
4-Bromofluorobenzene	*94*	*71-130*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-2**					
Laboratory ID:	08-218-02					
Dichlorodifluoromethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Chloromethane	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
Vinyl Chloride	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Bromomethane	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
Chloroethane	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
Trichlorofluoromethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloroethene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Acetone	ND	0.0098	EPA 8260D	8-18-23	8-18-23	
Iodomethane	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
Carbon Disulfide	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Methylene Chloride	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
(trans) 1,2-Dichloroethene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Methyl t-Butyl Ether	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloroethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Vinyl Acetate	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
2,2-Dichloropropane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
(cis) 1,2-Dichloroethene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
2-Butanone	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
Bromochloromethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Chloroform	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,1,1-Trichloroethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Carbon Tetrachloride	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloropropene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Benzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,2-Dichloroethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Trichloroethene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,2-Dichloropropane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Dibromomethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Bromodichloromethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
2-Chloroethyl Vinyl Ether	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
(cis) 1,3-Dichloropropene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Methyl Isobutyl Ketone	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
Toluene	ND	0.0049	EPA 8260D	8-18-23	8-18-23	

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Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-2**					
Laboratory ID:	08-218-02					
(trans) 1,3-Dichloropropene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,1,2-Trichloroethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Tetrachloroethene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,3-Dichloropropane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
2-Hexanone	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
Dibromochloromethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,2-Dibromoethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Chlorobenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,1,1,2-Tetrachloroethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Ethylbenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
m,p-Xylene	ND	0.0020	EPA 8260D	8-18-23	8-18-23	
o-Xylene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Styrene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Bromoform	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
Isopropylbenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Bromobenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,1,2,2-Tetrachloroethane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,2,3-Trichloropropane	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
n-Propylbenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
2-Chlorotoluene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
4-Chlorotoluene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,3,5-Trimethylbenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
tert-Butylbenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,2,4-Trimethylbenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
sec-Butylbenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,3-Dichlorobenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
p-Isopropyltoluene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,4-Dichlorobenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,2-Dichlorobenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
n-Butylbenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
1,2,4-Trichlorobenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Hexachlorobutadiene	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
Naphthalene	ND	0.0049	EPA 8260D	8-18-23	8-18-23	
1,2,3-Trichlorobenzene	ND	0.00098	EPA 8260D	8-18-23	8-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*75-130*				
Toluene-d8	*108*	*78-128*				
4-Bromofluorobenzene	*93*	*71-130*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TOP-COMP-1**					
Laboratory ID:	08-218-03					
Dichlorodifluoromethane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Chloromethane	ND	0.011	EPA 8260D	8-18-23	8-18-23	
Vinyl Chloride	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Bromomethane	ND	0.011	EPA 8260D	8-18-23	8-18-23	
Chloroethane	ND	0.011	EPA 8260D	8-18-23	8-18-23	
Trichlorofluoromethane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloroethene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Acetone	ND	0.022	EPA 8260D	8-18-23	8-18-23	
Iodomethane	ND	0.011	EPA 8260D	8-18-23	8-18-23	
Carbon Disulfide	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Methylene Chloride	ND	0.011	EPA 8260D	8-18-23	8-18-23	
(trans) 1,2-Dichloroethene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Methyl t-Butyl Ether	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloroethane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Vinyl Acetate	ND	0.011	EPA 8260D	8-18-23	8-18-23	
2,2-Dichloropropane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
(cis) 1,2-Dichloroethene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
2-Butanone	ND	0.011	EPA 8260D	8-18-23	8-18-23	
Bromochloromethane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Chloroform	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
1,1,1-Trichloroethane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Carbon Tetrachloride	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloropropene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Benzene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
1,2-Dichloroethane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Trichloroethene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
1,2-Dichloropropane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Dibromomethane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Bromodichloromethane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
2-Chloroethyl Vinyl Ether	ND	0.011	EPA 8260D	8-18-23	8-18-23	
(cis) 1,3-Dichloropropene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Methyl Isobutyl Ketone	ND	0.011	EPA 8260D	8-18-23	8-18-23	
Toluene	ND	0.011	EPA 8260D	8-18-23	8-18-23	

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TOP-COMP-1**					
Laboratory ID:	08-218-03					
(trans) 1,3-Dichloropropene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
1,1,2-Trichloroethane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Tetrachloroethene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
1,3-Dichloropropane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
2-Hexanone	ND	0.011	EPA 8260D	8-18-23	8-18-23	
Dibromochloromethane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
1,2-Dibromoethane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Chlorobenzene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
1,1,1,2-Tetrachloroethane	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Ethylbenzene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
m,p-Xylene	ND	0.0043	EPA 8260D	8-18-23	8-18-23	
o-Xylene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Styrene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Bromoform	ND	0.011	EPA 8260D	8-18-23	8-18-23	
Isopropylbenzene	ND	0.0022	EPA 8260D	8-18-23	8-18-23	
Bromobenzene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
1,1,2,2-Tetrachloroethane	ND	0.058	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichloropropane	ND	0.058	EPA 8260D	8-23-23	8-23-23	
n-Propylbenzene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
2-Chlorotoluene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
4-Chlorotoluene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
1,3,5-Trimethylbenzene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
tert-Butylbenzene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trimethylbenzene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
sec-Butylbenzene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
1,3-Dichlorobenzene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
p-Isopropyltoluene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
1,4-Dichlorobenzene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
1,2-Dichlorobenzene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
n-Butylbenzene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromo-3-chloropropane	ND	0.29	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trichlorobenzene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
Hexachlorobutadiene	ND	0.29	EPA 8260D	8-23-23	8-23-23	
Naphthalene	ND	0.29	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichlorobenzene	ND	0.058	EPA 8260D	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-130*				
Toluene-d8	*106*	*78-128*				
4-Bromofluorobenzene	*80*	*71-130*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TOP-COMP-2**					
Laboratory ID:	08-218-04					
Dichlorodifluoromethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Chloromethane	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
Vinyl Chloride	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Bromomethane	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
Chloroethane	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
Trichlorofluoromethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloroethene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Acetone	ND	0.019	EPA 8260D	8-18-23	8-18-23	
Iodomethane	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
Carbon Disulfide	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Methylene Chloride	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
(trans) 1,2-Dichloroethene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Methyl t-Butyl Ether	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloroethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Vinyl Acetate	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
2,2-Dichloropropane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
(cis) 1,2-Dichloroethene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
2-Butanone	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
Bromochloromethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Chloroform	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,1,1-Trichloroethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Carbon Tetrachloride	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloropropene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Benzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,2-Dichloroethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Trichloroethene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,2-Dichloropropane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Dibromomethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Bromodichloromethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
2-Chloroethyl Vinyl Ether	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
(cis) 1,3-Dichloropropene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Methyl Isobutyl Ketone	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
Toluene	ND	0.0097	EPA 8260D	8-18-23	8-18-23	

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Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TOP-COMP-2**					
Laboratory ID:	08-218-04					
(trans) 1,3-Dichloropropene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,1,2-Trichloroethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Tetrachloroethene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,3-Dichloropropane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
2-Hexanone	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
Dibromochloromethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,2-Dibromoethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Chlorobenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,1,1,2-Tetrachloroethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Ethylbenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
m,p-Xylene	ND	0.0039	EPA 8260D	8-18-23	8-18-23	
o-Xylene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Styrene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Bromoform	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
Isopropylbenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Bromobenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,1,2,2-Tetrachloroethane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,2,3-Trichloropropane	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
n-Propylbenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
2-Chlorotoluene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
4-Chlorotoluene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,3,5-Trimethylbenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
tert-Butylbenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,2,4-Trimethylbenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
sec-Butylbenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,3-Dichlorobenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
p-Isopropyltoluene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,4-Dichlorobenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,2-Dichlorobenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
n-Butylbenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
1,2-Dibromo-3-chloropropane	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
1,2,4-Trichlorobenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Hexachlorobutadiene	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
Naphthalene	ND	0.0097	EPA 8260D	8-18-23	8-18-23	
1,2,3-Trichlorobenzene	ND	0.0019	EPA 8260D	8-18-23	8-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-130*				
Toluene-d8	*105*	*78-128*				
4-Bromofluorobenzene	*81*	*71-130*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0818S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Chloromethane	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Bromomethane	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
Chloroethane	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Acetone	ND	0.010	EPA 8260D	8-18-23	8-18-23	
Iodomethane	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
Carbon Disulfide	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Methylene Chloride	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Vinyl Acetate	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
2-Butanone	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
Bromochloromethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Chloroform	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Benzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Trichloroethene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Dibromomethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
Toluene	ND	0.0050	EPA 8260D	8-18-23	8-18-23	

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Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0818S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
2-Hexanone	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Chlorobenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Ethylbenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
m,p-Xylene	ND	0.0020	EPA 8260D	8-18-23	8-18-23	
o-Xylene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Styrene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Bromoform	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
Isopropylbenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Bromobenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
n-Propylbenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
tert-Butylbenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
sec-Butylbenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
n-Butylbenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
Naphthalene	ND	0.0050	EPA 8260D	8-18-23	8-18-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	8-18-23	8-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-130*				
Toluene-d8	*109*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260D	8-23-23	8-23-23	
Chloromethane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Bromomethane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Chloroethane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Acetone	ND	0.010	EPA 8260D	8-23-23	8-23-23	
Iodomethane	ND	0.0076	EPA 8260D	8-23-23	8-23-23	
Carbon Disulfide	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Methylene Chloride	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Vinyl Acetate	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
2-Butanone	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Bromochloromethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Chloroform	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Benzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Trichloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Dibromomethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Toluene	ND	0.0050	EPA 8260D	8-23-23	8-23-23	

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0823S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
2-Hexanone	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Chlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Ethylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
m,p-Xylene	ND	0.0020	EPA 8260D	8-23-23	8-23-23	
o-Xylene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Styrene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Bromoform	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Isopropylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Bromobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
n-Propylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
tert-Butylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
sec-Butylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
n-Butylbenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
Naphthalene	ND	0.0050	EPA 8260D	8-23-23	8-23-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	8-23-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-130*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*96*	*71-130*				

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Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0818S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0466**	**0.0400**	0.0500	0.0500	93	80	30-160	15	26	
Chloromethane	**0.0545**	**0.0500**	0.0500	0.0500	109	100	59-131	9	26	
Vinyl Chloride	**0.0627**	**0.0614**	0.0500	0.0500	125	123	68-136	2	23	
Bromomethane	**0.0637**	**0.0606**	0.0500	0.0500	127	121	48-155	5	32	
Chloroethane	**0.0529**	**0.0500**	0.0500	0.0500	106	100	67-141	6	16	
Trichlorofluoromethane	**0.0526**	**0.0517**	0.0500	0.0500	105	103	76-127	2	19	
1,1-Dichloroethene	**0.0570**	**0.0573**	0.0500	0.0500	114	115	75-129	1	19	
Acetone	**0.0519**	**0.0479**	0.0500	0.0500	104	96	49-158	8	37	
Iodomethane	**0.0421**	**0.0442**	0.0500	0.0500	84	88	37-140	5	27	
Carbon Disulfide	**0.0443**	**0.0430**	0.0500	0.0500	89	86	41-143	3	19	
Methylene Chloride	**0.0529**	**0.0510**	0.0500	0.0500	106	102	60-124	4	18	
(trans) 1,2-Dichloroethene	**0.0555**	**0.0540**	0.0500	0.0500	111	108	79-133	3	15	
Methyl t-Butyl Ether	**0.0521**	**0.0492**	0.0500	0.0500	104	98	73-125	6	17	
1,1-Dichloroethane	**0.0547**	**0.0537**	0.0500	0.0500	109	107	79-125	2	17	
Vinyl Acetate	**0.0511**	**0.0470**	0.0500	0.0500	102	94	51-145	8	41	
2,2-Dichloropropane	**0.0568**	**0.0553**	0.0500	0.0500	114	111	79-126	3	18	
(cis) 1,2-Dichloroethene	**0.0548**	**0.0532**	0.0500	0.0500	110	106	75-131	3	15	
2-Butanone	**0.0533**	**0.0447**	0.0500	0.0500	107	89	54-145	18	32	
Bromochloromethane	**0.0582**	**0.0537**	0.0500	0.0500	116	107	80-126	8	15	
Chloroform	**0.0558**	**0.0531**	0.0500	0.0500	112	106	80-123	5	15	
1,1,1-Trichloroethane	**0.0572**	**0.0557**	0.0500	0.0500	114	111	78-124	3	21	
Carbon Tetrachloride	**0.0582**	**0.0562**	0.0500	0.0500	116	112	74-127	3	18	
1,1-Dichloropropene	**0.0562**	**0.0554**	0.0500	0.0500	112	111	80-123	1	15	
Benzene	**0.0551**	**0.0540**	0.0500	0.0500	110	108	80-122	2	18	
1,2-Dichloroethane	**0.0569**	**0.0543**	0.0500	0.0500	114	109	75-124	5	15	
Trichloroethene	**0.0590**	**0.0592**	0.0500	0.0500	118	118	80-129	0	18	
1,2-Dichloropropane	**0.0561**	**0.0556**	0.0500	0.0500	112	111	80-123	1	15	
Dibromomethane	**0.0612**	**0.0570**	0.0500	0.0500	122	114	80-123	7	15	
Bromodichloromethane	**0.0594**	**0.0576**	0.0500	0.0500	119	115	80-129	3	15	
(cis) 1,3-Dichloropropene	**0.0583**	**0.0573**	0.0500	0.0500	117	115	80-130	2	15	
Methyl Isobutyl Ketone	**0.0564**	**0.0504**	0.0500	0.0500	113	101	63-137	11	27	
Toluene	**0.0552**	**0.0556**	0.0500	0.0500	110	111	80-120	1	18	
(trans) 1,3-Dichloropropene	**0.0564**	**0.0551**	0.0500	0.0500	113	110	80-124	2	15	

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Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0818S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0563**	**0.0538**	0.0500	0.0500	113	108	80-120	5	15	
Tetrachloroethene	**0.0576**	**0.0589**	0.0500	0.0500	115	118	77-126	2	15	
1,3-Dichloropropane	**0.0542**	**0.0521**	0.0500	0.0500	108	104	77-123	4	15	
2-Hexanone	**0.0525**	**0.0462**	0.0500	0.0500	105	92	53-137	13	29	
Dibromochloromethane	**0.0591**	**0.0569**	0.0500	0.0500	118	114	80-128	4	16	
1,2-Dibromoethane	**0.0573**	**0.0542**	0.0500	0.0500	115	108	80-122	6	20	
Chlorobenzene	**0.0571**	**0.0575**	0.0500	0.0500	114	115	80-120	1	18	
1,1,1,2-Tetrachloroethane	**0.0585**	**0.0574**	0.0500	0.0500	117	115	80-120	2	15	
Ethylbenzene	**0.0543**	**0.0549**	0.0500	0.0500	109	110	80-120	1	15	
m,p-Xylene	**0.107**	**0.112**	0.100	0.100	107	112	80-120	5	15	
o-Xylene	**0.0541**	**0.0550**	0.0500	0.0500	108	110	80-120	2	15	
Styrene	**0.0561**	**0.0575**	0.0500	0.0500	112	115	80-122	2	15	
Bromoform	**0.0565**	**0.0542**	0.0500	0.0500	113	108	78-126	4	15	
Isopropylbenzene	**0.0554**	**0.0572**	0.0500	0.0500	111	114	80-125	3	15	
Bromobenzene	**0.0569**	**0.0566**	0.0500	0.0500	114	113	79-124	1	15	
1,1,2,2-Tetrachloroethane	**0.0561**	**0.0513**	0.0500	0.0500	112	103	75-122	9	17	
1,2,3-Trichloropropane	**0.0549**	**0.0511**	0.0500	0.0500	110	102	72-125	7	20	
n-Propylbenzene	**0.0560**	**0.0575**	0.0500	0.0500	112	115	77-126	3	16	
2-Chlorotoluene	**0.0562**	**0.0566**	0.0500	0.0500	112	113	75-128	1	15	
4-Chlorotoluene	**0.0558**	**0.0571**	0.0500	0.0500	112	114	78-127	2	16	
1,3,5-Trimethylbenzene	**0.0561**	**0.0577**	0.0500	0.0500	112	115	77-128	3	15	
tert-Butylbenzene	**0.0564**	**0.0572**	0.0500	0.0500	113	114	73-130	1	20	
1,2,4-Trimethylbenzene	**0.0550**	**0.0574**	0.0500	0.0500	110	115	77-125	4	16	
sec-Butylbenzene	**0.0580**	**0.0585**	0.0500	0.0500	116	117	75-130	1	17	
1,3-Dichlorobenzene	**0.0547**	**0.0556**	0.0500	0.0500	109	111	78-123	2	17	
p-Isopropyltoluene	**0.0580**	**0.0583**	0.0500	0.0500	116	117	75-130	1	18	
1,4-Dichlorobenzene	**0.0551**	**0.0548**	0.0500	0.0500	110	110	77-121	1	17	
1,2-Dichlorobenzene	**0.0561**	**0.0544**	0.0500	0.0500	112	109	80-120	3	15	
n-Butylbenzene	**0.0569**	**0.0582**	0.0500	0.0500	114	116	76-131	2	20	
1,2-Dibromo-3-chloropropane	**0.0556**	**0.0507**	0.0500	0.0500	111	101	61-137	9	28	
1,2,4-Trichlorobenzene	**0.0529**	**0.0561**	0.0500	0.0500	106	112	77-127	6	17	
Hexachlorobutadiene	**0.0570**	**0.0571**	0.0500	0.0500	114	114	77-125	0	22	
Naphthalene	**0.0531**	**0.0524**	0.0500	0.0500	106	105	68-129	1	19	
1,2,3-Trichlorobenzene	**0.0543**	**0.0564**	0.0500	0.0500	109	113	77-124	4	19	
Surrogate:										
Dibromofluoromethane					*97*	*93*	*75-130*			
Toluene-d8					*110*	*109*	*78-128*			
4-Bromofluorobenzene					*99*	*98*	*71-130*			

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Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0823S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0375**	**0.0370**	0.0500	0.0500	75	74	30-160	1	26	
Chloromethane	**0.0410**	**0.0429**	0.0500	0.0500	82	86	59-131	5	26	
Vinyl Chloride	**0.0440**	**0.0473**	0.0500	0.0500	88	95	68-136	7	23	
Bromomethane	**0.0420**	**0.0476**	0.0500	0.0500	84	95	48-155	13	32	
Chloroethane	**0.0458**	**0.0506**	0.0500	0.0500	92	101	67-141	10	16	
Trichlorofluoromethane	**0.0513**	**0.0575**	0.0500	0.0500	103	115	76-127	11	19	
1,1-Dichloroethene	**0.0489**	**0.0544**	0.0500	0.0500	98	109	75-129	11	19	
Acetone	**0.0572**	**0.0568**	0.0500	0.0500	114	114	49-158	1	37	
Iodomethane	**0.0328**	**0.0389**	0.0500	0.0500	66	78	37-140	17	27	
Carbon Disulfide	**0.0415**	**0.0452**	0.0500	0.0500	83	90	41-143	9	19	
Methylene Chloride	**0.0467**	**0.0525**	0.0500	0.0500	93	105	60-124	12	18	
(trans) 1,2-Dichloroethene	**0.0489**	**0.0538**	0.0500	0.0500	98	108	79-133	10	15	
Methyl t-Butyl Ether	**0.0498**	**0.0526**	0.0500	0.0500	100	105	73-125	5	17	
1,1-Dichloroethane	**0.0491**	**0.0541**	0.0500	0.0500	98	108	79-125	10	17	
Vinyl Acetate	**0.0538**	**0.0552**	0.0500	0.0500	108	110	51-145	3	41	
2,2-Dichloropropane	**0.0532**	**0.0532**	0.0500	0.0500	106	106	79-126	0	18	
(cis) 1,2-Dichloroethene	**0.0523**	**0.0574**	0.0500	0.0500	105	115	75-131	9	15	
2-Butanone	**0.0567**	**0.0572**	0.0500	0.0500	113	114	54-145	1	32	
Bromochloromethane	**0.0496**	**0.0552**	0.0500	0.0500	99	110	80-126	11	15	
Chloroform	**0.0488**	**0.0525**	0.0500	0.0500	98	105	80-123	7	15	
1,1,1-Trichloroethane	**0.0466**	**0.0523**	0.0500	0.0500	93	105	78-124	12	21	
Carbon Tetrachloride	**0.0419**	**0.0473**	0.0500	0.0500	84	95	74-127	12	18	
1,1-Dichloropropene	**0.0445**	**0.0516**	0.0500	0.0500	89	103	80-123	15	15	
Benzene	**0.0476**	**0.0520**	0.0500	0.0500	95	104	80-122	9	18	
1,2-Dichloroethane	**0.0494**	**0.0542**	0.0500	0.0500	99	108	75-124	9	15	
Trichloroethene	**0.0514**	**0.0521**	0.0500	0.0500	103	104	80-129	1	18	
1,2-Dichloropropane	**0.0539**	**0.0540**	0.0500	0.0500	108	108	80-123	0	15	
Dibromomethane	**0.0499**	**0.0483**	0.0500	0.0500	100	97	80-123	3	15	
Bromodichloromethane	**0.0532**	**0.0533**	0.0500	0.0500	106	107	80-129	0	15	
(cis) 1,3-Dichloropropene	**0.0540**	**0.0541**	0.0500	0.0500	108	108	80-130	0	15	
Methyl Isobutyl Ketone	**0.0554**	**0.0518**	0.0500	0.0500	111	104	63-137	7	27	
Toluene	**0.0505**	**0.0497**	0.0500	0.0500	101	99	80-120	2	18	
(trans) 1,3-Dichloropropene	**0.0546**	**0.0554**	0.0500	0.0500	109	111	80-124	1	15	

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0823S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0480**	**0.0480**	0.0500	0.0500	96	96	80-120	0	15	
Tetrachloroethene	**0.0540**	**0.0547**	0.0500	0.0500	108	109	77-126	1	15	
1,3-Dichloropropane	**0.0529**	**0.0528**	0.0500	0.0500	106	106	77-123	0	15	
2-Hexanone	**0.0557**	**0.0517**	0.0500	0.0500	111	103	53-137	7	29	
Dibromochloromethane	**0.0548**	**0.0528**	0.0500	0.0500	110	106	80-128	4	16	
1,2-Dibromoethane	**0.0528**	**0.0514**	0.0500	0.0500	106	103	80-122	3	20	
Chlorobenzene	**0.0495**	**0.0509**	0.0500	0.0500	99	102	80-120	3	18	
1,1,1,2-Tetrachloroethane	**0.0504**	**0.0498**	0.0500	0.0500	101	100	80-120	1	15	
Ethylbenzene	**0.0510**	**0.0522**	0.0500	0.0500	102	104	80-120	2	15	
m,p-Xylene	**0.0990**	**0.102**	0.100	0.100	99	102	80-120	3	15	
o-Xylene	**0.0511**	**0.0525**	0.0500	0.0500	102	105	80-120	3	15	
Styrene	**0.0509**	**0.0531**	0.0500	0.0500	102	106	80-122	4	15	
Bromoform	**0.0538**	**0.0538**	0.0500	0.0500	108	108	78-126	0	15	
Isopropylbenzene	**0.0520**	**0.0540**	0.0500	0.0500	104	108	80-125	4	15	
Bromobenzene	**0.0494**	**0.0476**	0.0500	0.0500	99	95	79-124	4	15	
1,1,2,2-Tetrachloroethane	**0.0521**	**0.0493**	0.0500	0.0500	104	99	75-122	6	17	
1,2,3-Trichloropropane	**0.0502**	**0.0473**	0.0500	0.0500	100	95	72-125	6	20	
n-Propylbenzene	**0.0493**	**0.0492**	0.0500	0.0500	99	98	77-126	0	16	
2-Chlorotoluene	**0.0523**	**0.0508**	0.0500	0.0500	105	102	75-128	3	15	
4-Chlorotoluene	**0.0515**	**0.0507**	0.0500	0.0500	103	101	78-127	2	16	
1,3,5-Trimethylbenzene	**0.0502**	**0.0500**	0.0500	0.0500	100	100	77-128	0	15	
tert-Butylbenzene	**0.0502**	**0.0491**	0.0500	0.0500	100	98	73-130	2	20	
1,2,4-Trimethylbenzene	**0.0514**	**0.0499**	0.0500	0.0500	103	100	77-125	3	16	
sec-Butylbenzene	**0.0488**	**0.0472**	0.0500	0.0500	98	94	75-130	3	17	
1,3-Dichlorobenzene	**0.0519**	**0.0514**	0.0500	0.0500	104	103	78-123	1	17	
p-Isopropyltoluene	**0.0511**	**0.0513**	0.0500	0.0500	102	103	75-130	0	18	
1,4-Dichlorobenzene	**0.0520**	**0.0510**	0.0500	0.0500	104	102	77-121	2	17	
1,2-Dichlorobenzene	**0.0518**	**0.0511**	0.0500	0.0500	104	102	80-120	1	15	
n-Butylbenzene	**0.0532**	**0.0534**	0.0500	0.0500	106	107	76-131	0	20	
1,2-Dibromo-3-chloropropane	**0.0597**	**0.0523**	0.0500	0.0500	119	105	61-137	13	28	
1,2,4-Trichlorobenzene	**0.0582**	**0.0604**	0.0500	0.0500	116	121	77-127	4	17	
Hexachlorobutadiene	**0.0514**	**0.0512**	0.0500	0.0500	103	102	77-125	0	22	
Naphthalene	**0.0552**	**0.0519**	0.0500	0.0500	110	104	68-129	6	19	
1,2,3-Trichlorobenzene	**0.0527**	**0.0548**	0.0500	0.0500	105	110	77-124	4	19	
Surrogate:										
Dibromofluoromethane					*92*	*102*	*75-130*			
Toluene-d8					*100*	*99*	*78-128*			
4-Bromofluorobenzene					*107*	*107*	*71-130*			

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TB-08182023**					
Laboratory ID:	08-218-05					
Dichlorodifluoromethane	ND	0.29	EPA 8260D	8-21-23	8-21-23	
Chloromethane	ND	1.0	EPA 8260D	8-21-23	8-21-23	
Vinyl Chloride	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Bromomethane	ND	1.0	EPA 8260D	8-21-23	8-21-23	
Chloroethane	ND	1.0	EPA 8260D	8-21-23	8-21-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Acetone	ND	5.0	EPA 8260D	8-21-23	8-21-23	
Iodomethane	ND	7.7	EPA 8260D	8-21-23	8-21-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-21-23	8-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-21-23	8-21-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
2-Butanone	ND	5.0	EPA 8260D	8-21-23	8-21-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Chloroform	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Benzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Trichloroethene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Dibromomethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-21-23	8-21-23	
Toluene	ND	1.0	EPA 8260D	8-21-23	8-21-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-21-23	8-21-23	

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Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TB-08182023**					
Laboratory ID:	08-218-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
2-Hexanone	ND	2.0	EPA 8260D	8-21-23	8-21-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-21-23	8-21-23	
o-Xylene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Styrene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Bromoform	ND	1.0	EPA 8260D	8-21-23	8-21-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Bromobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-21-23	8-21-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-21-23	8-21-23	
Naphthalene	ND	1.0	EPA 8260D	8-21-23	8-21-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

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Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0821W1					
Dichlorodifluoromethane	ND	0.29	EPA 8260D	8-21-23	8-21-23	
Chloromethane	ND	1.0	EPA 8260D	8-21-23	8-21-23	
Vinyl Chloride	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Bromomethane	ND	1.0	EPA 8260D	8-21-23	8-21-23	
Chloroethane	ND	1.0	EPA 8260D	8-21-23	8-21-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Acetone	ND	5.0	EPA 8260D	8-21-23	8-21-23	
Iodomethane	ND	7.7	EPA 8260D	8-21-23	8-21-23	
Carbon Disulfide	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Methylene Chloride	ND	1.0	EPA 8260D	8-21-23	8-21-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Vinyl Acetate	ND	1.0	EPA 8260D	8-21-23	8-21-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
2-Butanone	ND	5.0	EPA 8260D	8-21-23	8-21-23	
Bromochloromethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Chloroform	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Benzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Trichloroethene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Dibromomethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Bromodichloromethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	8-21-23	8-21-23	
Toluene	ND	1.0	EPA 8260D	8-21-23	8-21-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	8-21-23	8-21-23	

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Laboratory Reference: 2308-218
Project: Burrows Island

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QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0821W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Tetrachloroethene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
2-Hexanone	ND	2.0	EPA 8260D	8-21-23	8-21-23	
Dibromochloromethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Chlorobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Ethylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
m,p-Xylene	ND	0.40	EPA 8260D	8-21-23	8-21-23	
o-Xylene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Styrene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Bromoform	ND	1.0	EPA 8260D	8-21-23	8-21-23	
Isopropylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Bromobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	8-21-23	8-21-23	
n-Propylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
n-Butylbenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	8-21-23	8-21-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	8-21-23	8-21-23	
Naphthalene	ND	1.0	EPA 8260D	8-21-23	8-21-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	8-21-23	8-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*75-127*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

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Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0821W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**6.91**	**6.83**	10.0	10.0	69	68	34-166	1	21	
Chloromethane	**9.44**	**9.87**	10.0	10.0	94	99	63-138	4	18	
Vinyl Chloride	**10.4**	**10.2**	10.0	10.0	104	102	71-135	2	20	
Bromomethane	**10.4**	**11.1**	10.0	10.0	104	111	20-151	7	36	
Chloroethane	**9.58**	**9.06**	10.0	10.0	96	91	76-125	6	20	
Trichlorofluoromethane	**9.28**	**9.43**	10.0	10.0	93	94	75-131	2	19	
1,1-Dichloroethene	**9.31**	**9.21**	10.0	10.0	93	92	78-125	1	19	
Acetone	**9.19**	**9.16**	10.0	10.0	92	92	76-125	0	18	
Iodomethane	**6.52**	**7.15**	10.0	10.0	65	72	10-155	9	40	
Carbon Disulfide	**8.74**	**8.16**	10.0	10.0	87	82	58-129	7	17	
Methylene Chloride	**8.90**	**9.38**	10.0	10.0	89	94	80-120	5	15	
(trans) 1,2-Dichloroethene	**9.48**	**9.58**	10.0	10.0	95	96	80-125	1	17	
Methyl t-Butyl Ether	**9.33**	**9.47**	10.0	10.0	93	95	80-122	1	15	
1,1-Dichloroethane	**9.37**	**9.46**	10.0	10.0	94	95	80-125	1	17	
Vinyl Acetate	**9.85**	**9.43**	10.0	10.0	99	94	80-131	4	15	
2,2-Dichloropropane	**11.9**	**12.0**	10.0	10.0	119	120	80-146	1	21	
(cis) 1,2-Dichloroethene	**9.78**	**9.88**	10.0	10.0	98	99	80-129	1	17	
2-Butanone	**9.20**	**9.54**	10.0	10.0	92	95	80-129	4	16	
Bromochloromethane	**9.71**	**10.0**	10.0	10.0	97	100	80-125	3	18	
Chloroform	**9.40**	**9.40**	10.0	10.0	94	94	80-123	0	16	
1,1,1-Trichloroethane	**9.49**	**9.49**	10.0	10.0	95	95	80-123	0	18	
Carbon Tetrachloride	**9.40**	**9.45**	10.0	10.0	94	95	80-126	1	17	
1,1-Dichloropropene	**9.42**	**9.42**	10.0	10.0	94	94	80-126	0	18	
Benzene	**9.62**	**9.56**	10.0	10.0	96	96	80-121	1	16	
1,2-Dichloroethane	**9.38**	**9.44**	10.0	10.0	94	94	80-124	1	15	
Trichloroethene	**9.73**	**9.46**	10.0	10.0	97	95	80-122	3	18	
1,2-Dichloropropane	**9.94**	**9.92**	10.0	10.0	99	99	80-123	0	15	
Dibromomethane	**9.71**	**9.90**	10.0	10.0	97	99	80-123	2	15	
Bromodichloromethane	**10.7**	**10.6**	10.0	10.0	107	106	80-125	1	15	
(cis) 1,3-Dichloropropene	**11.7**	**11.6**	10.0	10.0	117	116	80-129	1	15	
Methyl Isobutyl Ketone	**10.9**	**10.3**	10.0	10.0	109	103	80-124	6	15	
Toluene	**9.25**	**9.09**	10.0	10.0	93	91	80-120	2	18	
(trans) 1,3-Dichloropropene	**11.4**	**11.3**	10.0	10.0	114	113	80-134	1	17	

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0821W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**11.1**	**10.8**	10.0	10.0	111	108	77-126	3	20	
Tetrachloroethene	**10.2**	**10.1**	10.0	10.0	102	101	80-124	1	18	
1,3-Dichloropropane	**10.5**	**10.5**	10.0	10.0	105	105	80-120	0	15	
2-Hexanone	**11.0**	**10.6**	10.0	10.0	110	106	80-130	4	16	
Dibromochloromethane	**10.1**	**9.70**	10.0	10.0	101	97	80-128	4	15	
1,2-Dibromoethane	**11.4**	**11.1**	10.0	10.0	114	111	80-127	3	15	
Chlorobenzene	**10.8**	**10.7**	10.0	10.0	108	107	80-120	1	17	
1,1,1,2-Tetrachloroethane	**11.7**	**11.7**	10.0	10.0	117	117	80-125	0	17	
Ethylbenzene	**11.0**	**10.9**	10.0	10.0	110	109	80-125	1	18	
m,p-Xylene	**22.0**	**21.9**	20.0	20.0	110	110	80-127	0	18	
o-Xylene	**10.8**	**10.6**	10.0	10.0	108	106	80-126	2	18	
Styrene	**11.4**	**11.1**	10.0	10.0	114	111	80-130	3	17	
Bromoform	**12.2**	**11.8**	10.0	10.0	122	118	80-130	3	15	
Isopropylbenzene	**10.9**	**10.9**	10.0	10.0	109	109	80-129	0	18	
Bromobenzene	**11.1**	**11.5**	10.0	10.0	111	115	76-128	4	16	
1,1,2,2-Tetrachloroethane	**12.7**	**12.7**	10.0	10.0	127	127	74-130	0	15	
1,2,3-Trichloropropane	**11.9**	**9.62**	10.0	10.0	119	96	71-129	21	25	
n-Propylbenzene	**12.1**	**12.4**	10.0	10.0	121	124	80-129	2	19	
2-Chlorotoluene	**11.6**	**11.6**	10.0	10.0	116	116	80-128	0	18	
4-Chlorotoluene	**12.4**	**12.2**	10.0	10.0	124	122	80-130	2	19	
1,3,5-Trimethylbenzene	**12.0**	**11.8**	10.0	10.0	120	118	80-131	2	18	
tert-Butylbenzene	**11.6**	**11.7**	10.0	10.0	116	117	80-130	1	18	
1,2,4-Trimethylbenzene	**11.7**	**11.8**	10.0	10.0	117	118	80-130	1	18	
sec-Butylbenzene	**12.0**	**12.1**	10.0	10.0	120	121	80-130	1	18	
1,3-Dichlorobenzene	**11.5**	**11.7**	10.0	10.0	115	117	80-126	2	17	
p-Isopropyltoluene	**12.4**	**12.3**	10.0	10.0	124	123	80-132	1	18	
1,4-Dichlorobenzene	**11.5**	**11.5**	10.0	10.0	115	115	80-121	0	17	
1,2-Dichlorobenzene	**11.0**	**11.0**	10.0	10.0	110	110	79-125	0	15	
n-Butylbenzene	**13.3**	**13.6**	10.0	10.0	133	136	80-138	2	19	
1,2-Dibromo-3-chloropropane	**11.1**	**11.6**	10.0	10.0	111	116	73-133	4	15	
1,2,4-Trichlorobenzene	**12.6**	**13.1**	10.0	10.0	126	131	80-139	4	18	
Hexachlorobutadiene	**12.4**	**12.9**	10.0	10.0	124	129	80-151	4	18	
Naphthalene	**11.8**	**12.5**	10.0	10.0	118	125	68-144	6	25	
1,2,3-Trichlorobenzene	**12.3**	**12.6**	10.0	10.0	123	126	75-146	2	28	
Surrogate:										
Dibromofluoromethane					*90*	*93*	*75-127*			
Toluene-d8					*97*	*96*	*80-127*			
4-Bromofluorobenzene					*104*	*103*	*78-125*			

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

SEMIVOLATILE ORGANICS EPA 8270E/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-1**					
Laboratory ID:	08-218-01					
n-Nitrosodimethylamine	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Pyridine	**ND**	0.35	EPA 8270E	8-24-23	8-24-23	
Phenol	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Aniline	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroethyl)ether	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2-Chlorophenol	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
1,3-Dichlorobenzene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
1,4-Dichlorobenzene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Benzyl alcohol	**ND**	0.070	EPA 8270E	8-24-23	8-24-23	
1,2-Dichlorobenzene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2-Methylphenol (o-Cresol)	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroisopropyl)ether	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
n-Nitroso-di-n-propylamine	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Hexachloroethane	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Nitrobenzene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Isophorone	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2-Nitrophenol	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2,4-Dimethylphenol	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroethoxy)methane	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2,4-Dichlorophenol	**ND**	0.070	EPA 8270E	8-24-23	8-24-23	
1,2,4-Trichlorobenzene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Naphthalene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
4-Chloroaniline	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
Hexachlorobutadiene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
4-Chloro-3-methylphenol	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2-Methylnaphthalene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
1-Methylnaphthalene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
Hexachlorocyclopentadiene	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
2,4,6-Trichlorophenol	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2,3-Dichloroaniline	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2,4,5-Trichlorophenol	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2-Chloronaphthalene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2-Nitroaniline	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
1,4-Dinitrobenzene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Dimethylphthalate	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
1,3-Dinitrobenzene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2,6-Dinitrotoluene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
1,2-Dinitrobenzene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Acenaphthylene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
3-Nitroaniline	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	

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Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-1**					
Laboratory ID:	08-218-01					
2,4-Dinitrophenol	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
Acenaphthene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
4-Nitrophenol	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2,4-Dinitrotoluene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Dibenzofuran	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Diethylphthalate	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
4-Chlorophenyl-phenylether	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
4-Nitroaniline	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Fluorene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
4,6-Dinitro-2-methylphenol	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
n-Nitrosodiphenylamine	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
1,2-Diphenylhydrazine	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
4-Bromophenyl-phenylether	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Hexachlorobenzene	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Pentachlorophenol	**ND**	0.070	EPA 8270E	8-24-23	8-24-23	
Phenanthrene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
Anthracene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
Carbazole	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Di-n-butylphthalate	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
Fluoranthene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
Pyrene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
Butylbenzylphthalate	**ND**	0.070	EPA 8270E	8-24-23	8-24-23	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
3,3'-Dichlorobenzidine	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
Benzo[a]anthracene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
Chrysene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
Di-n-octylphthalate	**ND**	0.035	EPA 8270E	8-24-23	8-24-23	
Benzo[b]fluoranthene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo(j,k)fluoranthene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[a]pyrene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
Dibenz[a,h]anthracene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[g,h,i]perylene	**ND**	0.0070	EPA 8270E/SIM	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*80*	*11 - 111*				
Phenol-d6	*84*	*26 - 117*				
Nitrobenzene-d5	*82*	*31 - 111*				
2-Fluorobiphenyl	*88*	*38 - 109*				
2,4,6-Tribromophenol	*83*	*27 - 127*				
Terphenyl-d14	*93*	*37 - 116*				

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Laboratory Reference: 2308-218
Project: Burrows Island

SEMIVOLATILE ORGANICS EPA 8270E/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-2**					
Laboratory ID:	08-218-02					
n-Nitrosodimethylamine	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Pyridine	**ND**	0.34	EPA 8270E	8-24-23	8-24-23	
Phenol	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Aniline	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroethyl)ether	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2-Chlorophenol	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
1,3-Dichlorobenzene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
1,4-Dichlorobenzene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Benzyl alcohol	**ND**	0.069	EPA 8270E	8-24-23	8-24-23	
1,2-Dichlorobenzene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2-Methylphenol (o-Cresol)	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroisopropyl)ether	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
n-Nitroso-di-n-propylamine	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Hexachloroethane	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Nitrobenzene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Isophorone	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2-Nitrophenol	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2,4-Dimethylphenol	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroethoxy)methane	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2,4-Dichlorophenol	**ND**	0.069	EPA 8270E	8-24-23	8-24-23	
1,2,4-Trichlorobenzene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Naphthalene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
4-Chloroaniline	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
Hexachlorobutadiene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
4-Chloro-3-methylphenol	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2-Methylnaphthalene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
1-Methylnaphthalene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
Hexachlorocyclopentadiene	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
2,4,6-Trichlorophenol	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2,3-Dichloroaniline	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2,4,5-Trichlorophenol	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2-Chloronaphthalene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2-Nitroaniline	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
1,4-Dinitrobenzene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Dimethylphthalate	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
1,3-Dinitrobenzene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2,6-Dinitrotoluene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
1,2-Dinitrobenzene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Acenaphthylene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
3-Nitroaniline	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	

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Project: Burrows Island

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-2**					
Laboratory ID:	08-218-02					
2,4-Dinitrophenol	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
Acenaphthene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
4-Nitrophenol	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2,4-Dinitrotoluene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Dibenzofuran	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Diethylphthalate	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
4-Chlorophenyl-phenylether	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
4-Nitroaniline	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Fluorene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
4,6-Dinitro-2-methylphenol	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
n-Nitrosodiphenylamine	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
1,2-Diphenylhydrazine	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
4-Bromophenyl-phenylether	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Hexachlorobenzene	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Pentachlorophenol	**ND**	0.069	EPA 8270E	8-24-23	8-24-23	
Phenanthrene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
Anthracene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
Carbazole	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Di-n-butylphthalate	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
Fluoranthene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
Pyrene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
Butylbenzylphthalate	**ND**	0.068	EPA 8270E	8-24-23	8-24-23	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
3,3'-Dichlorobenzidine	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
Benzo[a]anthracene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
Chrysene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270E	8-24-23	8-24-23	
Di-n-octylphthalate	**ND**	0.034	EPA 8270E	8-24-23	8-24-23	
Benzo[b]fluoranthene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo(j,k)fluoranthene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[a]pyrene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
Dibenz[a,h]anthracene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[g,h,i]perylene	**ND**	0.0069	EPA 8270E/SIM	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*52*	*11 - 111*				
Phenol-d6	*52*	*26 - 117*				
Nitrobenzene-d5	*50*	*31 - 111*				
2-Fluorobiphenyl	*61*	*38 - 109*				
2,4,6-Tribromophenol	*63*	*27 - 127*				
Terphenyl-d14	*65*	*37 - 116*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

SEMIVOLATILE ORGANICS EPA 8270E/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TOP-COMP-1**					
Laboratory ID:	08-218-03					
n-Nitrosodimethylamine	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Pyridine	**ND**	0.36	EPA 8270E	8-24-23	8-24-23	
Phenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Aniline	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroethyl)ether	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2-Chlorophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
1,3-Dichlorobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
1,4-Dichlorobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Benzyl alcohol	**ND**	0.072	EPA 8270E	8-24-23	8-24-23	
1,2-Dichlorobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2-Methylphenol (o-Cresol)	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroisopropyl)ether	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
n-Nitroso-di-n-propylamine	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Hexachloroethane	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Nitrobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Isophorone	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2-Nitrophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,4-Dimethylphenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroethoxy)methane	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,4-Dichlorophenol	**ND**	0.072	EPA 8270E	8-24-23	8-24-23	
1,2,4-Trichlorobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Naphthalene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
4-Chloroaniline	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
Hexachlorobutadiene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
4-Chloro-3-methylphenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2-Methylnaphthalene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
1-Methylnaphthalene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Hexachlorocyclopentadiene	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
2,4,6-Trichlorophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,3-Dichloroaniline	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,4,5-Trichlorophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2-Chloronaphthalene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2-Nitroaniline	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
1,4-Dinitrobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Dimethylphthalate	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
1,3-Dinitrobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,6-Dinitrotoluene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
1,2-Dinitrobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Acenaphthylene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
3-Nitroaniline	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

SEMIVOLATILE ORGANICS EPA 8270E/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TOP-COMP-1**					
Laboratory ID:	08-218-03					
2,4-Dinitrophenol	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
Acenaphthene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
4-Nitrophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,4-Dinitrotoluene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Dibenzofuran	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Diethylphthalate	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
4-Chlorophenyl-phenylether	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
4-Nitroaniline	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Fluorene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
4,6-Dinitro-2-methylphenol	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
n-Nitrosodiphenylamine	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
1,2-Diphenylhydrazine	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
4-Bromophenyl-phenylether	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Hexachlorobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Pentachlorophenol	**ND**	0.072	EPA 8270E	8-24-23	8-24-23	
Phenanthrene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Anthracene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Carbazole	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Di-n-butylphthalate	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
Fluoranthene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Pyrene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Butylbenzylphthalate	**ND**	0.072	EPA 8270E	8-24-23	8-24-23	
bis-2-Ethylhexyladipate	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
3,3'-Dichlorobenzidine	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
Benzo[a]anthracene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Chrysene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
Di-n-octylphthalate	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Benzo[b]fluoranthene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo(j,k)fluoranthene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[a]pyrene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Dibenz[a,h]anthracene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[g,h,i]perylene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*60*	*11 - 111*				
Phenol-d6	*57*	*26 - 117*				
Nitrobenzene-d5	*69*	*31 - 111*				
2-Fluorobiphenyl	*75*	*38 - 109*				
2,4,6-Tribromophenol	*71*	*27 - 127*				
Terphenyl-d14	*71*	*37 - 116*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

SEMIVOLATILE ORGANICS EPA 8270E/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TOP-COMP-2**					
Laboratory ID:	08-218-04					
n-Nitrosodimethylamine	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Pyridine	**ND**	0.36	EPA 8270E	8-24-23	8-24-23	
Phenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Aniline	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroethyl)ether	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2-Chlorophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
1,3-Dichlorobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
1,4-Dichlorobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Benzyl alcohol	**ND**	0.072	EPA 8270E	8-24-23	8-24-23	
1,2-Dichlorobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2-Methylphenol (o-Cresol)	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroisopropyl)ether	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
n-Nitroso-di-n-propylamine	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Hexachloroethane	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Nitrobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Isophorone	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2-Nitrophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,4-Dimethylphenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroethoxy)methane	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,4-Dichlorophenol	**ND**	0.072	EPA 8270E	8-24-23	8-24-23	
1,2,4-Trichlorobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Naphthalene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
4-Chloroaniline	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
Hexachlorobutadiene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
4-Chloro-3-methylphenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2-Methylnaphthalene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
1-Methylnaphthalene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Hexachlorocyclopentadiene	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
2,4,6-Trichlorophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,3-Dichloroaniline	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,4,5-Trichlorophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2-Chloronaphthalene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2-Nitroaniline	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
1,4-Dinitrobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Dimethylphthalate	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
1,3-Dinitrobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,6-Dinitrotoluene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
1,2-Dinitrobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Acenaphthylene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
3-Nitroaniline	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

SEMIVOLATILE ORGANICS EPA 8270E/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TOP-COMP-2**					
Laboratory ID:	08-218-04					
2,4-Dinitrophenol	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
Acenaphthene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
4-Nitrophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,4-Dinitrotoluene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Dibenzofuran	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Diethylphthalate	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
4-Chlorophenyl-phenylether	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
4-Nitroaniline	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Fluorene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
4,6-Dinitro-2-methylphenol	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
n-Nitrosodiphenylamine	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
1,2-Diphenylhydrazine	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
4-Bromophenyl-phenylether	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Hexachlorobenzene	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Pentachlorophenol	**ND**	0.072	EPA 8270E	8-24-23	8-24-23	
Phenanthrene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Anthracene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Carbazole	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Di-n-butylphthalate	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
Fluoranthene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Pyrene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Butylbenzylphthalate	**ND**	0.072	EPA 8270E	8-24-23	8-24-23	
bis-2-Ethylhexyladipate	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
3,3'-Dichlorobenzidine	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
Benzo[a]anthracene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Chrysene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.18	EPA 8270E	8-24-23	8-24-23	
Di-n-octylphthalate	**ND**	0.036	EPA 8270E	8-24-23	8-24-23	
Benzo[b]fluoranthene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo(j,k)fluoranthene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[a]pyrene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Dibenz[a,h]anthracene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[g,h,i]perylene	**ND**	0.0072	EPA 8270E/SIM	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*68*	*11 - 111*				
Phenol-d6	*64*	*26 - 117*				
Nitrobenzene-d5	*73*	*31 - 111*				
2-Fluorobiphenyl	*83*	*38 - 109*				
2,4,6-Tribromophenol	*73*	*27 - 127*				
Terphenyl-d14	*75*	*37 - 116*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824S1					
n-Nitrosodimethylamine	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Pyridine	**ND**	0.20	EPA 8270E	8-24-23	8-24-23	
Phenol	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Aniline	**ND**	0.10	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroethyl)ether	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2-Chlorophenol	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
1,3-Dichlorobenzene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
1,4-Dichlorobenzene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Benzyl alcohol	**ND**	0.040	EPA 8270E	8-24-23	8-24-23	
1,2-Dichlorobenzene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2-Methylphenol (o-Cresol)	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroisopropyl)ether	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
n-Nitroso-di-n-propylamine	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Hexachloroethane	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Nitrobenzene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Isophorone	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2-Nitrophenol	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2,4-Dimethylphenol	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
bis(2-Chloroethoxy)methane	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2,4-Dichlorophenol	**ND**	0.040	EPA 8270E	8-24-23	8-24-23	
1,2,4-Trichlorobenzene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Naphthalene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
4-Chloroaniline	**ND**	0.10	EPA 8270E	8-24-23	8-24-23	
Hexachlorobutadiene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
4-Chloro-3-methylphenol	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2-Methylnaphthalene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
1-Methylnaphthalene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
Hexachlorocyclopentadiene	**ND**	0.10	EPA 8270E	8-24-23	8-24-23	
2,4,6-Trichlorophenol	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2,3-Dichloroaniline	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2,4,5-Trichlorophenol	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2-Chloronaphthalene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2-Nitroaniline	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
1,4-Dinitrobenzene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Dimethylphthalate	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
1,3-Dinitrobenzene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2,6-Dinitrotoluene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
1,2-Dinitrobenzene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Acenaphthylene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
3-Nitroaniline	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0824S1					
2,4-Dinitrophenol	**ND**	0.10	EPA 8270E	8-24-23	8-24-23	
Acenaphthene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
4-Nitrophenol	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2,4-Dinitrotoluene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Dibenzofuran	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Diethylphthalate	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
4-Chlorophenyl-phenylether	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
4-Nitroaniline	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Fluorene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
4,6-Dinitro-2-methylphenol	**ND**	0.10	EPA 8270E	8-24-23	8-24-23	
n-Nitrosodiphenylamine	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
1,2-Diphenylhydrazine	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
4-Bromophenyl-phenylether	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Hexachlorobenzene	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Pentachlorophenol	**ND**	0.040	EPA 8270E	8-24-23	8-24-23	
Phenanthrene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
Anthracene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
Carbazole	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Di-n-butylphthalate	**ND**	0.10	EPA 8270E	8-24-23	8-24-23	
Fluoranthene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
Pyrene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
Butylbenzylphthalate	**ND**	0.040	EPA 8270E	8-24-23	8-24-23	
bis-2-Ethylhexyladipate	**ND**	0.10	EPA 8270E	8-24-23	8-24-23	
3,3'-Dichlorobenzidine	**ND**	0.10	EPA 8270E	8-24-23	8-24-23	
Benzo[a]anthracene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
Chrysene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.10	EPA 8270E	8-24-23	8-24-23	
Di-n-octylphthalate	**ND**	0.020	EPA 8270E	8-24-23	8-24-23	
Benzo[b]fluoranthene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo(j,k)fluoranthene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[a]pyrene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
Dibenz[a,h]anthracene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
Benzo[g,h,i]perylene	**ND**	0.0040	EPA 8270E/SIM	8-24-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*80*	*11 - 111*				
Phenol-d6	*78*	*26 - 117*				
Nitrobenzene-d5	*80*	*31 - 111*				
2-Fluorobiphenyl	*89*	*38 - 109*				
2,4,6-Tribromophenol	*89*	*27 - 127*				
Terphenyl-d14	*88*	*37 - 116*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-218-01										
	MS	MSD	MS	MSD		MS	MSD				
n-Nitrosodimethylamine	**0.475**	**0.513**	0.667	0.667	ND	71	77	20 - 120	8	30	
Pyridine	**0.419**	**0.420**	0.667	0.667	ND	63	63	20 - 120	0	30	
Phenol	**0.512**	**0.525**	0.667	0.667	ND	77	79	28 - 112	3	39	
Aniline	**0.519**	**0.554**	0.667	0.667	ND	78	83	20 - 120	7	30	
bis(2-Chloroethyl)ether	**0.494**	**0.512**	0.667	0.667	ND	74	77	20 - 120	4	30	
2-Chlorophenol	**0.523**	**0.538**	0.667	0.667	ND	78	81	30 - 108	3	40	
1,3-Dichlorobenzene	**0.497**	**0.511**	0.667	0.667	ND	75	77	20 - 120	3	30	
1,4-Dichlorobenzene	**0.480**	**0.489**	0.667	0.667	ND	72	73	25 - 106	2	44	
Benzyl alcohol	**0.555**	**0.589**	0.667	0.667	ND	83	88	20 - 120	6	30	
1,2-Dichlorobenzene	**0.521**	**0.530**	0.667	0.667	ND	78	79	20 - 120	2	30	
2-Methylphenol (o-Cresol)	**0.543**	**0.531**	0.667	0.667	ND	81	80	20 - 120	2	30	
bis(2-Chloroisopropyl)ether	**0.467**	**0.454**	0.667	0.667	ND	70	68	20 - 120	3	30	
(3+4)-Methylphenol (m,p-Cresol)	**0.540**	**0.570**	0.667	0.667	ND	81	85	20 - 120	5	30	
n-Nitroso-di-n-propylamine	**0.539**	**0.558**	0.667	0.667	ND	81	84	32 - 112	3	42	
Hexachloroethane	**0.438**	**0.467**	0.667	0.667	ND	66	70	20 - 120	6	30	
Nitrobenzene	**0.511**	**0.522**	0.667	0.667	ND	77	78	20 - 120	2	30	
Isophorone	**0.517**	**0.551**	0.667	0.667	ND	78	83	20 - 120	6	30	
2-Nitrophenol	**0.526**	**0.567**	0.667	0.667	ND	79	85	20 - 120	8	30	
2,4-Dimethylphenol	**0.574**	**0.620**	0.667	0.667	ND	86	93	20 - 120	8	30	
bis(2-Chloroethoxy)methane	**0.516**	**0.555**	0.667	0.667	ND	77	83	20 - 120	7	30	
2,4-Dichlorophenol	**0.539**	**0.570**	0.667	0.667	ND	81	85	20 - 120	6	30	
1,2,4-Trichlorobenzene	**0.512**	**0.525**	0.667	0.667	ND	77	79	30 - 110	3	40	
Naphthalene	**0.521**	**0.539**	0.667	0.667	ND	78	81	20 - 120	3	30	
4-Chloroaniline	**0.523**	**0.561**	0.667	0.667	ND	78	84	20 - 120	7	30	
Hexachlorobutadiene	**0.487**	**0.536**	0.667	0.667	ND	73	80	20 - 120	10	30	
4-Chloro-3-methylphenol	**0.530**	**0.546**	0.667	0.667	ND	79	82	44 - 112	3	28	
2-Methylnaphthalene	**0.518**	**0.559**	0.667	0.667	ND	78	84	20 - 120	8	30	
1-Methylnaphthalene	**0.506**	**0.548**	0.667	0.667	ND	76	82	20 - 120	8	30	
Hexachlorocyclopentadiene	**0.257**	**0.275**	0.667	0.667	ND	39	41	20 - 120	7	30	
2,4,6-Trichlorophenol	**0.539**	**0.542**	0.667	0.667	ND	81	81	20 - 120	1	30	
2,3-Dichloroaniline	**0.474**	**0.484**	0.667	0.667	ND	71	73	20 - 120	2	30	
2,4,5-Trichlorophenol	**0.548**	**0.597**	0.667	0.667	ND	82	90	20 - 120	9	30	
2-Chloronaphthalene	**0.521**	**0.558**	0.667	0.667	ND	78	84	20 - 120	7	30	
2-Nitroaniline	**0.532**	**0.575**	0.667	0.667	ND	80	86	20 - 120	8	30	
1,4-Dinitrobenzene	**0.550**	**0.573**	0.667	0.667	ND	82	86	20 - 120	4	30	
Dimethylphthalate	**0.485**	**0.584**	0.667	0.667	ND	73	88	20 - 120	19	30	
1,3-Dinitrobenzene	**0.551**	**0.551**	0.667	0.667	ND	83	83	20 - 120	0	30	
2,6-Dinitrotoluene	**0.512**	**0.588**	0.667	0.667	ND	77	88	20 - 120	14	30	
1,2-Dinitrobenzene	**0.521**	**0.594**	0.667	0.667	ND	78	89	20 - 120	13	30	
Acenaphthylene	**0.527**	**0.563**	0.667	0.667	ND	79	84	20 - 120	7	30	
3-Nitroaniline	**0.553**	**0.612**	0.667	0.667	ND	83	92	20 - 120	10	30	

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-218-01										
	MS	MSD	MS	MSD		MS	MSD				
2,4-Dinitrophenol	**0.257**	**0.272**	0.667	0.667	ND	39	41	20 - 120	6	30	
Acenaphthene	**0.515**	**0.568**	0.667	0.667	ND	77	85	34 - 107	10	33	
4-Nitrophenol	**0.529**	**0.573**	0.667	0.667	ND	79	86	33 - 140	8	34	
2,4-Dinitrotoluene	**0.501**	**0.550**	0.667	0.667	ND	75	82	38 - 111	9	31	
Dibenzofuran	**0.506**	**0.536**	0.667	0.667	ND	76	80	20 - 120	6	30	
2,3,5,6-Tetrachlorophenol	**0.491**	**0.549**	0.667	0.667	ND	74	82	20 - 120	11	30	
2,3,4,6-Tetrachlorophenol	**0.493**	**0.535**	0.667	0.667	ND	74	80	20 - 120	8	30	
Diethylphthalate	**0.519**	**0.574**	0.667	0.667	ND	78	86	20 - 120	10	30	
4-Chlorophenyl-phenylether	**0.509**	**0.554**	0.667	0.667	ND	76	83	20 - 120	8	30	
4-Nitroaniline	**0.517**	**0.552**	0.667	0.667	ND	78	83	20 - 120	7	30	
Fluorene	**0.522**	**0.564**	0.667	0.667	ND	78	85	20 - 120	8	30	
4,6-Dinitro-2-methylphenol	**0.297**	**0.322**	0.667	0.667	ND	45	48	20 - 120	8	30	
n-Nitrosodiphenylamine	**0.498**	**0.544**	0.667	0.667	ND	75	82	20 - 120	9	30	
1,2-Diphenylhydrazine	**0.515**	**0.539**	0.667	0.667	ND	77	81	20 - 120	5	30	
4-Bromophenyl-phenylether	**0.521**	**0.554**	0.667	0.667	ND	78	83	20 - 120	6	30	
Hexachlorobenzene	**0.525**	**0.595**	0.667	0.667	ND	79	89	20 - 120	13	30	
Pentachlorophenol	**0.562**	**0.614**	0.667	0.667	ND	84	92	27 - 141	9	36	
Phenanthrene	**0.530**	**0.574**	0.667	0.667	ND	79	86	20 - 120	8	30	
Anthracene	**0.516**	**0.575**	0.667	0.667	ND	77	86	20 - 120	11	30	
Carbazole	**0.540**	**0.578**	0.667	0.667	ND	81	87	20 - 120	7	30	
Di-n-butylphthalate	**0.538**	**0.572**	0.667	0.667	ND	81	86	20 - 120	6	30	
Fluoranthene	**0.530**	**0.580**	0.667	0.667	ND	79	87	20 - 120	9	30	
Pyrene	**0.511**	**0.583**	0.667	0.667	ND	77	87	28 - 126	13	33	
Butylbenzylphthalate	**0.529**	**0.579**	0.667	0.667	ND	79	87	20 - 120	9	30	
bis-2-Ethylhexyladipate	**0.516**	**0.559**	0.667	0.667	ND	77	84	20 - 120	8	30	
3,3'-Dichlorobenzidine	**0.462**	**0.514**	0.667	0.667	ND	69	77	20 - 120	11	30	
Benzo[a]anthracene	**0.501**	**0.582**	0.667	0.667	ND	75	87	20 - 120	15	30	
Chrysene	**0.501**	**0.576**	0.667	0.667	ND	75	86	20 - 120	14	30	
bis(2-Ethylhexyl)phthalate	**0.518**	**0.562**	0.667	0.667	ND	78	84	20 - 120	8	30	
Di-n-octylphthalate	**0.526**	**0.588**	0.667	0.667	ND	79	88	20 - 120	11	30	
Benzo[b]fluoranthene	**0.533**	**0.578**	0.667	0.667	ND	80	87	20 - 120	8	30	
Benzo(j,k)fluoranthene	**0.499**	**0.587**	0.667	0.667	ND	75	88	20 - 120	16	30	
Benzo[a]pyrene	**0.544**	**0.588**	0.667	0.667	ND	82	88	20 - 120	8	30	
Indeno[1,2,3-cd]pyrene	**0.512**	**0.594**	0.667	0.667	ND	77	89	20 - 120	15	30	
Dibenz[a,h]anthracene	**0.532**	**0.584**	0.667	0.667	ND	80	88	20 - 120	9	30	
Benzo[g,h,i]perylene	**0.531**	**0.577**	0.667	0.667	ND	80	87	20 - 120	8	30	
Surrogate:											
2-Fluorophenol						*77*	*75*	*11 - 111*			
Phenol-d6						*77*	*81*	*26 - 117*			
Nitrobenzene-d5						*76*	*72*	*31 - 111*			
2-Fluorobiphenyl						*79*	*84*	*38 - 109*			
2,4,6-Tribromophenol						*79*	*86*	*27 - 127*			
Terphenyl-d14						*77*	*81*	*37 - 116*			

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-1**					
Laboratory ID:	08-218-01					
Aroclor 1016	**ND**	0.052	EPA 8082A	8-21-23	8-23-23	
Aroclor 1221	**ND**	0.052	EPA 8082A	8-21-23	8-23-23	
Aroclor 1232	**ND**	0.052	EPA 8082A	8-21-23	8-23-23	
Aroclor 1242	**ND**	0.052	EPA 8082A	8-21-23	8-23-23	
Aroclor 1248	**ND**	0.052	EPA 8082A	8-21-23	8-23-23	
Aroclor 1254	**ND**	0.052	EPA 8082A	8-21-23	8-23-23	
Aroclor 1260	**ND**	0.052	EPA 8082A	8-21-23	8-23-23	
Aroclor 1262	**ND**	0.052	EPA 8082A	8-21-23	8-23-23	
Aroclor 1268	**ND**	0.052	EPA 8082A	8-21-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*85*	*50-127*				
Client ID:	**SAND-COMP-2**					
Laboratory ID:	08-218-02					
Aroclor 1016	**ND**	0.051	EPA 8082A	8-21-23	8-23-23	
Aroclor 1221	**ND**	0.051	EPA 8082A	8-21-23	8-23-23	
Aroclor 1232	**ND**	0.051	EPA 8082A	8-21-23	8-23-23	
Aroclor 1242	**ND**	0.051	EPA 8082A	8-21-23	8-23-23	
Aroclor 1248	**ND**	0.051	EPA 8082A	8-21-23	8-23-23	
Aroclor 1254	**ND**	0.051	EPA 8082A	8-21-23	8-23-23	
Aroclor 1260	**ND**	0.051	EPA 8082A	8-21-23	8-23-23	
Aroclor 1262	**ND**	0.051	EPA 8082A	8-21-23	8-23-23	
Aroclor 1268	**ND**	0.051	EPA 8082A	8-21-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*85*	*50-127*				
Client ID:	**TOP-COMP-1**					
Laboratory ID:	08-218-03					
Aroclor 1016	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1221	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1232	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1242	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1248	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1254	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1260	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1262	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1268	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*82*	*50-127*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TOP-COMP-2**					
Laboratory ID:	08-218-04					
Aroclor 1016	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1221	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1232	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1242	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1248	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1254	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1260	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1262	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Aroclor 1268	**ND**	0.054	EPA 8082A	8-21-23	8-23-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*83*	*50-127*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0821S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	8-21-23	8-21-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	8-21-23	8-21-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	8-21-23	8-21-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	8-21-23	8-21-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	8-21-23	8-21-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	8-21-23	8-21-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	8-21-23	8-21-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	8-21-23	8-21-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	8-21-23	8-21-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*88*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-216-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.397**	**0.362**	0.500	0.500	ND	**79**	**72**	41-121	9	28	
Surrogate:											
DCB						*79*	*76*	*50-127*			

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-1**					
Laboratory ID:	08-218-01					
alpha-BHC	ND	5.2	EPA 8081B	8-21-23	8-24-23	
gamma-BHC	ND	5.2	EPA 8081B	8-21-23	8-24-23	
beta-BHC	ND	5.2	EPA 8081B	8-21-23	8-24-23	
delta-BHC	ND	5.2	EPA 8081B	8-21-23	8-24-23	
Heptachlor	ND	5.2	EPA 8081B	8-21-23	8-24-23	
Aldrin	ND	5.2	EPA 8081B	8-21-23	8-24-23	
Heptachlor epoxide	ND	5.2	EPA 8081B	8-21-23	8-24-23	
gamma-Chlordane	ND	10	EPA 8081B	8-21-23	8-24-23	
alpha-Chlordane	ND	10	EPA 8081B	8-21-23	8-24-23	
4,4'-DDE	ND	10	EPA 8081B	8-21-23	8-24-23	
Endosulfan I	ND	5.2	EPA 8081B	8-21-23	8-24-23	
Dieldrin	ND	10	EPA 8081B	8-21-23	8-24-23	
Endrin	ND	10	EPA 8081B	8-21-23	8-24-23	
4,4'-DDD	ND	10	EPA 8081B	8-21-23	8-24-23	
Endosulfan II	ND	10	EPA 8081B	8-21-23	8-24-23	
4,4'-DDT	ND	10	EPA 8081B	8-21-23	8-24-23	
Endrin aldehyde	ND	10	EPA 8081B	8-21-23	8-24-23	
Methoxychlor	ND	10	EPA 8081B	8-21-23	8-24-23	
Endosulfan sulfate	ND	10	EPA 8081B	8-21-23	8-24-23	
Endrin ketone	ND	10	EPA 8081B	8-21-23	8-24-23	
Toxaphene	ND	52	EPA 8081B	8-21-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*62*	*33-108*				
Decachlorobiphenyl	*66*	*27-120*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-2**					
Laboratory ID:	08-218-02					
alpha-BHC	ND	5.1	EPA 8081B	8-21-23	8-24-23	
gamma-BHC	ND	5.1	EPA 8081B	8-21-23	8-24-23	
beta-BHC	ND	5.1	EPA 8081B	8-21-23	8-24-23	
delta-BHC	ND	5.1	EPA 8081B	8-21-23	8-24-23	
Heptachlor	ND	5.1	EPA 8081B	8-21-23	8-24-23	
Aldrin	ND	5.1	EPA 8081B	8-21-23	8-24-23	
Heptachlor epoxide	ND	5.1	EPA 8081B	8-21-23	8-24-23	
gamma-Chlordane	ND	10	EPA 8081B	8-21-23	8-24-23	
alpha-Chlordane	ND	10	EPA 8081B	8-21-23	8-24-23	
4,4'-DDE	ND	10	EPA 8081B	8-21-23	8-24-23	
Endosulfan I	ND	5.1	EPA 8081B	8-21-23	8-24-23	
Dieldrin	ND	10	EPA 8081B	8-21-23	8-24-23	
Endrin	ND	10	EPA 8081B	8-21-23	8-24-23	
4,4'-DDD	ND	10	EPA 8081B	8-21-23	8-24-23	
Endosulfan II	ND	10	EPA 8081B	8-21-23	8-24-23	
4,4'-DDT	ND	10	EPA 8081B	8-21-23	8-24-23	
Endrin aldehyde	ND	10	EPA 8081B	8-21-23	8-24-23	
Methoxychlor	ND	10	EPA 8081B	8-21-23	8-24-23	
Endosulfan sulfate	ND	10	EPA 8081B	8-21-23	8-24-23	
Endrin ketone	ND	10	EPA 8081B	8-21-23	8-24-23	
Toxaphene	ND	51	EPA 8081B	8-21-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*61*	*33-108*				
Decachlorobiphenyl	*64*	*27-120*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TOP-COMP-1**					
Laboratory ID:	08-218-03					
alpha-BHC	ND	5.4	EPA 8081B	8-21-23	8-24-23	
gamma-BHC	ND	5.4	EPA 8081B	8-21-23	8-24-23	
beta-BHC	ND	5.4	EPA 8081B	8-21-23	8-24-23	
delta-BHC	ND	5.4	EPA 8081B	8-21-23	8-24-23	
Heptachlor	ND	5.4	EPA 8081B	8-21-23	8-24-23	
Aldrin	ND	5.4	EPA 8081B	8-21-23	8-24-23	
Heptachlor epoxide	ND	5.4	EPA 8081B	8-21-23	8-24-23	
gamma-Chlordane	ND	11	EPA 8081B	8-21-23	8-24-23	
alpha-Chlordane	ND	11	EPA 8081B	8-21-23	8-24-23	
4,4'-DDE	ND	11	EPA 8081B	8-21-23	8-24-23	
Endosulfan I	ND	5.4	EPA 8081B	8-21-23	8-24-23	
Dieldrin	ND	11	EPA 8081B	8-21-23	8-24-23	
Endrin	ND	11	EPA 8081B	8-21-23	8-24-23	
4,4'-DDD	ND	11	EPA 8081B	8-21-23	8-24-23	
Endosulfan II	ND	11	EPA 8081B	8-21-23	8-24-23	
4,4'-DDT	ND	11	EPA 8081B	8-21-23	8-24-23	
Endrin aldehyde	ND	11	EPA 8081B	8-21-23	8-24-23	
Methoxychlor	ND	11	EPA 8081B	8-21-23	8-24-23	Y1
Endosulfan sulfate	ND	11	EPA 8081B	8-21-23	8-24-23	
Endrin ketone	ND	11	EPA 8081B	8-21-23	8-24-23	
Toxaphene	ND	54	EPA 8081B	8-21-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*58*	*33-108*				
Decachlorobiphenyl	*56*	*27-120*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

ORGANOCHLORINE PESTICIDES EPA 8081B

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TOP-COMP-2**					
Laboratory ID:	08-218-04					
alpha-BHC	ND	5.4	EPA 8081B	8-21-23	8-24-23	
gamma-BHC	ND	5.4	EPA 8081B	8-21-23	8-24-23	
beta-BHC	ND	5.4	EPA 8081B	8-21-23	8-24-23	
delta-BHC	ND	5.4	EPA 8081B	8-21-23	8-24-23	
Heptachlor	ND	5.4	EPA 8081B	8-21-23	8-24-23	
Aldrin	ND	5.4	EPA 8081B	8-21-23	8-24-23	
Heptachlor epoxide	ND	5.4	EPA 8081B	8-21-23	8-24-23	
gamma-Chlordane	ND	11	EPA 8081B	8-21-23	8-24-23	
alpha-Chlordane	ND	11	EPA 8081B	8-21-23	8-24-23	
4,4'-DDE	ND	11	EPA 8081B	8-21-23	8-24-23	
Endosulfan I	ND	5.4	EPA 8081B	8-21-23	8-24-23	
Dieldrin	ND	11	EPA 8081B	8-21-23	8-24-23	
Endrin	ND	11	EPA 8081B	8-21-23	8-24-23	
4,4'-DDD	ND	11	EPA 8081B	8-21-23	8-24-23	
Endosulfan II	ND	11	EPA 8081B	8-21-23	8-24-23	
4,4'-DDT	ND	11	EPA 8081B	8-21-23	8-24-23	
Endrin aldehyde	ND	11	EPA 8081B	8-21-23	8-24-23	
Methoxychlor	ND	11	EPA 8081B	8-21-23	8-24-23	Y1
Endosulfan sulfate	ND	11	EPA 8081B	8-21-23	8-24-23	
Endrin ketone	ND	11	EPA 8081B	8-21-23	8-24-23	
Toxaphene	ND	54	EPA 8081B	8-21-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*57*	*33-108*				
Decachlorobiphenyl	*50*	*27-120*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

ORGANOCHLORINE PESTICIDES EPA 8081B QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0821S1					
alpha-BHC	ND	5.0	EPA 8081B	8-21-23	8-24-23	
gamma-BHC	ND	5.0	EPA 8081B	8-21-23	8-24-23	
beta-BHC	ND	5.0	EPA 8081B	8-21-23	8-24-23	
delta-BHC	ND	5.0	EPA 8081B	8-21-23	8-24-23	
Heptachlor	ND	5.0	EPA 8081B	8-21-23	8-24-23	
Aldrin	ND	5.0	EPA 8081B	8-21-23	8-24-23	
Heptachlor epoxide	ND	5.0	EPA 8081B	8-21-23	8-24-23	
gamma-Chlordane	ND	10	EPA 8081B	8-21-23	8-24-23	
alpha-Chlordane	ND	10	EPA 8081B	8-21-23	8-24-23	
4,4'-DDE	ND	10	EPA 8081B	8-21-23	8-24-23	
Endosulfan I	ND	5.0	EPA 8081B	8-21-23	8-24-23	
Dieldrin	ND	10	EPA 8081B	8-21-23	8-24-23	
Endrin	ND	10	EPA 8081B	8-21-23	8-24-23	
4,4'-DDD	ND	10	EPA 8081B	8-21-23	8-24-23	
Endosulfan II	ND	10	EPA 8081B	8-21-23	8-24-23	
4,4'-DDT	ND	10	EPA 8081B	8-21-23	8-24-23	
Endrin aldehyde	ND	10	EPA 8081B	8-21-23	8-24-23	
Methoxychlor	ND	10	EPA 8081B	8-21-23	8-24-23	
Endosulfan sulfate	ND	10	EPA 8081B	8-21-23	8-24-23	
Endrin ketone	ND	10	EPA 8081B	8-21-23	8-24-23	
Toxaphene	ND	50	EPA 8081B	8-21-23	8-24-23	
Surrogate:	*Percent Recovery*	*Control limits*				
Tetrachloro-m-xylene	*72*	*33-108*				
Decachlorobiphenyl	*72*	*27-120*				

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

ORGANOCHLORINE PESTICIDES EPA 8081B QUALITY CONTROL

Matrix: Soil
Units: ug/Kg (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	08-218-01										
	MS	MSD	MS	MSD		MS	MSD				
alpha-BHC	**72.1**	**65.2**	100	100	**ND**	**72**	**65**	31-115	10	22	
gamma-BHC	**73.3**	**67.6**	100	100	**ND**	**73**	**68**	27-120	8	23	
beta-BHC	**70.9**	**63.8**	100	100	**ND**	**71**	**64**	31-112	11	22	
delta-BHC	**64.2**	**57.7**	100	100	**ND**	**64**	**58**	33-118	11	22	
Heptachlor	**67.5**	**62.1**	100	100	**ND**	**68**	**62**	36-108	8	24	
Aldrin	**70.3**	**65.4**	100	100	**ND**	**70**	**65**	35-112	7	22	
Heptachlor epoxide	**69.5**	**63.5**	100	100	**ND**	**70**	**64**	33-116	9	21	
gamma-Chlordane	**71.2**	**65.0**	100	100	**ND**	**71**	**65**	23-116	9	21	
alpha-Chlordane	**71.9**	**64.9**	100	100	**ND**	**72**	**65**	21-112	10	21	
4,4'-DDE	**71.3**	**67.2**	100	100	**ND**	**71**	**67**	34-113	6	26	
Endosulfan I	**72.2**	**66.1**	100	100	**ND**	**72**	**66**	32-116	9	22	
Dieldrin	**72.8**	**67.3**	100	100	**ND**	**73**	**67**	26-119	8	22	
Endrin	**73.5**	**67.2**	100	100	**ND**	**74**	**67**	39-119	9	23	
4,4'-DDD	**81.6**	**74.5**	100	100	**ND**	**82**	**75**	31-131	9	29	
Endosulfan II	**74.3**	**68.1**	100	100	**ND**	**74**	**68**	36-116	9	21	
4,4'-DDT	**49.7**	**41.3**	100	100	**ND**	**50**	**41**	21-119	18	41	
Endrin aldehyde	**72.3**	**66.1**	100	100	**ND**	**72**	**66**	27-114	9	23	
Methoxychlor	**51.6**	**42.2**	100	100	**ND**	**52**	**42**	19-131	20	36	
Endosulfan sulfate	**70.6**	**63.5**	100	100	**ND**	**71**	**64**	33-113	11	24	
Endrin ketone	**70.7**	**63.1**	100	100	**ND**	**71**	**63**	33-121	11	23	
Surrogate:											
Tetrachloro-m-xylene						*63*	*62*	*33-108*			
Decachlorobiphenyl						*64*	*62*	*27-120*			

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**SAND-COMP-1**					
Laboratory ID:	08-218-01					
Arsenic	**ND**	10	EPA 6010D	8-22-23	8-22-23	
Barium	**14**	2.6	EPA 6010D	8-22-23	8-22-23	
Cadmium	**ND**	0.52	EPA 6010D	8-22-23	8-22-23	
Chromium	**10**	0.52	EPA 6010D	8-22-23	8-22-23	
Lead	**ND**	5.2	EPA 6010D	8-22-23	8-22-23	
Mercury	**ND**	0.26	EPA 7471B	8-23-23	8-23-23	
Selenium	**ND**	10	EPA 6010D	8-22-23	8-22-23	
Silver	**ND**	1.0	EPA 6010D	8-22-23	8-22-23	
Client ID:	**SAND-COMP-2**					
Laboratory ID:	08-218-02					
Arsenic	**ND**	10	EPA 6010D	8-22-23	8-22-23	
Barium	**14**	2.6	EPA 6010D	8-22-23	8-22-23	
Cadmium	**ND**	0.51	EPA 6010D	8-22-23	8-22-23	
Chromium	**8.4**	0.51	EPA 6010D	8-22-23	8-22-23	
Lead	**ND**	5.1	EPA 6010D	8-22-23	8-22-23	
Mercury	**ND**	0.26	EPA 7471B	8-23-23	8-23-23	
Selenium	**ND**	10	EPA 6010D	8-22-23	8-22-23	
Silver	**ND**	1.0	EPA 6010D	8-22-23	8-22-23	
Client ID:	**TOP-COMP-1**					
Laboratory ID:	08-218-03					
Arsenic	**ND**	11	EPA 6010D	8-22-23	8-22-23	
Barium	**23**	2.7	EPA 6010D	8-22-23	8-22-23	
Cadmium	**ND**	0.54	EPA 6010D	8-22-23	8-22-23	
Chromium	**14**	0.54	EPA 6010D	8-22-23	8-22-23	
Lead	**ND**	5.4	EPA 6010D	8-22-23	8-22-23	
Mercury	**ND**	0.27	EPA 7471B	8-23-23	8-23-23	
Selenium	**ND**	11	EPA 6010D	8-22-23	8-22-23	
Silver	**ND**	1.1	EPA 6010D	8-22-23	8-22-23	

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**TOP-COMP-2**					
Laboratory ID:	08-218-04					
Arsenic	**ND**	11	EPA 6010D	8-22-23	8-22-23	
Barium	**18**	2.7	EPA 6010D	8-22-23	8-22-23	
Cadmium	**ND**	0.54	EPA 6010D	8-22-23	8-22-23	
Chromium	**11**	0.54	EPA 6010D	8-22-23	8-22-23	
Lead	**ND**	5.4	EPA 6010D	8-22-23	8-22-23	
Mercury	**ND**	0.27	EPA 7471B	8-23-23	8-23-23	
Selenium	**ND**	11	EPA 6010D	8-22-23	8-22-23	
Silver	**ND**	1.1	EPA 6010D	8-22-23	8-22-23	

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Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0822SM3					
Arsenic	**ND**	10	EPA 6010D	8-22-23	8-22-23	
Barium	**ND**	2.5	EPA 6010D	8-22-23	8-22-23	
Cadmium	**ND**	0.50	EPA 6010D	8-22-23	8-22-23	
Chromium	**ND**	0.50	EPA 6010D	8-22-23	8-22-23	
Lead	**ND**	5.0	EPA 6010D	8-22-23	8-22-23	
Selenium	**ND**	10	EPA 6010D	8-22-23	8-22-23	
Silver	**ND**	1.0	EPA 6010D	8-22-23	8-22-23	
Laboratory ID:	MB0823S1					
Mercury	**ND**	0.25	EPA 7471B	8-23-23	8-23-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	08-244-02									
	ORIG	DUP								
Arsenic	**14.6**	**13.7**	NA	NA		NA	NA	6	20	
Barium	**49.8**	**47.0**	NA	NA		NA	NA	6	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**11.1**	**9.25**	NA	NA		NA	NA	18	20	
Lead	**59.4**	**55.7**	NA	NA		NA	NA	7	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Laboratory ID:	08-218-01									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	08-244-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**102**	**104**	100	100	14.6	**87**	**89**	75-125	2	20
Barium	**144**	**142**	100	100	49.8	**94**	**93**	75-125	1	20
Cadmium	**45.0**	**44.8**	50.0	50.0	ND	**90**	**90**	75-125	0	20
Chromium	**102**	**101**	100	100	11.1	**91**	**90**	75-125	0	20
Lead	**293**	**289**	250	250	59.4	**93**	**92**	75-125	1	20
Selenium	**85.2**	**85.6**	100	100	ND	**85**	**86**	75-125	1	20
Silver	**21.9**	**21.6**	25.0	25.0	ND	**87**	**86**	75-125	1	20
Laboratory ID:	08-218-01									
Mercury	**0.507**	**0.509**	0.500	0.500	0.0124	**99**	**99**	80-120	0	20

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: August 25, 2023
Samples Submitted: August 18, 2023
Laboratory Reference: 2308-218
Project: Burrows Island

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
SAND-COMP-1	08-218-01	**4**	8-21-23
SAND-COMP-2	08-218-02	**3**	8-21-23
TOP-COMP-1	08-218-03	**8**	8-21-23
TOP-COMP-2	08-218-04	**7**	8-21-23

This report pertains to the samples analyzed in accordance with the chain of custody,
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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Laboratory Number: 08-218

Company: ARCADIS
Project Number:
Project Name: BURROWS ISLAND
Project Manager: PAUL MCCULLOUGH
Sampled by: JULIA VIDONISH

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
~~☑ Standard (7 Days)~~
☑ 5 Day TAT
(other)

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	% Moisture
1	SAND-COMP-1	8/18/23	0823	SO	4	X
2	SAND-COMP-2	8/18/23	0830	SO	4	X
3	TOP-COMP-1	8/18/23	0840	SO	4	X
4	TOP-COMP-2	8/18/23	0855	SO	4	X
5	TB-08182023	8/18/23	-	WA	3	

Analyses requested (✓ = requested, X = sample):

NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐) Extended range (H20)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals 6010, 7471	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664
	X	X	✓	✓	X	X	✓	X	✓	✓	X	X	✓	X	X	X

	Signature	Company	Date	Time
Relinquished	Julia Vidonish	Arcadis	08/18/23	1105
Received	Jin Kang	Alpha	8/18/23	11:05
Relinquished	Jin Kang	Alpha	08/18/23	1:55
Received		OSE	8/18/23	1355
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
1 jar + 3 VOAs/ea.

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Appendix E

Laboratory Analytical Reports - Waste

EMSL Analytical, Inc.

5900 4th Avenue S, Suite 100, 1st Floor Seattle, WA 98108

Tel/Fax: (206) 269-6310 / (206) 900-8789

http://www.emsl.com / seattlelab@emsl.com

EMSL Order:	512302335
Customer ID:	ACAD78L
Customer PO:	30092874.03
Project ID:	

Attention:	Alex Abrahamson	**Phone:**	(206) 218-9863
	ARCADIS U.S., Inc.	**Fax:**	(206) 325-8218
	1100 Olive Way	**Received Date:**	09/25/2023 1:30 PM
	Suite 800	**Analysis Date:**	09/26/2023
	Seattle, WA 98101	**Collected Date:**	09/25/2023
Project:	Burrows Island Lighthouse		

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1A *512302335-0001*	Cement Roof Shingle	Brown/Gray Fibrous Homogeneous		30% Ca Carbonate 45% Non-fibrous (Other)	25% Chrysotile
1B *512302335-0002*	Cement Roof Shingle	Brown/Gray Fibrous Homogeneous		25% Ca Carbonate 45% Non-fibrous (Other)	30% Chrysotile
1C *512302335-0003* *Inseparable paint / coating layer included in analysis*	Cement Roof Shingle	Gray/Pink Fibrous Homogeneous		5% Quartz 70% Non-fibrous (Other)	25% Chrysotile
2A *512302335-0004* *Result includes a small amount of inseparable attached material*	Black Wire Wrap	Brown/Black Fibrous Heterogeneous	11% Cellulose	89% Non-fibrous (Other)	None Detected
2B *512302335-0005*	Black Wire Wrap				Not Submitted
2C *512302335-0006*	Black Wire Wrap	Brown/Black Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
3A *512302335-0007*	Brown Wire Insulation	Brown/Gray Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
3B *512302335-0008*	Brown Wire Insulation	Brown/Gray Fibrous Heterogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
3C *512302335-0009* *Result includes cloth wrap and rope-like insulation*	Brown Wire Insulation	Brown/White/Black Fibrous Heterogeneous	65% Cellulose	35% Non-fibrous (Other)	None Detected

Analyst(s)

Ehrin Stephens (3)

Meah Cross Sevilla (5)

Ehrin Stephens, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 “Interim Method”) but augmented with procedures outlined in the 1993 (”final”) version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Seattle, WA NVLAP Lab Code 200613, CA 2733, WA C1025

Initial report from: 09/26/2023 15:03:19

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 13, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-061A

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 11, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

Case Narrative

Samples were collected on September 9 and 10, 2023 and received by the laboratory on September 11, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

Sodium Bisulfate preservation has been proven to increase the frequency of detection and the concentration of Acetone and 2-Butanone due in part to chemical reactions in the sample. If Acetone is a potential site contaminant, Sodium Bisulfate should not be used.

Total Metals EPA 6010D/7471B Analysis

The duplicate RPD for Lead is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Mercury are outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 98%.

The Matrix Spike/Matrix Spike Duplicate RPD for mercury is outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-001-091023**					
Laboratory ID:	09-061-33					
Dichlorodifluoromethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Chloromethane	ND	0.0049	EPA 8260D	9-12-23	9-12-23	
Vinyl Chloride	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Bromomethane	ND	0.0049	EPA 8260D	9-12-23	9-12-23	
Chloroethane	ND	0.0049	EPA 8260D	9-12-23	9-12-23	
Trichlorofluoromethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloroethene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Acetone	0.095	0.049	EPA 8260D	9-12-23	9-12-23	
Iodomethane	ND	0.0049	EPA 8260D	9-12-23	9-12-23	
Carbon Disulfide	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Methylene Chloride	ND	0.0049	EPA 8260D	9-12-23	9-12-23	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Methyl t-Butyl Ether	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloroethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Vinyl Acetate	ND	0.0049	EPA 8260D	9-12-23	9-12-23	
2,2-Dichloropropane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
2-Butanone	ND	0.0097	EPA 8260D	9-12-23	9-12-23	
Bromochloromethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Chloroform	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Carbon Tetrachloride	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloropropene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Benzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,2-Dichloroethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Trichloroethene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,2-Dichloropropane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Dibromomethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Bromodichloromethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Methyl Isobutyl Ketone	ND	0.0049	EPA 8260D	9-12-23	9-12-23	
Toluene	ND	0.0049	EPA 8260D	9-12-23	9-12-23	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-001-091023**					
Laboratory ID:	09-061-33					
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,1,2-Trichloroethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Tetrachloroethene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,3-Dichloropropane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
2-Hexanone	ND	0.0049	EPA 8260D	9-12-23	9-12-23	
Dibromochloromethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,2-Dibromoethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Chlorobenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Ethylbenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
m,p-Xylene	ND	0.0019	EPA 8260D	9-12-23	9-12-23	
o-Xylene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Styrene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Bromoform	ND	0.0049	EPA 8260D	9-12-23	9-12-23	
Isopropylbenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Bromobenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
n-Propylbenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
2-Chlorotoluene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
4-Chlorotoluene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,3,5-Trimethylbenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
tert-Butylbenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,2,4-Trimethylbenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
sec-Butylbenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
p-Isopropyltoluene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
n-Butylbenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
1,2-Dibromo-3-chloropropane	ND	0.0049	EPA 8260D	9-12-23	9-12-23	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Hexachlorobutadiene	ND	0.0049	EPA 8260D	9-12-23	9-12-23	
Naphthalene	ND	0.0049	EPA 8260D	9-12-23	9-12-23	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260D	9-12-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*75-130*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*97*	*71-130*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0912S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Chloromethane	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Bromomethane	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Chloroethane	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Acetone	ND	0.050	EPA 8260D	9-12-23	9-12-23	
Iodomethane	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Carbon Disulfide	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Methylene Chloride	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Vinyl Acetate	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
2-Butanone	ND	0.010	EPA 8260D	9-12-23	9-12-23	
Bromochloromethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Chloroform	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Benzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Trichloroethene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Dibromomethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Toluene	ND	0.0050	EPA 8260D	9-12-23	9-12-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0912S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
2-Hexanone	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Chlorobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Ethylbenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
m,p-Xylene	ND	0.0020	EPA 8260D	9-12-23	9-12-23	
o-Xylene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Styrene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Bromoform	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Isopropylbenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Bromobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
n-Propylbenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
tert-Butylbenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
sec-Butylbenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
n-Butylbenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
Naphthalene	ND	0.0050	EPA 8260D	9-12-23	9-12-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-12-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*75-130*				
Toluene-d8	*99*	*78-128*				
4-Bromofluorobenzene	*99*	*71-130*				

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VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0912S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0426**	**0.0385**	0.0500	0.0500	85	77	30-160	10	26	
Chloromethane	**0.0460**	**0.0428**	0.0500	0.0500	92	86	59-131	7	26	
Vinyl Chloride	**0.0492**	**0.0468**	0.0500	0.0500	98	94	68-136	5	23	
Bromomethane	**0.0486**	**0.0456**	0.0500	0.0500	97	91	48-155	6	32	
Chloroethane	**0.0511**	**0.0482**	0.0500	0.0500	102	96	67-141	6	16	
Trichlorofluoromethane	**0.0507**	**0.0481**	0.0500	0.0500	101	96	76-127	5	19	
1,1-Dichloroethene	**0.0545**	**0.0501**	0.0500	0.0500	109	100	75-129	8	19	
Acetone	**0.0492**	**0.0495**	0.0500	0.0500	98	99	49-158	1	37	
Iodomethane	**0.0411**	**0.0417**	0.0500	0.0500	82	83	37-140	1	27	
Carbon Disulfide	**0.0406**	**0.0416**	0.0500	0.0500	81	83	41-143	2	19	
Methylene Chloride	**0.0462**	**0.0446**	0.0500	0.0500	92	89	60-124	4	18	
(trans) 1,2-Dichloroethene	**0.0513**	**0.0496**	0.0500	0.0500	103	99	79-133	3	15	
Methyl t-Butyl Ether	**0.0504**	**0.0488**	0.0500	0.0500	101	98	73-125	3	17	
1,1-Dichloroethane	**0.0515**	**0.0497**	0.0500	0.0500	103	99	79-125	4	17	
Vinyl Acetate	**0.0501**	**0.0510**	0.0500	0.0500	100	102	51-145	2	41	
2,2-Dichloropropane	**0.0531**	**0.0529**	0.0500	0.0500	106	106	79-126	0	18	
(cis) 1,2-Dichloroethene	**0.0538**	**0.0518**	0.0500	0.0500	108	104	75-131	4	15	
2-Butanone	**0.0470**	**0.0457**	0.0500	0.0500	94	91	54-145	3	32	
Bromochloromethane	**0.0499**	**0.0491**	0.0500	0.0500	100	98	80-126	2	15	
Chloroform	**0.0530**	**0.0513**	0.0500	0.0500	106	103	80-123	3	15	
1,1,1-Trichloroethane	**0.0523**	**0.0506**	0.0500	0.0500	105	101	78-124	3	21	
Carbon Tetrachloride	**0.0520**	**0.0484**	0.0500	0.0500	104	97	74-127	7	18	
1,1-Dichloropropene	**0.0520**	**0.0483**	0.0500	0.0500	104	97	80-123	7	15	
Benzene	**0.0517**	**0.0501**	0.0500	0.0500	103	100	80-122	3	18	
1,2-Dichloroethane	**0.0518**	**0.0510**	0.0500	0.0500	104	102	75-124	2	15	
Trichloroethene	**0.0570**	**0.0529**	0.0500	0.0500	114	106	80-129	7	18	
1,2-Dichloropropane	**0.0538**	**0.0538**	0.0500	0.0500	108	108	80-123	0	15	
Dibromomethane	**0.0532**	**0.0529**	0.0500	0.0500	106	106	80-123	1	15	
Bromodichloromethane	**0.0561**	**0.0546**	0.0500	0.0500	112	109	80-129	3	15	
(cis) 1,3-Dichloropropene	**0.0577**	**0.0564**	0.0500	0.0500	115	113	80-130	2	15	
Methyl Isobutyl Ketone	**0.0546**	**0.0558**	0.0500	0.0500	109	112	63-137	2	27	
Toluene	**0.0532**	**0.0511**	0.0500	0.0500	106	102	80-120	4	18	
(trans) 1,3-Dichloropropene	**0.0573**	**0.0564**	0.0500	0.0500	115	113	80-124	2	15	

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Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0912S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0528**	**0.0520**	0.0500	0.0500	106	104	80-120	2	15	
Tetrachloroethene	**0.0587**	**0.0556**	0.0500	0.0500	117	111	77-126	5	15	
1,3-Dichloropropane	**0.0535**	**0.0522**	0.0500	0.0500	107	104	77-123	2	15	
2-Hexanone	**0.0550**	**0.0534**	0.0500	0.0500	110	107	53-137	3	29	
Dibromochloromethane	**0.0577**	**0.0567**	0.0500	0.0500	115	113	80-128	2	16	
1,2-Dibromoethane	**0.0534**	**0.0531**	0.0500	0.0500	107	106	80-122	1	20	
Chlorobenzene	**0.0569**	**0.0548**	0.0500	0.0500	114	110	80-120	4	18	
1,1,1,2-Tetrachloroethane	**0.0582**	**0.0554**	0.0500	0.0500	116	111	80-120	5	15	
Ethylbenzene	**0.0555**	**0.0531**	0.0500	0.0500	111	106	80-120	4	15	
m,p-Xylene	**0.116**	**0.111**	0.100	0.100	116	111	80-120	4	15	
o-Xylene	**0.0562**	**0.0546**	0.0500	0.0500	112	109	80-120	3	15	
Styrene	**0.0582**	**0.0556**	0.0500	0.0500	116	111	80-122	5	15	
Bromoform	**0.0561**	**0.0554**	0.0500	0.0500	112	111	78-126	1	15	
Isopropylbenzene	**0.0585**	**0.0563**	0.0500	0.0500	117	113	80-125	4	15	
Bromobenzene	**0.0559**	**0.0535**	0.0500	0.0500	112	107	79-124	4	15	
1,1,2,2-Tetrachloroethane	**0.0528**	**0.0529**	0.0500	0.0500	106	106	75-122	0	17	
1,2,3-Trichloropropane	**0.0504**	**0.0508**	0.0500	0.0500	101	102	72-125	1	20	
n-Propylbenzene	**0.0583**	**0.0553**	0.0500	0.0500	117	111	77-126	5	16	
2-Chlorotoluene	**0.0589**	**0.0570**	0.0500	0.0500	118	114	75-128	3	15	
4-Chlorotoluene	**0.0582**	**0.0558**	0.0500	0.0500	116	112	78-127	4	16	
1,3,5-Trimethylbenzene	**0.0579**	**0.0550**	0.0500	0.0500	116	110	77-128	5	15	
tert-Butylbenzene	**0.0575**	**0.0548**	0.0500	0.0500	115	110	73-130	5	20	
1,2,4-Trimethylbenzene	**0.0571**	**0.0545**	0.0500	0.0500	114	109	77-125	5	16	
sec-Butylbenzene	**0.0591**	**0.0558**	0.0500	0.0500	118	112	75-130	6	17	
1,3-Dichlorobenzene	**0.0581**	**0.0559**	0.0500	0.0500	116	112	78-123	4	17	
p-Isopropyltoluene	**0.0588**	**0.0557**	0.0500	0.0500	118	111	75-130	5	18	
1,4-Dichlorobenzene	**0.0592**	**0.0563**	0.0500	0.0500	118	113	77-121	5	17	
1,2-Dichlorobenzene	**0.0562**	**0.0542**	0.0500	0.0500	112	108	80-120	4	15	
n-Butylbenzene	**0.0598**	**0.0569**	0.0500	0.0500	120	114	76-131	5	20	
1,2-Dibromo-3-chloropropane	**0.0521**	**0.0520**	0.0500	0.0500	104	104	61-137	0	28	
1,2,4-Trichlorobenzene	**0.0606**	**0.0576**	0.0500	0.0500	121	115	77-127	5	17	
Hexachlorobutadiene	**0.0596**	**0.0562**	0.0500	0.0500	119	112	77-125	6	22	
Naphthalene	**0.0534**	**0.0532**	0.0500	0.0500	107	106	68-129	0	19	
1,2,3-Trichlorobenzene	**0.0598**	**0.0572**	0.0500	0.0500	120	114	77-124	4	19	
Surrogate:										
Dibromofluoromethane					*95*	*92*	*75-130*			
Toluene-d8					*98*	*99*	*78-128*			
4-Bromofluorobenzene					*99*	*99*	*71-130*			

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Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-001-091023**					
Laboratory ID:	09-061-33					
n-Nitrosodimethylamine	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Pyridine	**ND**	0.33	EPA 8270E	9-12-23	9-12-23	
Phenol	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Aniline	**ND**	0.17	EPA 8270E	9-12-23	9-12-23	
bis(2-Chloroethyl)ether	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2-Chlorophenol	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
1,3-Dichlorobenzene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
1,4-Dichlorobenzene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Benzyl alcohol	**ND**	0.067	EPA 8270E	9-12-23	9-12-23	
1,2-Dichlorobenzene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2-Methylphenol (o-Cresol)	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
bis(2-Chloroisopropyl)ether	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
n-Nitroso-di-n-propylamine	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Hexachloroethane	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Nitrobenzene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Isophorone	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2-Nitrophenol	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2,4-Dimethylphenol	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
bis(2-Chloroethoxy)methane	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2,4-Dichlorophenol	**ND**	0.067	EPA 8270E	9-12-23	9-12-23	
1,2,4-Trichlorobenzene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Naphthalene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
4-Chloroaniline	**ND**	0.17	EPA 8270E	9-12-23	9-12-23	
Hexachlorobutadiene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
4-Chloro-3-methylphenol	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
Hexachlorocyclopentadiene	**ND**	0.48	EPA 8270E	9-12-23	9-12-23	
2,4,6-Trichlorophenol	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2,3-Dichloroaniline	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2,4,5-Trichlorophenol	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2-Chloronaphthalene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2-Nitroaniline	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
1,4-Dinitrobenzene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Dimethylphthalate	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
1,3-Dinitrobenzene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2,6-Dinitrotoluene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
1,2-Dinitrobenzene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Acenaphthylene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
3-Nitroaniline	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	

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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-001-091023**					
Laboratory ID:	09-061-33					
2,4-Dinitrophenol	**ND**	0.46	EPA 8270E	9-12-23	9-12-23	
Acenaphthene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
4-Nitrophenol	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2,4-Dinitrotoluene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Dibenzofuran	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Diethylphthalate	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
4-Chlorophenyl-phenylether	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
4-Nitroaniline	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Fluorene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
4,6-Dinitro-2-methylphenol	**ND**	0.48	EPA 8270E	9-12-23	9-12-23	
n-Nitrosodiphenylamine	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
1,2-Diphenylhydrazine	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
4-Bromophenyl-phenylether	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Hexachlorobenzene	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Pentachlorophenol	**ND**	0.067	EPA 8270E	9-12-23	9-12-23	
Phenanthrene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
Anthracene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
Carbazole	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Di-n-butylphthalate	**ND**	0.17	EPA 8270E	9-12-23	9-12-23	
Fluoranthene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
Pyrene	**0.0078**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
Butylbenzylphthalate	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270E	9-12-23	9-12-23	
3,3'-Dichlorobenzidine	**ND**	0.22	EPA 8270E	9-12-23	9-12-23	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270E	9-12-23	9-12-23	
Di-n-octylphthalate	**ND**	0.033	EPA 8270E	9-12-23	9-12-23	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270E/SIM	9-12-23	9-12-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*58*	*11 - 111*				
Phenol-d6	*57*	*26 - 117*				
Nitrobenzene-d5	*63*	*31 - 111*				
2-Fluorobiphenyl	*75*	*38 - 109*				
2,4,6-Tribromophenol	*90*	*27 - 127*				
Terphenyl-d14	*84*	*37 - 116*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0912S1					
n-Nitrosodimethylamine	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Pyridine	**ND**	0.20	EPA 8270E	9-12-23	9-12-23	
Phenol	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Aniline	**ND**	0.10	EPA 8270E	9-12-23	9-12-23	
bis(2-Chloroethyl)ether	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2-Chlorophenol	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
1,3-Dichlorobenzene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
1,4-Dichlorobenzene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Benzyl alcohol	**ND**	0.040	EPA 8270E	9-12-23	9-12-23	
1,2-Dichlorobenzene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2-Methylphenol (o-Cresol)	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
bis(2-Chloroisopropyl)ether	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
n-Nitroso-di-n-propylamine	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Hexachloroethane	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Nitrobenzene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Isophorone	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2-Nitrophenol	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2,4-Dimethylphenol	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
bis(2-Chloroethoxy)methane	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2,4-Dichlorophenol	**ND**	0.040	EPA 8270E	9-12-23	9-12-23	
1,2,4-Trichlorobenzene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Naphthalene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
4-Chloroaniline	**ND**	0.10	EPA 8270E	9-12-23	9-12-23	
Hexachlorobutadiene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
4-Chloro-3-methylphenol	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2-Methylnaphthalene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
1-Methylnaphthalene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
Hexachlorocyclopentadiene	**ND**	0.29	EPA 8270E	9-12-23	9-12-23	
2,4,6-Trichlorophenol	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2,3-Dichloroaniline	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2,4,5-Trichlorophenol	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2-Chloronaphthalene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2-Nitroaniline	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
1,4-Dinitrobenzene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Dimethylphthalate	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
1,3-Dinitrobenzene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2,6-Dinitrotoluene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
1,2-Dinitrobenzene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Acenaphthylene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
3-Nitroaniline	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0912S1					
2,4-Dinitrophenol	**ND**	0.27	EPA 8270E	9-12-23	9-12-23	
Acenaphthene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
4-Nitrophenol	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2,4-Dinitrotoluene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Dibenzofuran	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Diethylphthalate	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
4-Chlorophenyl-phenylether	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
4-Nitroaniline	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Fluorene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
4,6-Dinitro-2-methylphenol	**ND**	0.29	EPA 8270E	9-12-23	9-12-23	
n-Nitrosodiphenylamine	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
1,2-Diphenylhydrazine	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
4-Bromophenyl-phenylether	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Hexachlorobenzene	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Pentachlorophenol	**ND**	0.040	EPA 8270E	9-12-23	9-12-23	
Phenanthrene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
Anthracene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
Carbazole	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Di-n-butylphthalate	**ND**	0.10	EPA 8270E	9-12-23	9-12-23	
Fluoranthene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
Pyrene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
Butylbenzylphthalate	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
bis-2-Ethylhexyladipate	**ND**	0.10	EPA 8270E	9-12-23	9-12-23	
3,3'-Dichlorobenzidine	**ND**	0.13	EPA 8270E	9-12-23	9-12-23	
Benzo[a]anthracene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
Chrysene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.10	EPA 8270E	9-12-23	9-12-23	
Di-n-octylphthalate	**ND**	0.020	EPA 8270E	9-12-23	9-12-23	
Benzo[b]fluoranthene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
Benzo(j,k)fluoranthene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
Benzo[a]pyrene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
Dibenz[a,h]anthracene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
Benzo[g,h,i]perylene	**ND**	0.0040	EPA 8270E/SIM	9-12-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*77*	*11 - 111*				
Phenol-d6	*69*	*26 - 117*				
Nitrobenzene-d5	*72*	*31 - 111*				
2-Fluorobiphenyl	*76*	*38 - 109*				
2,4,6-Tribromophenol	*81*	*27 - 127*				
Terphenyl-d14	*71*	*37 - 116*				

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0912S1									
	SB	SBD	SB	SBD	SB	SBD				
n-Nitrosodimethylamine	**0.504**	**0.523**	0.667	0.667	76	78	20 - 120	4	30	
Pyridine	**0.312**	**0.311**	0.667	0.667	47	47	20 - 120	0	30	
Phenol	**0.570**	**0.567**	0.667	0.667	85	85	49 - 109	1	23	
Aniline	**0.513**	**0.497**	0.667	0.667	77	75	20 - 120	3	30	
bis(2-Chloroethyl)ether	**0.494**	**0.445**	0.667	0.667	74	67	20 - 120	10	30	
2-Chlorophenol	**0.551**	**0.518**	0.667	0.667	83	78	52 - 105	6	26	
1,3-Dichlorobenzene	**0.506**	**0.482**	0.667	0.667	76	72	20 - 120	5	30	
1,4-Dichlorobenzene	**0.509**	**0.493**	0.667	0.667	76	74	51 - 102	3	28	
Benzyl alcohol	**0.504**	**0.549**	0.667	0.667	76	82	20 - 120	9	30	
1,2-Dichlorobenzene	**0.513**	**0.507**	0.667	0.667	77	76	20 - 120	1	30	
2-Methylphenol (o-Cresol)	**0.525**	**0.534**	0.667	0.667	79	80	20 - 120	2	30	
bis(2-Chloroisopropyl)ether	**0.505**	**0.498**	0.667	0.667	76	75	20 - 120	1	30	
(3+4)-Methylphenol (m,p-Cresol)	**0.574**	**0.573**	0.667	0.667	86	86	20 - 120	0	30	
n-Nitroso-di-n-propylamine	**0.572**	**0.539**	0.667	0.667	86	81	46 - 111	6	25	
Hexachloroethane	**0.422**	**0.424**	0.667	0.667	63	64	20 - 120	0	30	
Nitrobenzene	**0.553**	**0.540**	0.667	0.667	83	81	20 - 120	2	30	
Isophorone	**0.560**	**0.520**	0.667	0.667	84	78	20 - 120	7	30	
2-Nitrophenol	**0.553**	**0.562**	0.667	0.667	83	84	20 - 120	2	30	
2,4-Dimethylphenol	**0.687**	**0.747**	0.667	0.667	103	112	20 - 120	8	30	
bis(2-Chloroethoxy)methane	**0.537**	**0.535**	0.667	0.667	81	80	20 - 120	0	30	
2,4-Dichlorophenol	**0.544**	**0.587**	0.667	0.667	82	88	20 - 120	8	30	
1,2,4-Trichlorobenzene	**0.567**	**0.559**	0.667	0.667	85	84	52 - 106	1	28	
Naphthalene	**0.543**	**0.548**	0.667	0.667	81	82	20 - 120	1	30	
4-Chloroaniline	**0.512**	**0.534**	0.667	0.667	77	80	20 - 120	4	30	
Hexachlorobutadiene	**0.553**	**0.568**	0.667	0.667	83	85	20 - 120	3	30	
4-Chloro-3-methylphenol	**0.555**	**0.593**	0.667	0.667	83	89	54 - 112	7	20	
2-Methylnaphthalene	**0.591**	**0.602**	0.667	0.667	89	90	20 - 120	2	30	
1-Methylnaphthalene	**0.555**	**0.571**	0.667	0.667	83	86	20 - 120	3	30	
Hexachlorocyclopentadiene	**0.174**	**0.178**	0.667	0.667	26	27	20 - 120	2	30	
2,4,6-Trichlorophenol	**0.608**	**0.610**	0.667	0.667	91	91	20 - 120	0	30	
2,3-Dichloroaniline	**0.522**	**0.521**	0.667	0.667	78	78	20 - 120	0	30	
2,4,5-Trichlorophenol	**0.659**	**0.655**	0.667	0.667	99	98	20 - 120	1	30	
2-Chloronaphthalene	**0.594**	**0.572**	0.667	0.667	89	86	20 - 120	4	30	
2-Nitroaniline	**0.594**	**0.585**	0.667	0.667	89	88	20 - 120	2	30	
1,4-Dinitrobenzene	**0.618**	**0.626**	0.667	0.667	93	94	20 - 120	1	30	
Dimethylphthalate	**0.622**	**0.636**	0.667	0.667	93	95	20 - 120	2	30	
1,3-Dinitrobenzene	**0.629**	**0.617**	0.667	0.667	94	93	20 - 120	2	30	
2,6-Dinitrotoluene	**0.592**	**0.624**	0.667	0.667	89	94	20 - 120	5	30	
1,2-Dinitrobenzene	**0.541**	**0.512**	0.667	0.667	81	77	20 - 120	6	30	
Acenaphthylene	**0.566**	**0.579**	0.667	0.667	85	87	20 - 120	2	30	
3-Nitroaniline	**0.584**	**0.559**	0.667	0.667	88	84	20 - 120	4	30	

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0912S1									
	SB	SBD	SB	SBD	SB	SBD				
2,4-Dinitrophenol	**0.198**	**0.179**	0.667	0.667	30	27	20 - 120	10	30	
Acenaphthene	**0.602**	**0.618**	0.667	0.667	90	93	55 - 101	3	20	
4-Nitrophenol	**0.617**	**0.633**	0.667	0.667	93	95	34 - 136	3	22	
2,4-Dinitrotoluene	**0.502**	**0.536**	0.667	0.667	75	80	51 - 111	7	21	
Dibenzofuran	**0.584**	**0.616**	0.667	0.667	88	92	20 - 120	5	30	
2,3,5,6-Tetrachlorophenol	**0.577**	**0.596**	0.667	0.667	87	89	20 - 120	3	30	
2,3,4,6-Tetrachlorophenol	**0.546**	**0.610**	0.667	0.667	82	91	20 - 120	11	30	
Diethylphthalate	**0.606**	**0.610**	0.667	0.667	91	91	20 - 120	1	30	
4-Chlorophenyl-phenylether	**0.635**	**0.632**	0.667	0.667	95	95	20 - 120	0	30	
4-Nitroaniline	**0.581**	**0.506**	0.667	0.667	87	76	20 - 120	14	30	
Fluorene	**0.620**	**0.624**	0.667	0.667	93	94	20 - 120	1	30	
4,6-Dinitro-2-methylphenol	**0.219**	**0.205**	0.667	0.667	33	31	20 - 120	7	30	
n-Nitrosodiphenylamine	**0.587**	**0.553**	0.667	0.667	88	83	20 - 120	6	30	
1,2-Diphenylhydrazine	**0.601**	**0.571**	0.667	0.667	90	86	20 - 120	5	30	
4-Bromophenyl-phenylether	**0.648**	**0.625**	0.667	0.667	97	94	20 - 120	4	30	
Hexachlorobenzene	**0.649**	**0.631**	0.667	0.667	97	95	20 - 120	3	30	
Pentachlorophenol	**0.660**	**0.613**	0.667	0.667	99	92	34 - 134	7	23	
Phenanthrene	**0.583**	**0.603**	0.667	0.667	87	90	20 - 120	3	30	
Anthracene	**0.641**	**0.638**	0.667	0.667	96	96	20 - 120	0	30	
Carbazole	**0.592**	**0.563**	0.667	0.667	89	84	20 - 120	5	30	
Di-n-butylphthalate	**0.633**	**0.597**	0.667	0.667	95	90	20 - 120	6	30	
Fluoranthene	**0.648**	**0.638**	0.667	0.667	97	96	20 - 120	2	30	
Pyrene	**0.639**	**0.651**	0.667	0.667	96	98	53 - 113	2	20	
Butylbenzylphthalate	**0.562**	**0.636**	0.667	0.667	84	95	20 - 120	12	30	
bis-2-Ethylhexyladipate	**0.583**	**0.599**	0.667	0.667	87	90	20 - 120	3	30	
3,3'-Dichlorobenzidine	**0.519**	**0.529**	0.667	0.667	78	79	20 - 120	2	30	
Benzo[a]anthracene	**0.631**	**0.657**	0.667	0.667	95	99	20 - 120	4	30	
Chrysene	**0.627**	**0.696**	0.667	0.667	94	104	20 - 120	10	30	
bis(2-Ethylhexyl)phthalate	**0.546**	**0.551**	0.667	0.667	82	83	20 - 120	1	30	
Di-n-octylphthalate	**0.613**	**0.645**	0.667	0.667	92	97	20 - 120	5	30	
Benzo[b]fluoranthene	**0.622**	**0.639**	0.667	0.667	93	96	20 - 120	3	30	
Benzo(j,k)fluoranthene	**0.680**	**0.692**	0.667	0.667	102	104	20 - 120	2	30	
Benzo[a]pyrene	**0.682**	**0.672**	0.667	0.667	102	101	20 - 120	1	30	
Indeno[1,2,3-cd]pyrene	**0.659**	**0.764**	0.667	0.667	99	115	20 - 120	15	30	
Dibenz[a,h]anthracene	**0.641**	**0.652**	0.667	0.667	96	98	20 - 120	2	30	
Benzo[g,h,i]perylene	**0.637**	**0.647**	0.667	0.667	96	97	20 - 120	2	30	
Surrogate:										
2-Fluorophenol					*81*	*78*	*11 - 111*			
Phenol-d6					*86*	*77*	*26 - 117*			
Nitrobenzene-d5					*83*	*83*	*31 - 111*			
2-Fluorobiphenyl					*95*	*97*	*38 - 109*			
2,4,6-Tribromophenol					*110*	*102*	*27 - 127*			
Terphenyl-d14					*94*	*98*	*37 - 116*			

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-001-091023**					
Laboratory ID:	09-061-33					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1260	**0.11**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*69*	*50-127*				

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0911S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-11-23	9-11-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*90*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0911S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.404**	**0.428**	0.500	0.500	N/A	**81**	**86**	55-119	6	34	
Surrogate:											
DCB						*81*	*84*	*50-127*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-001-091023**					
Laboratory ID:	09-061-33					
Arsenic	**24**	10	EPA 6010D	9-11-23	9-12-23	
Barium	**52**	2.5	EPA 6010D	9-11-23	9-12-23	
Cadmium	**ND**	0.50	EPA 6010D	9-11-23	9-12-23	
Chromium	**35**	0.50	EPA 6010D	9-11-23	9-12-23	
Copper	**12**	1.0	EPA 6010D	9-11-23	9-12-23	
Lead	**56**	5.0	EPA 6010D	9-11-23	9-12-23	
Mercury	**ND**	0.25	EPA 7471B	9-11-23	9-11-23	
Nickel	**150**	2.5	EPA 6010D	9-11-23	9-12-23	
Selenium	**ND**	10	EPA 6010D	9-11-23	9-12-23	
Silver	**ND**	1.0	EPA 6010D	9-11-23	9-12-23	
Zinc	**68**	2.5	EPA 6010D	9-11-23	9-12-23	

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0911SM3					
Arsenic	**ND**	10	EPA 6010D	9-11-23	9-12-23	
Barium	**ND**	2.5	EPA 6010D	9-11-23	9-12-23	
Cadmium	**ND**	0.50	EPA 6010D	9-11-23	9-12-23	
Chromium	**ND**	0.50	EPA 6010D	9-11-23	9-12-23	
Copper	**ND**	1.0	EPA 6010D	9-11-23	9-12-23	
Lead	**ND**	5.0	EPA 6010D	9-11-23	9-12-23	
Nickel	**ND**	2.5	EPA 6010D	9-11-23	9-12-23	
Selenium	**ND**	10	EPA 6010D	9-11-23	9-12-23	
Silver	**ND**	1.0	EPA 6010D	9-11-23	9-12-23	
Zinc	**ND**	2.5	EPA 6010D	9-11-23	9-12-23	
Laboratory ID:	MB0911S1					
Mercury	**ND**	0.25	EPA 7471B	9-11-23	9-11-23	

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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	09-061-42									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**73.0**	**66.0**	NA	NA		NA	NA	10	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**50.7**	**60.5**	NA	NA		NA	NA	18	20	
Copper	**7.35**	**6.45**	NA	NA		NA	NA	13	20	
Lead	**40.5**	**29.2**	NA	NA		NA	NA	32	20	K
Nickel	**216**	**201**	NA	NA		NA	NA	7	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Zinc	**50.5**	**47.9**	NA	NA		NA	NA	5	20	
Laboratory ID:	08-355-01									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	09-061-42									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**88.0**	**86.7**	100	100	ND	**88**	**87**	75-125	2	20
Barium	**166**	**163**	100	100	73.0	**93**	**90**	75-125	2	20
Cadmium	**44.3**	**43.1**	50.0	50.0	ND	**89**	**86**	75-125	3	20
Chromium	**142**	**140**	100	100	50.7	**91**	**90**	75-125	1	20
Copper	**51.6**	**49.9**	50.0	50.0	7.35	**88**	**85**	75-125	3	20
Lead	**255**	**253**	250	250	40.5	**86**	**85**	75-125	1	20
Nickel	**339**	**300**	100	100	216	**123**	**83**	75-125	12	20
Selenium	**84.2**	**81.8**	100	100	ND	**84**	**82**	75-125	3	20
Silver	**22.2**	**22.0**	25.0	25.0	ND	**89**	**88**	75-125	1	20
Zinc	**143**	**138**	100	100	50.5	**92**	**87**	75-125	3	20
Laboratory ID:	08-355-01									
Mercury	**0.873**	**0.696**	0.500	0.500	0.229	**129**	**93**	80-120	23	20	V,W

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

TCLP LEAD
EPA 1311/6010D

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-001-091023**					
Laboratory ID:	09-061-33					
Lead	**ND**	0.20	EPA 6010D	9-12-23	9-12-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

TCLP LEAD
EPA 1311/6010D
QUALITY CONTROL

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0912TM1					
Lead	**ND**	0.20	EPA 6010D	9-12-23	9-12-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	06-299-06										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	06-299-06										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**9.54**	**9.58**	10.0	10.0	ND	**95**	**96**	75-125	0	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 13, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061A
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
WC-001-091023	09-061-33	**0**	9-11-23

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 2 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead by USEPA method 6010				% Moisture
1	SS-E-001-090923	9/9/23	1115	S	1																		X				
2	SS-E-002-090923		1125	S	1																		X				
3	SS-E-003-090923		1135	S	1																		X				
4	SS-E-004-090923		1145	S	1																		X				
5	SS-E-005-090923		1155	S	1																		X				
6	SS-E-006-090923		1205	S	1																		X				
7	SS-E-007-090923		1215	S	1																		X				
8	SS-E-008-090923		1225	S	1																		X				
9	SS-E-009-090923		1235	S	1																		X				
10	SS-E-010-090923		1245	S	1																		X				

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received	[signature]	OSE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Report Sample #33 on a separate report.

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.0003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nzunini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 2 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead - USEPA 6010		MS/MSD		% Moisture
11	SS-E-011-090923	9/9/23	1255	S	1																	X				0
12	SS-E-012-090923		1305	S	1																	X				
13	EB-E-001-090923		1320	S	1																	X				
14	EB-E-002-090923		1330	S	1																	X				
15	EB-E-003-090923		1340	S	1																	X				
16	EB-E-004-090923		1350	S	1																	X				
17	EB-E-005-090923		1400	S	1																	X				
18	EB-E-006-090923		1410	S	1 2 PB																	X		X		
19	EB-E-007-090923		1420	S	1																	X				
20	EB-E-008-090923		1430	S	1																	X				

	Signature	Company	Date	Time
Relinquished	[signature]	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received	[signature]	OSE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
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Company: Arcadis
Project Number: 30092874.0003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 2 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead using 6010		MS/MSD		% Moisture
21	EB-E-009-090923	9/9/23	1440	S	1																	X				10
22	~~EB-E-006-090923 MS/MSD~~		1410	S	1																	X				NO
23	DUP-001-090923		—	S	1																	X				
24	DUP-002-090923		—	S	1																	X				
25	EB-N-001-090923		1450	S	1																	X				
26	SS-N-001-090923		1452	S	1																	X				
27	SS-N-002-090923		1454	S	1																	X				
28	SS-N-003-090923		1456	S	1																	X				
29	SS-N-004-090923		1458	S	1																	X				
30	DUP-003-090923		—	S	1																	X				

	Signature	Company	Date	Time
Relinquished	[signature]	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received	[signature]	ONE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) RUSH
☐ Same Day ☒ 2 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
31	RS-001-090923	9/9/23	2030	W	4
32	RS-002-091023	9/10/23	1420	W	4
33/34	WC-001-091023	"	1210	S	5
34/35	~~SS-001~~ TN SS-M-001-091023	"	0850	S	1
35/36	SS-M-002-091023	"	0855	S	1
36/37	SS-M-003-091023	"	0900	S	1
37/38	SS-M-004-091023	"	0905	S	1
38	SS-M-005-091023	"	0910	S	1
39	SS-M-006-091023	"	0915	S	1
40	EB-M-001-091023	"	0920	S	1

Analysis	31	32	33/34	34/35	35/36	36/37	37/38	38	39	40
NWTPH-HCID										
NWTPH-Gx/BTEX (8021☐ 8260☐)										
NWTPH-Gx										
NWTPH-Dx (SG Clean-up☐)										
Volatiles 8260			X							
Halogenated Volatiles 8260										
EDB EPA 8011 (Waters Only)										
Semivolatiles 8270/SIM (with low-level PAHs)			X							
PAHs 8270/SIM (low-level)										
PCBs 8082			X							
Organochlorine Pesticides 8081										
Organophosphorus Pesticides 8270/SIM										
Chlorinated Acid Herbicides 8151										
Total ~~RCRA~~ Metals (6010/7471 see comments)			X							
Total ~~MTCA~~ Metals										
TCLP Metals 6010/7471 ~~for total metals analyses~~			X							
HEM (oil and grease) 1664										
Lead USEPA 6010	X	X		X	X	X	X	X	X	X
DRO & HCID NWTPH-Dx	X	X		X	X	X	X	X	X	X
PCBs	X	X								
GRO by NWTPH-Gx		ND	X							
% Moisture			D							

MS/MSD

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received		OSE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Total metals 6010/7471 For: arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver, Copper, Nickle, Zinc
SAMPLE #33 on a separate report

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead USEPA 6010	DRO and HO by NWTPH-DX		MS/MSD	% Moisture
41	EB-M-002-091023	9/10/23	0925	S	1																		X	X			10
42	EB-M-003-091023	9/10/23	0930	S	~~1~~ 2 DS																		X	X		X	
~~43~~	~~EB-M-003-091023 MS/MSD~~	~~9/10/23~~	~~0930~~	~~S~~	~~1~~																		X	X			
43	Dup-004-091023	9/10/23	-	S	1																		X	X			
~~44~~ DB																											

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received		OSE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 18, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-061B

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 11, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061B
Project: 30092874.00003

Case Narrative

Samples were collected on September 9 and 10, 2023 and received by the laboratory on September 11, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061B
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-001-091023**					
Laboratory ID:	09-061-33					
Diesel Range Organics	**27**	25	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**63**	50	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*92*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061B
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*93*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-110-01										
	ORIG	DUP									
Diesel Range Organics	**63.4**	**59.1**	NA	NA		NA		NA	7	40	
Lube Oil	**94.6**	**77.9**	NA	NA		NA		NA	19	40	
Surrogate:											
o-Terphenyl						*108*	*89*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 18, 2023
Samples Submitted: September 11, 2023
Laboratory Reference: 2309-061B
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
WC-001-091023	09-061-33	**0**	9-11-23

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)

(Check One) Rush

- ☐ Same Day
- ☒ 2 Day
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead by USEPA method 6010				% Moisture
1	SS-E-001-090923	9/9/23	1115	S	1																		X				0
2	SS-E-002-090923		1125	S	1																		X				
3	SS-E-003-090923		1135	S	1																		X				
4	SS-E-004-090923		1145	S	1																		X				
5	SS-E-005-090923		1155	S	1																		X				
6	SS-E-006-090923		1205	S	1																		X				
7	SS-E-007-090923		1215	S	1																		X				
8	SS-E-008-090923		1225	S	1																		X				
9	SS-E-009-090923		1235	S	1																		X				
10	SS-E-010-090923		1245	S	1																		X				

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received		COC	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Report Sample #33 on a separate report.
⊗-Added 9/15/23 NB (1 Day)

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.0003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nemmers

Turnaround Request (in working days)

(Check One) Rush

- ☐ Same Day
- ☒ 1 Day
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead - USEPA 6010		MS/MSD		% Moisture
11	SS-E-011-090923	9/9/23	1255	S	1																		X				
12	SS-E-012-090923		1305	S	1																		X				
13	EB-E-001-090923		1320	S	1																		X				
14	EB-E-002-090923		1330	S	1																		X				
15	EB-E-003-090923		1340	S	1																		X				
16	EB-E-004-090923		1350	S	1																		X				
17	EB-E-005-090923		1400	S	1																		X				
18	EB-E-006-090923		1410	S	1 T2 PB																		X		X		
19	EB-E-007-090923		1420	S	1																		X				
20	EB-E-008-090923		1430	S	1																		X				

	Signature	Company	Date	Time
Relinquished	[signature]	Arcadis	9/11/23	0660
Received	Courier Service			
Relinquished				
Received	[signature]	OSE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.0003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)

(Check One) Rush

- ☐ Same Day
- ☒ 2 Day
- ☐ 2 Days
- ☐ 3 Days
- ☐ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead 6010	MS/MSD	% Moisture
21	EB-E-009-090923	9/9/23	1440	S	1																	X			
22	EB-E-006-090923 MS/MSD		1410	S	1																	X			NO
23	DUP-001-090923		-	S	1																	X			
24	DUP-002-090923		-	S	1																	X			
25	EB-N-001-090923		1450	S	1																	X			
26	SS-N-001-090923		1452	S	1																	X			
27	SS-N-002-090923		1454	S	1																	X			
28	SS-N-003-090923		1456	S	1																	X			
29	SS-N-004-090923		1458	S	1																	X			
30	DUP-003-090923		-	S	1																	X			

	Signature	Company	Date	Time
Relinquished	[signature]	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received	[signature]	ONE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USGG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ ~~2~~ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total ~~RCRA~~ Metals 6010/7471 see comments	Total ~~MTCA~~ Metals	TCLP Metals ~~6010/7471 7421 for total arsenic, lead~~	HEM (oil and grease) 1664	Lead USEPA 6010	DRO & HO by NWTPH-Dx	PCBs	GRO by NWTPH-Gx	% Moisture
31	RS-001-090923	9/9/23	2030	W	4																		X	X	X		
32	RS-002-091023	9/10/23	1420	W	4																		X	X	X	ND	
33~~4~~	WC-001-091023	"	1210	S	5					X			X		X				X		X			⊗		X	⊗
34~~35~~	~~SS-001~~ TN SS-M-001-091023	"	0850	S	1																		X	X			
35~~36~~	SS-M-002-091023	"	0855	S	1																		X	X			
36~~37~~	SS-M-003-091023	"	0900	S	1																		X	X			
37~~38~~	SS-M-004-091023	"	0905	S	1																		X	X			
38	SS-M-005-091023	"	0910	S	1																		X	X			
39	SS-M-006-091023	"	0915	S	1																		X	X			
40	EB-M-001-091023	"	0920	S	1																		X	X			

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received		OSE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Total metals 6010/7471 For: arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver, copper, nickle, zinc

SAMPLE #33 on a separate report

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) Rush
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-061

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Lead USEPA 6010	DRO and HO by NWTPH-DX		MS/MSD	% Moisture
41	EB-M-002-091023	9/10/23	0925	S	1																		X	X			ND
42	EB-M-003-091023	9/10/23	0930	S	~~1~~ 2 DB																		X	X		X	
~~43~~	~~EB-M-003-091023 MS/MSD~~	~~9/10/23~~	~~0930~~	~~S~~	~~1~~																		X	X			
43	Dup-004-091023	9/10/23	-	S	1																		X	X			
~~44~~ DB																											

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/11/23	0600
Received	Courier Service			
Relinquished				
Received		OSE	9/11/23	1120
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 19, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-098

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 13, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

Case Narrative

Samples were collected on September 12, 2023 and received by the laboratory on September 13, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

Sodium Bisulfate preservation has been proven to increase the frequency of detection and the concentration of Acetone and 2-Butanone due in part to chemical reactions in the sample. If Acetone is a potential site contaminant, Sodium Bisulfate should not be used.

Total Metals EPA 6010D/7471B Analysis

The Matrix Spike/ Matrix Spike Duplicate recoveries for Nickel are outside control limits due to matrix inhomogeneity. The samples were re-extracted and re-analyzed with similar results. The Spike Blank recovery was 92%.

Semivolatiles EPA 8270E/SIM Analysis

The percent recovery for 1,4-Dichlorobenzene and Hexachlorocyclopentadiene is outside the control limits in the Spike Blank (or Spike Blank Duplicate). The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

The RPD for 2-Chlorophenol, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, and Hexachloroethane is outside the control limits for the Spike Blank/Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-002-091223**					
Laboratory ID:	09-098-01					
Dichlorodifluoromethane	ND	0.0018	EPA 8260D	9-13-23	9-13-23	
Chloromethane	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
Vinyl Chloride	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Bromomethane	ND	0.0079	EPA 8260D	9-13-23	9-13-23	
Chloroethane	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
Trichlorofluoromethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,1-Dichloroethene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Acetone	0.23	0.063	EPA 8260D	9-13-23	9-13-23	
Iodomethane	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
Carbon Disulfide	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Methylene Chloride	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Methyl t-Butyl Ether	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,1-Dichloroethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Vinyl Acetate	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
2,2-Dichloropropane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
2-Butanone	ND	0.013	EPA 8260D	9-13-23	9-13-23	
Bromochloromethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Chloroform	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Carbon Tetrachloride	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,1-Dichloropropene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Benzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,2-Dichloroethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Trichloroethene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,2-Dichloropropane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Dibromomethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Bromodichloromethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Methyl Isobutyl Ketone	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
Toluene	ND	0.0063	EPA 8260D	9-13-23	9-13-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-002-091223**					
Laboratory ID:	09-098-01					
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,1,2-Trichloroethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Tetrachloroethene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,3-Dichloropropane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
2-Hexanone	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
Dibromochloromethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,2-Dibromoethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Chlorobenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Ethylbenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
m,p-Xylene	ND	0.0025	EPA 8260D	9-13-23	9-13-23	
o-Xylene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Styrene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Bromoform	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
Isopropylbenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Bromobenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
n-Propylbenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
2-Chlorotoluene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
4-Chlorotoluene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,3,5-Trimethylbenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
tert-Butylbenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,2,4-Trimethylbenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
sec-Butylbenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
p-Isopropyltoluene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,4-Dichlorobenzene	0.0013	0.0013	EPA 8260D	9-13-23	9-13-23	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
n-Butylbenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
1,2,4-Trichlorobenzene	0.0017	0.0013	EPA 8260D	9-13-23	9-13-23	
Hexachlorobutadiene	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
Naphthalene	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260D	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*75-130*				
Toluene-d8	*97*	*78-128*				
4-Bromofluorobenzene	*97*	*71-130*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0913S1					
Dichlorodifluoromethane	ND	0.0014	EPA 8260D	9-13-23	9-13-23	
Chloromethane	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Bromomethane	ND	0.0063	EPA 8260D	9-13-23	9-13-23	
Chloroethane	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Acetone	ND	0.050	EPA 8260D	9-13-23	9-13-23	
Iodomethane	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
Carbon Disulfide	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Methylene Chloride	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Vinyl Acetate	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
2-Butanone	ND	0.010	EPA 8260D	9-13-23	9-13-23	
Bromochloromethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Chloroform	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Benzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Trichloroethene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Dibromomethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
Toluene	ND	0.0050	EPA 8260D	9-13-23	9-13-23	

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Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0913S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
2-Hexanone	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Chlorobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Ethylbenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
m,p-Xylene	ND	0.0020	EPA 8260D	9-13-23	9-13-23	
o-Xylene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Styrene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Bromoform	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
Isopropylbenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Bromobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
n-Propylbenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
tert-Butylbenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
sec-Butylbenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
n-Butylbenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
Naphthalene	ND	0.0050	EPA 8260D	9-13-23	9-13-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-13-23	9-13-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*75-130*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*104*	*71-130*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0913S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0357**	**0.0328**	0.0500	0.0500	71	66	30-160	8	26	
Chloromethane	**0.0403**	**0.0370**	0.0500	0.0500	81	74	59-131	9	26	
Vinyl Chloride	**0.0450**	**0.0430**	0.0500	0.0500	90	86	68-136	5	23	
Bromomethane	**0.0395**	**0.0407**	0.0500	0.0500	79	81	48-155	3	32	
Chloroethane	**0.0472**	**0.0427**	0.0500	0.0500	94	85	67-141	10	16	
Trichlorofluoromethane	**0.0472**	**0.0454**	0.0500	0.0500	94	91	76-127	4	19	
1,1-Dichloroethene	**0.0496**	**0.0485**	0.0500	0.0500	99	97	75-129	2	19	
Acetone	**0.0567**	**0.0699**	0.0500	0.0500	113	140	49-158	21	37	
Iodomethane	**0.0442**	**0.0422**	0.0500	0.0500	88	84	37-140	5	27	
Carbon Disulfide	**0.0408**	**0.0377**	0.0500	0.0500	82	75	41-143	8	19	
Methylene Chloride	**0.0439**	**0.0452**	0.0500	0.0500	88	90	60-124	3	18	
(trans) 1,2-Dichloroethene	**0.0487**	**0.0473**	0.0500	0.0500	97	95	79-133	3	15	
Methyl t-Butyl Ether	**0.0512**	**0.0507**	0.0500	0.0500	102	101	73-125	1	17	
1,1-Dichloroethane	**0.0506**	**0.0483**	0.0500	0.0500	101	97	79-125	5	17	
Vinyl Acetate	**0.0547**	**0.0553**	0.0500	0.0500	109	111	51-145	1	41	
2,2-Dichloropropane	**0.0510**	**0.0493**	0.0500	0.0500	102	99	79-126	3	18	
(cis) 1,2-Dichloroethene	**0.0509**	**0.0488**	0.0500	0.0500	102	98	75-131	4	15	
2-Butanone	**0.0547**	**0.0628**	0.0500	0.0500	109	126	54-145	14	32	
Bromochloromethane	**0.0510**	**0.0507**	0.0500	0.0500	102	101	80-126	1	15	
Chloroform	**0.0497**	**0.0505**	0.0500	0.0500	99	101	80-123	2	15	
1,1,1-Trichloroethane	**0.0505**	**0.0490**	0.0500	0.0500	101	98	78-124	3	21	
Carbon Tetrachloride	**0.0496**	**0.0482**	0.0500	0.0500	99	96	74-127	3	18	
1,1-Dichloropropene	**0.0487**	**0.0477**	0.0500	0.0500	97	95	80-123	2	15	
Benzene	**0.0494**	**0.0489**	0.0500	0.0500	99	98	80-122	1	18	
1,2-Dichloroethane	**0.0522**	**0.0525**	0.0500	0.0500	104	105	75-124	1	15	
Trichloroethene	**0.0521**	**0.0535**	0.0500	0.0500	104	107	80-129	3	18	
1,2-Dichloropropane	**0.0538**	**0.0526**	0.0500	0.0500	108	105	80-123	2	15	
Dibromomethane	**0.0556**	**0.0566**	0.0500	0.0500	111	113	80-123	2	15	
Bromodichloromethane	**0.0558**	**0.0540**	0.0500	0.0500	112	108	80-129	3	15	
(cis) 1,3-Dichloropropene	**0.0584**	**0.0570**	0.0500	0.0500	117	114	80-130	2	15	
Methyl Isobutyl Ketone	**0.0636**	**0.0660**	0.0500	0.0500	127	132	63-137	4	27	
Toluene	**0.0525**	**0.0507**	0.0500	0.0500	105	101	80-120	3	18	
(trans) 1,3-Dichloropropene	**0.0575**	**0.0572**	0.0500	0.0500	115	114	80-124	1	15	

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Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0913S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0542**	**0.0540**	0.0500	0.0500	108	108	80-120	0	15	
Tetrachloroethene	**0.0547**	**0.0531**	0.0500	0.0500	109	106	77-126	3	15	
1,3-Dichloropropane	**0.0549**	**0.0537**	0.0500	0.0500	110	107	77-123	2	15	
2-Hexanone	**0.0617**	**0.0667**	0.0500	0.0500	123	133	53-137	8	29	
Dibromochloromethane	**0.0583**	**0.0588**	0.0500	0.0500	117	118	80-128	1	16	
1,2-Dibromoethane	**0.0566**	**0.0562**	0.0500	0.0500	113	112	80-122	1	20	
Chlorobenzene	**0.0552**	**0.0536**	0.0500	0.0500	110	107	80-120	3	18	
1,1,1,2-Tetrachloroethane	**0.0575**	**0.0555**	0.0500	0.0500	115	111	80-120	4	15	
Ethylbenzene	**0.0533**	**0.0522**	0.0500	0.0500	107	104	80-120	2	15	
m,p-Xylene	**0.112**	**0.108**	0.100	0.100	112	108	80-120	4	15	
o-Xylene	**0.0553**	**0.0533**	0.0500	0.0500	111	107	80-120	4	15	
Styrene	**0.0562**	**0.0548**	0.0500	0.0500	112	110	80-122	3	15	
Bromoform	**0.0609**	**0.0607**	0.0500	0.0500	122	121	78-126	0	15	
Isopropylbenzene	**0.0566**	**0.0550**	0.0500	0.0500	113	110	80-125	3	15	
Bromobenzene	**0.0526**	**0.0525**	0.0500	0.0500	105	105	79-124	0	15	
1,1,2,2-Tetrachloroethane	**0.0555**	**0.0561**	0.0500	0.0500	111	112	75-122	1	17	
1,2,3-Trichloropropane	**0.0540**	**0.0558**	0.0500	0.0500	108	112	72-125	3	20	
n-Propylbenzene	**0.0540**	**0.0521**	0.0500	0.0500	108	104	77-126	4	16	
2-Chlorotoluene	**0.0556**	**0.0528**	0.0500	0.0500	111	106	75-128	5	15	
4-Chlorotoluene	**0.0541**	**0.0526**	0.0500	0.0500	108	105	78-127	3	16	
1,3,5-Trimethylbenzene	**0.0540**	**0.0516**	0.0500	0.0500	108	103	77-128	5	15	
tert-Butylbenzene	**0.0527**	**0.0520**	0.0500	0.0500	105	104	73-130	1	20	
1,2,4-Trimethylbenzene	**0.0523**	**0.0514**	0.0500	0.0500	105	103	77-125	2	16	
sec-Butylbenzene	**0.0540**	**0.0527**	0.0500	0.0500	108	105	75-130	2	17	
1,3-Dichlorobenzene	**0.0549**	**0.0546**	0.0500	0.0500	110	109	78-123	1	17	
p-Isopropyltoluene	**0.0550**	**0.0539**	0.0500	0.0500	110	108	75-130	2	18	
1,4-Dichlorobenzene	**0.0554**	**0.0550**	0.0500	0.0500	111	110	77-121	1	17	
1,2-Dichlorobenzene	**0.0548**	**0.0550**	0.0500	0.0500	110	110	80-120	0	15	
n-Butylbenzene	**0.0563**	**0.0561**	0.0500	0.0500	113	112	76-131	0	20	
1,2-Dibromo-3-chloropropane	**0.0580**	**0.0634**	0.0500	0.0500	116	127	61-137	9	28	
1,2,4-Trichlorobenzene	**0.0565**	**0.0572**	0.0500	0.0500	113	114	77-127	1	17	
Hexachlorobutadiene	**0.0570**	**0.0550**	0.0500	0.0500	114	110	77-125	4	22	
Naphthalene	**0.0569**	**0.0586**	0.0500	0.0500	114	117	68-129	3	19	
1,2,3-Trichlorobenzene	**0.0580**	**0.0584**	0.0500	0.0500	116	117	77-124	1	19	
Surrogate:										
Dibromofluoromethane					*92*	*95*	*75-130*			
Toluene-d8					*100*	*97*	*78-128*			
4-Bromofluorobenzene					*102*	*104*	*71-130*			

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Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-002-091223**					
Laboratory ID:	09-098-01					
Aroclor 1016	**ND**	1.1	EPA 8082A	9-15-23	9-18-23	
Aroclor 1221	**ND**	1.1	EPA 8082A	9-15-23	9-18-23	
Aroclor 1232	**ND**	1.1	EPA 8082A	9-15-23	9-18-23	
Aroclor 1242	**ND**	1.1	EPA 8082A	9-15-23	9-18-23	
Aroclor 1248	**ND**	1.1	EPA 8082A	9-15-23	9-18-23	
Aroclor 1254	**ND**	1.1	EPA 8082A	9-15-23	9-18-23	
Aroclor 1260	**12**	1.1	EPA 8082A	9-15-23	9-18-23	
Aroclor 1262	**ND**	1.1	EPA 8082A	9-15-23	9-18-23	
Aroclor 1268	**ND**	1.1	EPA 8082A	9-15-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	---	*50-127*				S

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*93*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-116-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.292**	**0.323**	0.500	0.500	ND	**58**	**65**	41-121	10	28	
Surrogate:											
DCB						*66*	*75*	*50-127*			

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Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-002-091223**					
Laboratory ID:	09-098-01					
Arsenic	**11**	11	EPA 6010D	9-15-23	9-15-23	
Barium	**70**	2.8	EPA 6010D	9-15-23	9-15-23	
Cadmium	**ND**	0.55	EPA 6010D	9-15-23	9-15-23	
Chromium	**64**	0.55	EPA 6010D	9-15-23	9-15-23	
Copper	**24**	1.1	EPA 6010D	9-15-23	9-15-23	
Lead	**88**	5.5	EPA 6010D	9-15-23	9-15-23	
Mercury	**ND**	0.28	EPA 7471B	9-14-23	9-14-23	
Nickel	**310**	2.8	EPA 6010D	9-15-23	9-15-23	
Selenium	**ND**	11	EPA 6010D	9-15-23	9-15-23	
Silver	**ND**	1.1	EPA 6010D	9-15-23	9-15-23	
Zinc	**180**	2.8	EPA 6010D	9-15-23	9-15-23	

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Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915SM1					
Arsenic	**ND**	10	EPA 6010D	9-15-23	9-15-23	
Barium	**ND**	2.5	EPA 6010D	9-15-23	9-15-23	
Cadmium	**ND**	0.50	EPA 6010D	9-15-23	9-15-23	
Chromium	**ND**	0.50	EPA 6010D	9-15-23	9-15-23	
Copper	**ND**	1.0	EPA 6010D	9-15-23	9-15-23	
Lead	**ND**	5.0	EPA 6010D	9-15-23	9-15-23	
Nickel	**ND**	2.5	EPA 6010D	9-15-23	9-15-23	
Selenium	**ND**	10	EPA 6010D	9-15-23	9-15-23	
Silver	**ND**	1.0	EPA 6010D	9-15-23	9-15-23	
Zinc	**ND**	2.5	EPA 6010D	9-15-23	9-15-23	
Laboratory ID:	MB0914S1					
Mercury	**ND**	0.25	EPA 7471B	9-14-23	9-14-23	

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Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	09-098-01									
	ORIG	DUP								
Arsenic	**10.1**	**13.0**	NA	NA		NA	NA	25	20	C
Barium	**63.1**	**55.3**	NA	NA		NA	NA	13	20	
Cadmium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**58.4**	**57.2**	NA	NA		NA	NA	2	20	
Copper	**21.8**	**18.9**	NA	NA		NA	NA	14	20	
Lead	**79.2**	**82.5**	NA	NA		NA	NA	4	20	
Nickel	**283**	**241**	NA	NA		NA	NA	16	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Zinc	**166**	**164**	NA	NA		NA	NA	2	20	
Laboratory ID:	09-034-01									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	09-098-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**95.9**	**96.7**	100	100	10.1	**86**	**87**	75-125	1	20	
Barium	**143**	**141**	100	100	63.1	**80**	**78**	75-125	1	20	
Cadmium	**41.0**	**40.3**	50.0	50.0	ND	**82**	**81**	75-125	2	20	
Chromium	**135**	**133**	100	100	58.4	**77**	**75**	75-125	1	20	
Copper	**63.3**	**66.8**	50.0	50.0	21.8	**83**	**90**	75-125	5	20	
Lead	**293**	**284**	250	250	79.2	**86**	**82**	75-125	3	20	
Nickel	**313**	**314**	100	100	283	**30**	**31**	75-125	0	20	V
Selenium	**82.9**	**82.6**	100	100	ND	**83**	**83**	75-125	0	20	
Silver	**21.8**	**21.3**	25.0	25.0	ND	**87**	**85**	75-125	2	20	
Zinc	**243**	**269**	100	100	166	**76**	**103**	75-125	10	20	
Laboratory ID:	09-034-01									
Mercury	**0.494**	**0.488**	0.500	0.500	0.0158	**96**	**94**	80-120	1	20	

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Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

TCLP LEAD
EPA 1311/6010D

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-002-091223**					
Laboratory ID:	09-098-01					
Lead	**ND**	0.20	EPA 6010D	9-19-23	9-19-23	

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TCLP LEAD
EPA 1311/6010D
QUALITY CONTROL

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919TM1					
Lead	**ND**	0.20	EPA 6010D	9-19-23	9-19-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-098-01										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-098-01										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**10.9**	**9.87**	10.0	10.0	ND	**109**	**99**	75-125	10	20	

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Laboratory Reference: 2309-098
Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-002-091223**					
Laboratory ID:	09-098-01					
Diesel Range Organics	**68**	28	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil	**98**	55	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*72*	*50-150*				

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Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-141-08										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Lube Oil Range Organics	**128**	**103**	NA	NA		NA		NA	22	40	
Surrogate:											
o-Terphenyl						*68*	*71*	*50-150*			

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SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-002-091223**					
Laboratory ID:	09-098-01					
n-Nitrosodimethylamine	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Pyridine	**ND**	0.74	EPA 8270E	9-14-23	9-18-23	
Phenol	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Aniline	**ND**	0.37	EPA 8270E	9-14-23	9-18-23	
bis(2-Chloroethyl)ether	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2-Chlorophenol	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
1,3-Dichlorobenzene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
1,4-Dichlorobenzene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Benzyl alcohol	**ND**	0.15	EPA 8270E	9-14-23	9-18-23	
1,2-Dichlorobenzene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2-Methylphenol (o-Cresol)	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
bis(2-Chloroisopropyl)ether	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
n-Nitroso-di-n-propylamine	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Hexachloroethane	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Nitrobenzene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Isophorone	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2-Nitrophenol	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2,4-Dimethylphenol	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
bis(2-Chloroethoxy)methane	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2,4-Dichlorophenol	**ND**	0.15	EPA 8270E	9-14-23	9-18-23	
1,2,4-Trichlorobenzene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Naphthalene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
4-Chloroaniline	**ND**	0.37	EPA 8270E	9-14-23	9-18-23	
Hexachlorobutadiene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
4-Chloro-3-methylphenol	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2-Methylnaphthalene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
1-Methylnaphthalene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
Hexachlorocyclopentadiene	**ND**	0.37	EPA 8270E	9-14-23	9-18-23	
2,4,6-Trichlorophenol	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2,3-Dichloroaniline	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2,4,5-Trichlorophenol	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2-Chloronaphthalene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2-Nitroaniline	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
1,4-Dinitrobenzene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Dimethylphthalate	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
1,3-Dinitrobenzene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2,6-Dinitrotoluene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
1,2-Dinitrobenzene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Acenaphthylene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
3-Nitroaniline	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	

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Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-002-091223**					
Laboratory ID:	09-098-01					
2,4-Dinitrophenol	**ND**	0.37	EPA 8270E	9-14-23	9-18-23	
Acenaphthene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
4-Nitrophenol	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2,4-Dinitrotoluene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Dibenzofuran	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Diethylphthalate	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
4-Chlorophenyl-phenylether	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
4-Nitroaniline	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Fluorene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
4,6-Dinitro-2-methylphenol	**ND**	0.37	EPA 8270E	9-14-23	9-18-23	
n-Nitrosodiphenylamine	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
1,2-Diphenylhydrazine	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
4-Bromophenyl-phenylether	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Hexachlorobenzene	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Pentachlorophenol	**ND**	0.15	EPA 8270E	9-14-23	9-18-23	
Phenanthrene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
Anthracene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
Carbazole	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Di-n-butylphthalate	**ND**	0.37	EPA 8270E	9-14-23	9-18-23	
Fluoranthene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
Pyrene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
Butylbenzylphthalate	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
bis-2-Ethylhexyladipate	**ND**	0.37	EPA 8270E	9-14-23	9-18-23	
3,3'-Dichlorobenzidine	**ND**	0.37	EPA 8270E	9-14-23	9-18-23	
Benzo[a]anthracene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
Chrysene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.37	EPA 8270E	9-14-23	9-18-23	
Di-n-octylphthalate	**ND**	0.074	EPA 8270E	9-14-23	9-18-23	
Benzo[b]fluoranthene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
Benzo(j,k)fluoranthene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
Benzo[a]pyrene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
Dibenz[a,h]anthracene	**ND**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
Benzo[g,h,i]perylene	**0.0086**	0.0074	EPA 8270E/SIM	9-14-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*24*	*11 - 111*				
Phenol-d6	*30*	*26 - 117*				
Nitrobenzene-d5	*31*	*31 - 111*				
2-Fluorobiphenyl	*40*	*38 - 109*				
2,4,6-Tribromophenol	*47*	*27 - 127*				
Terphenyl-d14	*45*	*37 - 116*				

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Laboratory Reference: 2309-098
Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0914S1					
n-Nitrosodimethylamine	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Pyridine	**ND**	0.33	EPA 8270E	9-14-23	9-14-23	
Phenol	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Aniline	**ND**	0.17	EPA 8270E	9-14-23	9-14-23	
bis(2-Chloroethyl)ether	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2-Chlorophenol	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
1,3-Dichlorobenzene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
1,4-Dichlorobenzene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Benzyl alcohol	**ND**	0.067	EPA 8270E	9-14-23	9-14-23	
1,2-Dichlorobenzene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2-Methylphenol (o-Cresol)	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
bis(2-Chloroisopropyl)ether	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
n-Nitroso-di-n-propylamine	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Hexachloroethane	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Nitrobenzene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Isophorone	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2-Nitrophenol	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2,4-Dimethylphenol	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
bis(2-Chloroethoxy)methane	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2,4-Dichlorophenol	**ND**	0.067	EPA 8270E	9-14-23	9-14-23	
1,2,4-Trichlorobenzene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Naphthalene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
4-Chloroaniline	**ND**	0.17	EPA 8270E	9-14-23	9-14-23	
Hexachlorobutadiene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
4-Chloro-3-methylphenol	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2-Methylnaphthalene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
1-Methylnaphthalene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
Hexachlorocyclopentadiene	**ND**	0.86	EPA 8270E	9-14-23	9-14-23	
2,4,6-Trichlorophenol	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2,3-Dichloroaniline	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2,4,5-Trichlorophenol	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2-Chloronaphthalene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2-Nitroaniline	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
1,4-Dinitrobenzene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Dimethylphthalate	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
1,3-Dinitrobenzene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2,6-Dinitrotoluene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
1,2-Dinitrobenzene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Acenaphthylene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
3-Nitroaniline	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	

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Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0914S1					
2,4-Dinitrophenol	**ND**	0.56	EPA 8270E	9-14-23	9-14-23	
Acenaphthene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
4-Nitrophenol	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2,4-Dinitrotoluene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Dibenzofuran	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Diethylphthalate	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
4-Chlorophenyl-phenylether	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
4-Nitroaniline	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Fluorene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
4,6-Dinitro-2-methylphenol	**ND**	0.56	EPA 8270E	9-14-23	9-14-23	
n-Nitrosodiphenylamine	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
1,2-Diphenylhydrazine	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
4-Bromophenyl-phenylether	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Hexachlorobenzene	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Pentachlorophenol	**ND**	0.067	EPA 8270E	9-14-23	9-14-23	
Phenanthrene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
Anthracene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
Carbazole	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Di-n-butylphthalate	**ND**	0.17	EPA 8270E	9-14-23	9-14-23	
Fluoranthene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
Pyrene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
Butylbenzylphthalate	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270E	9-14-23	9-14-23	
3,3'-Dichlorobenzidine	**ND**	0.17	EPA 8270E	9-14-23	9-14-23	
Benzo[a]anthracene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
Chrysene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270E	9-14-23	9-14-23	
Di-n-octylphthalate	**ND**	0.033	EPA 8270E	9-14-23	9-14-23	
Benzo[b]fluoranthene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
Benzo(j,k)fluoranthene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
Benzo[a]pyrene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
Dibenz[a,h]anthracene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
Benzo[g,h,i]perylene	**ND**	0.0033	EPA 8270E/SIM	9-14-23	9-14-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*70*	*11 - 111*				
Phenol-d6	*67*	*26 - 117*				
Nitrobenzene-d5	*68*	*31 - 111*				
2-Fluorobiphenyl	*82*	*38 - 109*				
2,4,6-Tribromophenol	*96*	*27 - 127*				
Terphenyl-d14	*86*	*37 - 116*				

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Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0914S1									
	SB	SBD	SB	SBD	SB	SBD				
n-Nitrosodimethylamine	**0.405**	**0.532**	0.667	0.667	61	80	20 - 120	27	30	
Pyridine	**0.181**	**0.235**	0.667	0.667	27	35	20 - 120	26	30	
Phenol	**0.416**	**0.482**	0.667	0.667	62	72	49 - 109	15	23	
Aniline	**0.393**	**0.474**	0.667	0.667	59	71	20 - 120	19	30	
bis(2-Chloroethyl)ether	**0.317**	**0.413**	0.667	0.667	48	62	20 - 120	26	30	
2-Chlorophenol	**0.355**	**0.469**	0.667	0.667	53	70	52 - 105	28	26	L
1,3-Dichlorobenzene	**0.348**	**0.473**	0.667	0.667	52	71	20 - 120	30	30	L
1,4-Dichlorobenzene	**0.340**	**0.486**	0.667	0.667	51	73	51 - 102	35	28	I,L
Benzyl alcohol	**0.404**	**0.481**	0.667	0.667	61	72	20 - 120	17	30	
1,2-Dichlorobenzene	**0.353**	**0.476**	0.667	0.667	53	71	20 - 120	30	30	
2-Methylphenol (o-Cresol)	**0.429**	**0.486**	0.667	0.667	64	73	20 - 120	12	30	
bis(2-Chloroisopropyl)ether	**0.345**	**0.435**	0.667	0.667	52	65	20 - 120	23	30	
(3+4)-Methylphenol (m,p-Cresol)	**0.457**	**0.490**	0.667	0.667	69	73	20 - 120	7	30	
n-Nitroso-di-n-propylamine	**0.465**	**0.460**	0.667	0.667	70	69	46 - 111	1	25	
Hexachloroethane	**0.264**	**0.385**	0.667	0.667	40	58	20 - 120	37	30	L
Nitrobenzene	**0.436**	**0.489**	0.667	0.667	65	73	20 - 120	11	30	
Isophorone	**0.472**	**0.504**	0.667	0.667	71	76	20 - 120	7	30	
2-Nitrophenol	**0.403**	**0.438**	0.667	0.667	60	66	20 - 120	8	30	
2,4-Dimethylphenol	**0.622**	**0.650**	0.667	0.667	93	97	20 - 120	4	30	
bis(2-Chloroethoxy)methane	**0.452**	**0.455**	0.667	0.667	68	68	20 - 120	1	30	
2,4-Dichlorophenol	**0.501**	**0.522**	0.667	0.667	75	78	20 - 120	4	30	
1,2,4-Trichlorobenzene	**0.426**	**0.503**	0.667	0.667	64	75	52 - 106	17	28	
Naphthalene	**0.425**	**0.450**	0.667	0.667	64	67	20 - 120	6	30	
4-Chloroaniline	**0.444**	**0.490**	0.667	0.667	67	73	20 - 120	10	30	
Hexachlorobutadiene	**0.422**	**0.528**	0.667	0.667	63	79	20 - 120	22	30	
4-Chloro-3-methylphenol	**0.502**	**0.548**	0.667	0.667	75	82	54 - 112	9	20	
2-Methylnaphthalene	**0.482**	**0.538**	0.667	0.667	72	81	20 - 120	11	30	
1-Methylnaphthalene	**0.479**	**0.485**	0.667	0.667	72	73	20 - 120	1	30	
Hexachlorocyclopentadiene	**0.106**	**0.114**	0.667	0.667	16	17	20 - 120	7	30	I,I
2,4,6-Trichlorophenol	**0.525**	**0.532**	0.667	0.667	79	80	20 - 120	1	30	
2,3-Dichloroaniline	**0.462**	**0.482**	0.667	0.667	69	72	20 - 120	4	30	
2,4,5-Trichlorophenol	**0.518**	**0.545**	0.667	0.667	78	82	20 - 120	5	30	
2-Chloronaphthalene	**0.502**	**0.544**	0.667	0.667	75	82	20 - 120	8	30	
2-Nitroaniline	**0.498**	**0.554**	0.667	0.667	75	83	20 - 120	11	30	
1,4-Dinitrobenzene	**0.496**	**0.559**	0.667	0.667	74	84	20 - 120	12	30	
Dimethylphthalate	**0.534**	**0.577**	0.667	0.667	80	87	20 - 120	8	30	
1,3-Dinitrobenzene	**0.476**	**0.563**	0.667	0.667	71	84	20 - 120	17	30	
2,6-Dinitrotoluene	**0.481**	**0.545**	0.667	0.667	72	82	20 - 120	12	30	
1,2-Dinitrobenzene	**0.434**	**0.483**	0.667	0.667	65	72	20 - 120	11	30	
Acenaphthylene	**0.505**	**0.539**	0.667	0.667	76	81	20 - 120	7	30	
3-Nitroaniline	**0.509**	**0.531**	0.667	0.667	76	80	20 - 120	4	30	

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Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0914S1									
	SB	SBD	SB	SBD	SB	SBD				
2,4-Dinitrophenol	**0.147**	**0.151**	0.667	0.667	22	23	20 - 120	3	30	
Acenaphthene	**0.482**	**0.557**	0.667	0.667	72	84	55 - 101	14	20	
4-Nitrophenol	**0.482**	**0.557**	0.667	0.667	72	84	34 - 136	14	22	
2,4-Dinitrotoluene	**0.406**	**0.477**	0.667	0.667	61	72	51 - 111	16	21	
Dibenzofuran	**0.503**	**0.530**	0.667	0.667	75	79	20 - 120	5	30	
2,3,5,6-Tetrachlorophenol	**0.478**	**0.525**	0.667	0.667	72	79	20 - 120	9	30	
2,3,4,6-Tetrachlorophenol	**0.453**	**0.545**	0.667	0.667	68	82	20 - 120	18	30	
Diethylphthalate	**0.506**	**0.523**	0.667	0.667	76	78	20 - 120	3	30	
4-Chlorophenyl-phenylether	**0.552**	**0.584**	0.667	0.667	83	88	20 - 120	6	30	
4-Nitroaniline	**0.484**	**0.555**	0.667	0.667	73	83	20 - 120	14	30	
Fluorene	**0.525**	**0.591**	0.667	0.667	79	89	20 - 120	12	30	
4,6-Dinitro-2-methylphenol	**0.138**	**0.156**	0.667	0.667	21	23	20 - 120	12	30	
n-Nitrosodiphenylamine	**0.533**	**0.587**	0.667	0.667	80	88	20 - 120	10	30	
1,2-Diphenylhydrazine	**0.550**	**0.583**	0.667	0.667	82	87	20 - 120	6	30	
4-Bromophenyl-phenylether	**0.562**	**0.606**	0.667	0.667	84	91	20 - 120	8	30	
Hexachlorobenzene	**0.561**	**0.571**	0.667	0.667	84	86	20 - 120	2	30	
Pentachlorophenol	**0.486**	**0.534**	0.667	0.667	73	80	34 - 134	9	23	
Phenanthrene	**0.509**	**0.573**	0.667	0.667	76	86	20 - 120	12	30	
Anthracene	**0.537**	**0.617**	0.667	0.667	81	93	20 - 120	14	30	
Carbazole	**0.518**	**0.577**	0.667	0.667	78	87	20 - 120	11	30	
Di-n-butylphthalate	**0.503**	**0.559**	0.667	0.667	75	84	20 - 120	11	30	
Fluoranthene	**0.534**	**0.609**	0.667	0.667	80	91	20 - 120	13	30	
Pyrene	**0.519**	**0.564**	0.667	0.667	78	85	53 - 113	8	20	
Butylbenzylphthalate	**0.482**	**0.544**	0.667	0.667	72	82	20 - 120	12	30	
bis-2-Ethylhexyladipate	**0.439**	**0.486**	0.667	0.667	66	73	20 - 120	10	30	
3,3'-Dichlorobenzidine	**0.494**	**0.539**	0.667	0.667	74	81	20 - 120	9	30	
Benzo[a]anthracene	**0.503**	**0.574**	0.667	0.667	75	86	20 - 120	13	30	
Chrysene	**0.534**	**0.607**	0.667	0.667	80	91	20 - 120	13	30	
bis(2-Ethylhexyl)phthalate	**0.424**	**0.497**	0.667	0.667	64	75	20 - 120	16	30	
Di-n-octylphthalate	**0.486**	**0.530**	0.667	0.667	73	79	20 - 120	9	30	
Benzo[b]fluoranthene	**0.537**	**0.559**	0.667	0.667	81	84	20 - 120	4	30	
Benzo(j,k)fluoranthene	**0.585**	**0.639**	0.667	0.667	88	96	20 - 120	9	30	
Benzo[a]pyrene	**0.581**	**0.633**	0.667	0.667	87	95	20 - 120	9	30	
Indeno[1,2,3-cd]pyrene	**0.538**	**0.597**	0.667	0.667	81	90	20 - 120	10	30	
Dibenz[a,h]anthracene	**0.524**	**0.590**	0.667	0.667	79	88	20 - 120	12	30	
Benzo[g,h,i]perylene	**0.526**	**0.567**	0.667	0.667	79	85	20 - 120	8	30	
Surrogate:										
2-Fluorophenol					*58*	*71*	*11 - 111*			
Phenol-d6					*63*	*70*	*26 - 117*			
Nitrobenzene-d5					*63*	*70*	*31 - 111*			
2-Fluorobiphenyl					*83*	*82*	*38 - 109*			
2,4,6-Tribromophenol					*87*	*91*	*27 - 127*			
Terphenyl-d14					*84*	*89*	*37 - 116*			

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Date of Report: September 19, 2023
Samples Submitted: September 13, 2023
Laboratory Reference: 2309-098
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
WC-002-091223	09-098-01	**10**	9-14-23

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Page 1 of 1

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☒ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-098

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total ~~RCRA~~ Metals As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Ni, Zn	Total MTCA Metals	TCLP Metals (Pb only)	HEM (oil and grease) 1664	DRO/HO (NWTPH-Dx)	SVOCs (8270)			% Moisture
1	WC-002-091223	9/12/23	1245	S	4					X					X				X		X		X	X			X

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/13/23	0600
Received	Courier Service			
Relinquished				
Received		ONE	9/13/23	1130
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 19, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-143

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 15, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 19, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-143
Project: 30092874.00003

Case Narrative

Samples were collected on September 14, 2023 and received by the laboratory on September 15, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis

The RPD for 1,1,2,2-Tetrachloroethane is outside the control limits for the Spike Blank/Spike Blank Duplicate. The percent recoveries on both spike blanks are within recovery limits. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Sodium Bisulfate preservation has been proven to increase the frequency of detection and the concentration of Acetone and 2-Butanone due in part to chemical reactions in the sample. If Acetone is a potential site contaminant, Sodium Bisulfate should not be used.

Semivolatiles EPA 8270E/SIM Analysis

The percent recovery for Pyridine, Hexachlorocyclopentadiene, and 3,3'-Dichlorobenzidine is outside the control limits in the Spike Blank and/or Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

The RPD for Hexachlorocyclopentadiene, 4-Nitroaniline, and 3,3'-Dichlorobenzidine is outside the control limits for the Spike Blank/Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Total Metals EPA 6010D/7471B Analysis

The duplicate RPD for Lead and Barium is outside control limits due to sample inhomogeneity.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Zinc are outside control limits due to matrix inhomogeneity. The Spike Blank recovery was 96%.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: September 19, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-143
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-003-091423**					
Laboratory ID:	09-143-01					
Dichlorodifluoromethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Chloromethane	ND	0.0057	EPA 8260D	9-15-23	9-15-23	
Vinyl Chloride	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Bromomethane	ND	0.0057	EPA 8260D	9-15-23	9-15-23	
Chloroethane	ND	0.0057	EPA 8260D	9-15-23	9-15-23	
Trichlorofluoromethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Acetone	0.20	0.057	EPA 8260D	9-15-23	9-15-23	
Iodomethane	ND	0.0057	EPA 8260D	9-15-23	9-15-23	
Carbon Disulfide	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Methylene Chloride	ND	0.0079	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Vinyl Acetate	ND	0.0057	EPA 8260D	9-15-23	9-15-23	
2,2-Dichloropropane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
2-Butanone	ND	0.011	EPA 8260D	9-15-23	9-15-23	
Bromochloromethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Chloroform	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Carbon Tetrachloride	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloropropene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Benzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,2-Dichloroethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,2-Dichloropropane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Dibromomethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Bromodichloromethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Methyl Isobutyl Ketone	ND	0.0057	EPA 8260D	9-15-23	9-15-23	
Toluene	ND	0.0057	EPA 8260D	9-15-23	9-15-23	

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Laboratory Reference: 2309-143
Project: 30092874.00003

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-003-091423**					
Laboratory ID:	09-143-01					
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,1,2-Trichloroethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,3-Dichloropropane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
2-Hexanone	ND	0.0057	EPA 8260D	9-15-23	9-15-23	
Dibromochloromethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,2-Dibromoethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Chlorobenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Ethylbenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
m,p-Xylene	ND	0.0023	EPA 8260D	9-15-23	9-15-23	
o-Xylene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Styrene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Bromoform	ND	0.0057	EPA 8260D	9-15-23	9-15-23	
Isopropylbenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Bromobenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
n-Propylbenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
2-Chlorotoluene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
4-Chlorotoluene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
tert-Butylbenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
sec-Butylbenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
p-Isopropyltoluene	0.0015	0.0011	EPA 8260D	9-15-23	9-15-23	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
n-Butylbenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260D	9-15-23	9-15-23	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Hexachlorobutadiene	ND	0.0057	EPA 8260D	9-15-23	9-15-23	
Naphthalene	ND	0.0057	EPA 8260D	9-15-23	9-15-23	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*75-130*				
Toluene-d8	*97*	*78-128*				
4-Bromofluorobenzene	*91*	*71-130*				

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Date of Report: September 19, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-143
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Chloromethane	ND	0.0050	EPA 8260D	9-15-23	9-15-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Bromomethane	ND	0.0050	EPA 8260D	9-15-23	9-15-23	
Chloroethane	ND	0.0050	EPA 8260D	9-15-23	9-15-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Acetone	ND	0.050	EPA 8260D	9-15-23	9-15-23	
Iodomethane	ND	0.0050	EPA 8260D	9-15-23	9-15-23	
Carbon Disulfide	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Methylene Chloride	ND	0.0070	EPA 8260D	9-15-23	9-15-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Vinyl Acetate	ND	0.0050	EPA 8260D	9-15-23	9-15-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
2-Butanone	ND	0.010	EPA 8260D	9-15-23	9-15-23	
Bromochloromethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Chloroform	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Benzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Trichloroethene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Dibromomethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	9-15-23	9-15-23	
Toluene	ND	0.0050	EPA 8260D	9-15-23	9-15-23	

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Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
2-Hexanone	ND	0.0050	EPA 8260D	9-15-23	9-15-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Chlorobenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Ethylbenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
m,p-Xylene	ND	0.0020	EPA 8260D	9-15-23	9-15-23	
o-Xylene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Styrene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Bromoform	ND	0.0050	EPA 8260D	9-15-23	9-15-23	
Isopropylbenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Bromobenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
n-Propylbenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
tert-Butylbenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
sec-Butylbenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
n-Butylbenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-15-23	9-15-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-15-23	9-15-23	
Naphthalene	ND	0.0050	EPA 8260D	9-15-23	9-15-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*75-130*				
Toluene-d8	*99*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

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Date of Report: September 19, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-143
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0915S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0619**	**0.0580**	0.0500	0.0500	124	116	30-160	7	26	
Chloromethane	**0.0503**	**0.0481**	0.0500	0.0500	101	96	59-131	4	26	
Vinyl Chloride	**0.0537**	**0.0519**	0.0500	0.0500	107	104	68-136	3	23	
Bromomethane	**0.0443**	**0.0440**	0.0500	0.0500	89	88	48-155	1	32	
Chloroethane	**0.0485**	**0.0520**	0.0500	0.0500	97	104	67-141	7	16	
Trichlorofluoromethane	**0.0508**	**0.0517**	0.0500	0.0500	102	103	76-127	2	19	
1,1-Dichloroethene	**0.0531**	**0.0515**	0.0500	0.0500	106	103	75-129	3	19	
Acetone	**0.0598**	**0.0484**	0.0500	0.0500	120	97	49-158	21	37	
Iodomethane	**0.0477**	**0.0464**	0.0500	0.0500	95	93	37-140	3	27	
Carbon Disulfide	**0.0475**	**0.0446**	0.0500	0.0500	95	89	41-143	6	19	
Methylene Chloride	**0.0463**	**0.0456**	0.0500	0.0500	93	91	60-124	2	18	
(trans) 1,2-Dichloroethene	**0.0485**	**0.0503**	0.0500	0.0500	97	101	79-133	4	15	
Methyl t-Butyl Ether	**0.0508**	**0.0475**	0.0500	0.0500	102	95	73-125	7	17	
1,1-Dichloroethane	**0.0504**	**0.0498**	0.0500	0.0500	101	100	79-125	1	17	
Vinyl Acetate	**0.0445**	**0.0408**	0.0500	0.0500	89	82	51-145	9	41	
2,2-Dichloropropane	**0.0484**	**0.0471**	0.0500	0.0500	97	94	79-126	3	18	
(cis) 1,2-Dichloroethene	**0.0514**	**0.0477**	0.0500	0.0500	103	95	75-131	7	15	
2-Butanone	**0.0522**	**0.0414**	0.0500	0.0500	104	83	54-145	23	32	
Bromochloromethane	**0.0521**	**0.0497**	0.0500	0.0500	104	99	80-126	5	15	
Chloroform	**0.0518**	**0.0515**	0.0500	0.0500	104	103	80-123	1	15	
1,1,1-Trichloroethane	**0.0501**	**0.0500**	0.0500	0.0500	100	100	78-124	0	21	
Carbon Tetrachloride	**0.0496**	**0.0496**	0.0500	0.0500	99	99	74-127	0	18	
1,1-Dichloropropene	**0.0482**	**0.0489**	0.0500	0.0500	96	98	80-123	1	15	
Benzene	**0.0487**	**0.0494**	0.0500	0.0500	97	99	80-122	1	18	
1,2-Dichloroethane	**0.0528**	**0.0498**	0.0500	0.0500	106	100	75-124	6	15	
Trichloroethene	**0.0554**	**0.0534**	0.0500	0.0500	111	107	80-129	4	18	
1,2-Dichloropropane	**0.0533**	**0.0507**	0.0500	0.0500	107	101	80-123	5	15	
Dibromomethane	**0.0561**	**0.0510**	0.0500	0.0500	112	102	80-123	10	15	
Bromodichloromethane	**0.0565**	**0.0540**	0.0500	0.0500	113	108	80-129	5	15	
(cis) 1,3-Dichloropropene	**0.0577**	**0.0547**	0.0500	0.0500	115	109	80-130	5	15	
Methyl Isobutyl Ketone	**0.0559**	**0.0453**	0.0500	0.0500	112	91	63-137	21	27	
Toluene	**0.0516**	**0.0498**	0.0500	0.0500	103	100	80-120	4	18	
(trans) 1,3-Dichloropropene	**0.0556**	**0.0536**	0.0500	0.0500	111	107	80-124	4	15	

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Samples Submitted: September 15, 2023
Laboratory Reference: 2309-143
Project: 30092874.00003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0915S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0533**	**0.0500**	0.0500	0.0500	107	100	80-120	6	15	
Tetrachloroethene	**0.0540**	**0.0537**	0.0500	0.0500	108	107	77-126	1	15	
1,3-Dichloropropane	**0.0538**	**0.0499**	0.0500	0.0500	108	100	77-123	8	15	
2-Hexanone	**0.0571**	**0.0444**	0.0500	0.0500	114	89	53-137	25	29	
Dibromochloromethane	**0.0582**	**0.0547**	0.0500	0.0500	116	109	80-128	6	16	
1,2-Dibromoethane	**0.0559**	**0.0513**	0.0500	0.0500	112	103	80-122	9	20	
Chlorobenzene	**0.0541**	**0.0540**	0.0500	0.0500	108	108	80-120	0	18	
1,1,1,2-Tetrachloroethane	**0.0555**	**0.0548**	0.0500	0.0500	111	110	80-120	1	15	
Ethylbenzene	**0.0524**	**0.0516**	0.0500	0.0500	105	103	80-120	2	15	
m,p-Xylene	**0.109**	**0.107**	0.100	0.100	109	107	80-120	2	15	
o-Xylene	**0.0539**	**0.0520**	0.0500	0.0500	108	104	80-120	4	15	
Styrene	**0.0555**	**0.0527**	0.0500	0.0500	111	105	80-122	5	15	
Bromoform	**0.0602**	**0.0538**	0.0500	0.0500	120	108	78-126	11	15	
Isopropylbenzene	**0.0553**	**0.0541**	0.0500	0.0500	111	108	80-125	2	15	
Bromobenzene	**0.0543**	**0.0511**	0.0500	0.0500	109	102	79-124	6	15	
1,1,2,2-Tetrachloroethane	**0.0560**	**0.0466**	0.0500	0.0500	112	93	75-122	18	17	L
1,2,3-Trichloropropane	**0.0538**	**0.0460**	0.0500	0.0500	108	92	72-125	16	20	
n-Propylbenzene	**0.0532**	**0.0510**	0.0500	0.0500	106	102	77-126	4	16	
2-Chlorotoluene	**0.0552**	**0.0535**	0.0500	0.0500	110	107	75-128	3	15	
4-Chlorotoluene	**0.0543**	**0.0523**	0.0500	0.0500	109	105	78-127	4	16	
1,3,5-Trimethylbenzene	**0.0532**	**0.0509**	0.0500	0.0500	106	102	77-128	4	15	
tert-Butylbenzene	**0.0533**	**0.0516**	0.0500	0.0500	107	103	73-130	3	20	
1,2,4-Trimethylbenzene	**0.0525**	**0.0512**	0.0500	0.0500	105	102	77-125	3	16	
sec-Butylbenzene	**0.0534**	**0.0530**	0.0500	0.0500	107	106	75-130	1	17	
1,3-Dichlorobenzene	**0.0542**	**0.0538**	0.0500	0.0500	108	108	78-123	1	17	
p-Isopropyltoluene	**0.0536**	**0.0532**	0.0500	0.0500	107	106	75-130	1	18	
1,4-Dichlorobenzene	**0.0549**	**0.0539**	0.0500	0.0500	110	108	77-121	2	17	
1,2-Dichlorobenzene	**0.0537**	**0.0523**	0.0500	0.0500	107	105	80-120	3	15	
n-Butylbenzene	**0.0542**	**0.0546**	0.0500	0.0500	108	109	76-131	1	20	
1,2-Dibromo-3-chloropropane	**0.0587**	**0.0489**	0.0500	0.0500	117	98	61-137	18	28	
1,2,4-Trichlorobenzene	**0.0557**	**0.0554**	0.0500	0.0500	111	111	77-127	1	17	
Hexachlorobutadiene	**0.0560**	**0.0549**	0.0500	0.0500	112	110	77-125	2	22	
Naphthalene	**0.0550**	**0.0495**	0.0500	0.0500	110	99	68-129	11	19	
1,2,3-Trichlorobenzene	**0.0558**	**0.0547**	0.0500	0.0500	112	109	77-124	2	19	
Surrogate:										
Dibromofluoromethane					*94*	*94*	*75-130*			
Toluene-d8					*100*	*98*	*78-128*			
4-Bromofluorobenzene					*103*	*100*	*71-130*			

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Date of Report: September 19, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-143
Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-003-091423**					
Laboratory ID:	09-143-01					
n-Nitrosodimethylamine	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Pyridine	**ND**	0.36	EPA 8270E	9-19-23	9-19-23	
Phenol	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Aniline	**ND**	0.18	EPA 8270E	9-19-23	9-19-23	
bis(2-Chloroethyl)ether	**0.044**	0.036	EPA 8270E	9-19-23	9-19-23	
2-Chlorophenol	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
1,3-Dichlorobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
1,4-Dichlorobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Benzyl alcohol	**ND**	0.073	EPA 8270E	9-19-23	9-19-23	
1,2-Dichlorobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2-Methylphenol (o-Cresol)	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
bis(2-Chloroisopropyl)ether	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
n-Nitroso-di-n-propylamine	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Hexachloroethane	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Nitrobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Isophorone	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2-Nitrophenol	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2,4-Dimethylphenol	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
bis(2-Chloroethoxy)methane	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2,4-Dichlorophenol	**ND**	0.073	EPA 8270E	9-19-23	9-19-23	
1,2,4-Trichlorobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Naphthalene	**ND**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
4-Chloroaniline	**ND**	0.18	EPA 8270E	9-19-23	9-19-23	
Hexachlorobutadiene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
4-Chloro-3-methylphenol	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2-Methylnaphthalene	**ND**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
1-Methylnaphthalene	**ND**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
Hexachlorocyclopentadiene	**ND**	0.23	EPA 8270E	9-19-23	9-19-23	
2,4,6-Trichlorophenol	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2,3-Dichloroaniline	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2,4,5-Trichlorophenol	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2-Chloronaphthalene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2-Nitroaniline	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
1,4-Dinitrobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Dimethylphthalate	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
1,3-Dinitrobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2,6-Dinitrotoluene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
1,2-Dinitrobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Acenaphthylene	**ND**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
3-Nitroaniline	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	

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Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-003-091423**					
Laboratory ID:	09-143-01					
2,4-Dinitrophenol	**ND**	0.18	EPA 8270E	9-19-23	9-19-23	
Acenaphthene	**ND**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
4-Nitrophenol	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2,4-Dinitrotoluene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Dibenzofuran	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Diethylphthalate	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
4-Chlorophenyl-phenylether	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
4-Nitroaniline	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Fluorene	**ND**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
4,6-Dinitro-2-methylphenol	**ND**	0.18	EPA 8270E	9-19-23	9-19-23	
n-Nitrosodiphenylamine	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
1,2-Diphenylhydrazine	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
4-Bromophenyl-phenylether	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Hexachlorobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Pentachlorophenol	**ND**	0.18	EPA 8270E	9-19-23	9-19-23	
Phenanthrene	**0.074**	0.036	EPA 8270E	9-19-23	9-19-23	
Anthracene	**0.0095**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
Carbazole	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Di-n-butylphthalate	**ND**	0.18	EPA 8270E	9-19-23	9-19-23	
Fluoranthene	**0.055**	0.036	EPA 8270E	9-19-23	9-19-23	
Pyrene	**0.081**	0.036	EPA 8270E	9-19-23	9-19-23	
Butylbenzylphthalate	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
bis-2-Ethylhexyladipate	**ND**	0.18	EPA 8270E	9-19-23	9-19-23	
3,3'-Dichlorobenzidine	**ND**	0.18	EPA 8270E	9-19-23	9-19-23	
Benzo[a]anthracene	**0.034**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
Chrysene	**0.032**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.18	EPA 8270E	9-19-23	9-19-23	
Di-n-octylphthalate	**ND**	0.036	EPA 8270E	9-19-23	9-19-23	
Benzo[b]fluoranthene	**0.028**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo(j,k)fluoranthene	**0.036**	0.036	EPA 8270E	9-19-23	9-19-23	
Benzo[a]pyrene	**0.030**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
Indeno[1,2,3-cd]pyrene	**0.018**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
Dibenz[a,h]anthracene	**ND**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[g,h,i]perylene	**0.021**	0.0073	EPA 8270E/SIM	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*63*	*11 - 111*				
Phenol-d6	*60*	*26 - 117*				
Nitrobenzene-d5	*71*	*31 - 111*				
2-Fluorobiphenyl	*76*	*38 - 109*				
2,4,6-Tribromophenol	*89*	*27 - 127*				
Terphenyl-d14	*80*	*37 - 116*				

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Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919S2					
n-Nitrosodimethylamine	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Pyridine	**ND**	0.33	EPA 8270E	9-19-23	9-19-23	
Phenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Aniline	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
bis(2-Chloroethyl)ether	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2-Chlorophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
1,3-Dichlorobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
1,4-Dichlorobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Benzyl alcohol	**ND**	0.067	EPA 8270E	9-19-23	9-19-23	
1,2-Dichlorobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2-Methylphenol (o-Cresol)	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
bis(2-Chloroisopropyl)ether	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
n-Nitroso-di-n-propylamine	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Hexachloroethane	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Nitrobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Isophorone	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2-Nitrophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,4-Dimethylphenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
bis(2-Chloroethoxy)methane	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,4-Dichlorophenol	**ND**	0.067	EPA 8270E	9-19-23	9-19-23	
1,2,4-Trichlorobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Naphthalene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
4-Chloroaniline	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
Hexachlorobutadiene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
4-Chloro-3-methylphenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Hexachlorocyclopentadiene	**ND**	0.21	EPA 8270E	9-19-23	9-19-23	
2,4,6-Trichlorophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,3-Dichloroaniline	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,4,5-Trichlorophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2-Chloronaphthalene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2-Nitroaniline	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
1,4-Dinitrobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Dimethylphthalate	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
1,3-Dinitrobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,6-Dinitrotoluene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
1,2-Dinitrobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Acenaphthylene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
3-Nitroaniline	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	

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SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919S2					
2,4-Dinitrophenol	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
Acenaphthene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
4-Nitrophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,4-Dinitrotoluene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Dibenzofuran	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Diethylphthalate	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
4-Chlorophenyl-phenylether	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
4-Nitroaniline	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Fluorene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
4,6-Dinitro-2-methylphenol	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
n-Nitrosodiphenylamine	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
1,2-Diphenylhydrazine	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
4-Bromophenyl-phenylether	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Hexachlorobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Pentachlorophenol	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
Phenanthrene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Anthracene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Carbazole	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Di-n-butylphthalate	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
Fluoranthene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Pyrene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Butylbenzylphthalate	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
3,3'-Dichlorobenzidine	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
Di-n-octylphthalate	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*58*	*11 - 111*				
Phenol-d6	*55*	*26 - 117*				
Nitrobenzene-d5	*55*	*31 - 111*				
2-Fluorobiphenyl	*71*	*38 - 109*				
2,4,6-Tribromophenol	*87*	*27 - 127*				
Terphenyl-d14	*77*	*37 - 116*				

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SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-143-01										
	MS	MSD	MS	MSD		MS	MSD				
n-Nitrosodimethylamine	**0.410**	**0.409**	0.667	0.667	ND	61	61	20 - 120	0	30	
Pyridine	**0.110**	**0.108**	0.667	0.667	ND	16	16	20 - 120	2	30	I,I
Phenol	**0.432**	**0.427**	0.667	0.667	ND	65	64	28 - 112	1	39	
Aniline	**0.232**	**0.230**	0.667	0.667	ND	35	34	20 - 120	1	30	
bis(2-Chloroethyl)ether	**0.377**	**0.353**	0.667	0.667	0.0406	50	47	20 - 120	7	30	
2-Chlorophenol	**0.402**	**0.396**	0.667	0.667	ND	60	59	30 - 108	2	40	
1,3-Dichlorobenzene	**0.348**	**0.342**	0.667	0.667	ND	52	51	20 - 120	2	30	
1,4-Dichlorobenzene	**0.381**	**0.372**	0.667	0.667	ND	57	56	25 - 106	2	44	
Benzyl alcohol	**0.405**	**0.410**	0.667	0.667	ND	61	61	20 - 120	1	30	
1,2-Dichlorobenzene	**0.377**	**0.373**	0.667	0.667	ND	57	56	20 - 120	1	30	
2-Methylphenol (o-Cresol)	**0.427**	**0.396**	0.667	0.667	ND	64	59	20 - 120	8	30	
bis(2-Chloroisopropyl)ether	**0.382**	**0.362**	0.667	0.667	ND	57	54	20 - 120	5	30	
(3+4)-Methylphenol (m,p-Cresol)	**0.448**	**0.428**	0.667	0.667	ND	67	64	20 - 120	5	30	
n-Nitroso-di-n-propylamine	**0.423**	**0.409**	0.667	0.667	ND	63	61	32 - 112	3	42	
Hexachloroethane	**0.262**	**0.205**	0.667	0.667	ND	39	31	20 - 120	24	30	
Nitrobenzene	**0.413**	**0.418**	0.667	0.667	ND	62	63	20 - 120	1	30	
Isophorone	**0.388**	**0.410**	0.667	0.667	ND	58	61	20 - 120	6	30	
2-Nitrophenol	**0.450**	**0.464**	0.667	0.667	ND	67	70	20 - 120	3	30	
2,4-Dimethylphenol	**0.503**	**0.523**	0.667	0.667	ND	75	78	20 - 120	4	30	
bis(2-Chloroethoxy)methane	**0.382**	**0.383**	0.667	0.667	ND	57	57	20 - 120	0	30	
2,4-Dichlorophenol	**0.495**	**0.498**	0.667	0.667	ND	74	75	20 - 120	1	30	
1,2,4-Trichlorobenzene	**0.480**	**0.466**	0.667	0.667	ND	72	70	30 - 110	3	40	
Naphthalene	**0.416**	**0.410**	0.667	0.667	ND	62	61	20 - 120	1	30	
4-Chloroaniline	**0.247**	**0.255**	0.667	0.667	ND	37	38	20 - 120	3	30	
Hexachlorobutadiene	**0.478**	**0.492**	0.667	0.667	ND	72	74	20 - 120	3	30	
4-Chloro-3-methylphenol	**0.452**	**0.472**	0.667	0.667	ND	68	71	44 - 112	4	28	
2-Methylnaphthalene	**0.462**	**0.507**	0.667	0.667	ND	69	76	20 - 120	9	30	
1-Methylnaphthalene	**0.465**	**0.465**	0.667	0.667	ND	70	70	20 - 120	0	30	
Hexachlorocyclopentadiene	**0.197**	**0.129**	0.667	0.667	ND	30	19	20 - 120	42	30	I,L
2,4,6-Trichlorophenol	**0.496**	**0.519**	0.667	0.667	ND	74	78	20 - 120	5	30	
2,3-Dichloroaniline	**0.426**	**0.432**	0.667	0.667	ND	64	65	20 - 120	1	30	
2,4,5-Trichlorophenol	**0.484**	**0.488**	0.667	0.667	ND	73	73	20 - 120	1	30	
2-Chloronaphthalene	**0.474**	**0.477**	0.667	0.667	ND	71	72	20 - 120	1	30	
2-Nitroaniline	**0.454**	**0.497**	0.667	0.667	ND	68	75	20 - 120	9	30	
1,4-Dinitrobenzene	**0.414**	**0.414**	0.667	0.667	ND	62	62	20 - 120	0	30	
Dimethylphthalate	**0.458**	**0.515**	0.667	0.667	ND	69	77	20 - 120	12	30	
1,3-Dinitrobenzene	**0.439**	**0.443**	0.667	0.667	ND	66	66	20 - 120	1	30	
2,6-Dinitrotoluene	**0.452**	**0.461**	0.667	0.667	ND	68	69	20 - 120	2	30	
1,2-Dinitrobenzene	**0.393**	**0.386**	0.667	0.667	ND	59	58	20 - 120	2	30	
Acenaphthylene	**0.461**	**0.473**	0.667	0.667	ND	69	71	20 - 120	3	30	
3-Nitroaniline	**0.465**	**0.442**	0.667	0.667	ND	70	66	20 - 120	5	30	

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Date of Report: September 19, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-143
Project: 30092874.00003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-143-01										
	MS	MSD	MS	MSD		MS	MSD				
2,4-Dinitrophenol	**0.521**	**0.425**	0.667	0.667	ND	78	64	20 - 120	20	30	
Acenaphthene	**0.466**	**0.482**	0.667	0.667	ND	70	72	34 - 107	3	33	
4-Nitrophenol	**0.500**	**0.486**	0.667	0.667	ND	75	73	33 - 140	3	34	
2,4-Dinitrotoluene	**0.401**	**0.414**	0.667	0.667	ND	60	62	38 - 111	3	31	
Dibenzofuran	**0.463**	**0.510**	0.667	0.667	ND	69	76	20 - 120	10	30	
2,3,5,6-Tetrachlorophenol	**0.522**	**0.530**	0.667	0.667	ND	78	79	20 - 120	2	30	
2,3,4,6-Tetrachlorophenol	**0.484**	**0.502**	0.667	0.667	ND	73	75	20 - 120	4	30	
Diethylphthalate	**0.466**	**0.487**	0.667	0.667	ND	70	73	20 - 120	4	30	
4-Chlorophenyl-phenylether	**0.503**	**0.547**	0.667	0.667	ND	75	82	20 - 120	8	30	
4-Nitroaniline	**0.160**	**0.238**	0.667	0.667	ND	24	36	20 - 120	39	30	L
Fluorene	**0.489**	**0.510**	0.667	0.667	ND	73	76	20 - 120	4	30	
4,6-Dinitro-2-methylphenol	**0.443**	**0.341**	0.667	0.667	ND	66	51	20 - 120	26	30	
n-Nitrosodiphenylamine	**0.460**	**0.462**	0.667	0.667	ND	69	69	20 - 120	0	30	
1,2-Diphenylhydrazine	**0.479**	**0.481**	0.667	0.667	ND	72	72	20 - 120	0	30	
4-Bromophenyl-phenylether	**0.478**	**0.497**	0.667	0.667	ND	72	75	20 - 120	4	30	
Hexachlorobenzene	**0.512**	**0.509**	0.667	0.667	ND	77	76	20 - 120	1	30	
Pentachlorophenol	**0.707**	**0.730**	0.667	0.667	0.0719	95	99	27 - 141	3	36	
Phenanthrene	**0.495**	**0.516**	0.667	0.667	0.0676	64	67	20 - 120	4	30	
Anthracene	**0.457**	**0.512**	0.667	0.667	ND	69	77	20 - 120	11	30	
Carbazole	**0.514**	**0.478**	0.667	0.667	ND	77	72	20 - 120	7	30	
Di-n-butylphthalate	**0.562**	**0.576**	0.667	0.667	ND	84	86	20 - 120	2	30	
Fluoranthene	**0.523**	**0.508**	0.667	0.667	0.0505	71	69	20 - 120	3	30	
Pyrene	**0.505**	**0.501**	0.667	0.667	0.0742	65	64	28 - 126	1	33	
Butylbenzylphthalate	**0.487**	**0.446**	0.667	0.667	ND	73	67	20 - 120	9	30	
bis-2-Ethylhexyladipate	**0.445**	**0.435**	0.667	0.667	ND	67	65	20 - 120	2	30	
3,3'-Dichlorobenzidine	**ND**	**ND**	0.667	0.667	ND	0	0	20 - 120	NA	30	I,I,L
Benzo[a]anthracene	**0.501**	**0.469**	0.667	0.667	ND	75	70	20 - 120	7	30	
Chrysene	**0.518**	**0.515**	0.667	0.667	ND	78	77	20 - 120	1	30	
bis(2-Ethylhexyl)phthalate	**0.440**	**0.433**	0.667	0.667	ND	66	65	20 - 120	2	30	
Di-n-octylphthalate	**0.471**	**0.451**	0.667	0.667	ND	71	68	20 - 120	4	30	
Benzo[b]fluoranthene	**0.485**	**0.488**	0.667	0.667	ND	73	73	20 - 120	1	30	
Benzo(j,k)fluoranthene	**0.522**	**0.527**	0.667	0.667	ND	78	79	20 - 120	1	30	
Benzo[a]pyrene	**0.530**	**0.529**	0.667	0.667	ND	79	79	20 - 120	0	30	
Indeno[1,2,3-cd]pyrene	**0.530**	**0.512**	0.667	0.667	ND	79	77	20 - 120	3	30	
Dibenz[a,h]anthracene	**0.496**	**0.508**	0.667	0.667	ND	74	76	20 - 120	2	30	
Benzo[g,h,i]perylene	**0.507**	**0.511**	0.667	0.667	ND	76	77	20 - 120	1	30	
Surrogate:											
2-Fluorophenol						*61*	*59*	*11 - 111*			
Phenol-d6						*63*	*60*	*26 - 117*			
Nitrobenzene-d5						*63*	*64*	*31 - 111*			
2-Fluorobiphenyl						*74*	*71*	*38 - 109*			
2,4,6-Tribromophenol						*85*	*87*	*27 - 127*			
Terphenyl-d14						*75*	*77*	*37 - 116*			

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Date of Report: September 19, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-143
Project: 30092874.00003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-003-091423**					
Laboratory ID:	09-143-01					
Aroclor 1016	**ND**	0.11	EPA 8082A	9-15-23	9-18-23	
Aroclor 1221	**ND**	0.11	EPA 8082A	9-15-23	9-18-23	
Aroclor 1232	**ND**	0.11	EPA 8082A	9-15-23	9-18-23	
Aroclor 1242	**ND**	0.11	EPA 8082A	9-15-23	9-18-23	
Aroclor 1248	**ND**	0.11	EPA 8082A	9-15-23	9-18-23	
Aroclor 1254	**ND**	0.11	EPA 8082A	9-15-23	9-18-23	
Aroclor 1260	**1.8**	0.11	EPA 8082A	9-15-23	9-18-23	
Aroclor 1262	**ND**	0.11	EPA 8082A	9-15-23	9-18-23	
Aroclor 1268	**ND**	0.11	EPA 8082A	9-15-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*54*	*50-127*				

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Laboratory Reference: 2309-143
Project: 30092874.00003

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-15-23	9-16-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*93*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-116-01										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.292**	**0.323**	0.500	0.500	ND	**58**	**65**	41-121	10	28	
Surrogate:											
DCB						*66*	*75*	*50-127*			

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Date of Report: September 19, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-143
Project: 30092874.00003

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-003-091423**					
Laboratory ID:	09-143-01					
Arsenic	**18**	11	EPA 6010D	9-18-23	9-18-23	
Barium	**92**	2.7	EPA 6010D	9-18-23	9-18-23	
Cadmium	**0.62**	0.54	EPA 6010D	9-18-23	9-18-23	
Chromium	**58**	0.54	EPA 6010D	9-18-23	9-18-23	
Copper	**19**	1.1	EPA 6010D	9-18-23	9-18-23	
Lead	**120**	5.4	EPA 6010D	9-18-23	9-18-23	
Mercury	**ND**	0.27	EPA 7471B	9-18-23	9-18-23	
Nickel	**230**	2.7	EPA 6010D	9-18-23	9-18-23	
Selenium	**ND**	11	EPA 6010D	9-18-23	9-18-23	
Silver	**ND**	1.1	EPA 6010D	9-18-23	9-18-23	
Zinc	**170**	2.7	EPA 6010D	9-18-23	9-18-23	

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Date of Report: September 19, 2023
Samples Submitted: September 15, 2023
Laboratory Reference: 2309-143
Project: 30092874.00003

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918SM2					
Arsenic	**ND**	10	EPA 6010D	9-18-23	9-18-23	
Barium	**ND**	2.5	EPA 6010D	9-18-23	9-18-23	
Cadmium	**ND**	0.50	EPA 6010D	9-18-23	9-18-23	
Chromium	**ND**	0.50	EPA 6010D	9-18-23	9-18-23	
Copper	**ND**	1.0	EPA 6010D	9-18-23	9-18-23	
Lead	**ND**	5.0	EPA 6010D	9-18-23	9-18-23	
Nickel	**ND**	2.5	EPA 6010D	9-18-23	9-18-23	
Selenium	**ND**	10	EPA 6010D	9-18-23	9-18-23	
Silver	**ND**	1.0	EPA 6010D	9-18-23	9-18-23	
Zinc	**ND**	2.5	EPA 6010D	9-18-23	9-18-23	
Laboratory ID:	MB0918S1					
Mercury	**ND**	0.25	EPA 7471B	9-18-23	9-18-23	

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Project: 30092874.00003

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	09-143-01									
	ORIG	DUP								
Arsenic	**16.7**	**19.0**	NA	NA		NA	NA	13	20	
Barium	**84.5**	**66.9**	NA	NA		NA	NA	23	20	L
Cadmium	**0.565**	**0.665**	NA	NA		NA	NA	16	20	
Chromium	**53.6**	**61.5**	NA	NA		NA	NA	14	20	
Copper	**17.3**	**18.3**	NA	NA		NA	NA	6	20	
Lead	**107**	**137**	NA	NA		NA	NA	24	20	L
Nickel	**215**	**236**	NA	NA		NA	NA	10	20	
Selenium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Zinc	**154**	**150**	NA	NA		NA	NA	3	20	
Laboratory ID:	09-143-01									
Mercury	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	09-143-01									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**125**	**133**	100	100	16.7	**108**	**116**	75-125	6	20
Barium	**168**	**170**	100	100	84.5	**84**	**86**	75-125	1	20
Cadmium	**49.7**	**50.0**	50.0	50.0	0.565	**98**	**99**	75-125	1	20
Chromium	**150**	**153**	100	100	53.6	**96**	**100**	75-125	2	20
Copper	**70.2**	**71.9**	50.0	50.0	17.3	**106**	**109**	75-125	2	20
Lead	**413**	**409**	250	250	107	**122**	**121**	75-125	1	20
Nickel	**318**	**317**	100	100	215	**103**	**102**	75-125	0	20
Selenium	**97.3**	**96.7**	100	100	ND	**97**	**97**	75-125	1	20
Silver	**24.3**	**24.3**	25.0	25.0	ND	**97**	**97**	75-125	0	20
Zinc	**343**	**379**	100	100	154	**189**	**225**	75-125	10	20
Laboratory ID:	09-143-01									
Mercury	**0.483**	**0.484**	0.500	0.500	0.0293	**91**	**91**	80-120	0	20

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Laboratory Reference: 2309-143
Project: 30092874.00003

TCLP LEAD
EPA 1311/6010D

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-003-091423**					
Laboratory ID:	09-143-01					
Lead	**ND**	0.20	EPA 6010D	9-19-23	9-19-23	

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TCLP LEAD
EPA 1311/6010D
QUALITY CONTROL

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919TM1					
Lead	**ND**	0.20	EPA 6010D	9-19-23	9-19-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-098-01										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-098-01										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**10.9**	**9.87**	10.0	10.0	ND	**109**	**99**	75-125	10	20	

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Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-003-091423**					
Laboratory ID:	09-143-01					
Diesel Range Organics	**170**	27	NWTPH-Dx	9-15-23	9-17-23	
Lube Oil Range Organics	**180**	55	NWTPH-Dx	9-15-23	9-17-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*82*	*50-150*				

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Project: 30092874.00003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0915S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-15-23	9-15-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-15-23	9-15-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	09-141-08									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	40	
Lube Oil Range Organics	**128**	**103**	NA	NA		NA	NA	22	40	
Surrogate:										
o-Terphenyl						*68* *71*	*50-150*			

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Samples Submitted: September 15, 2023
Laboratory Reference: 2309-143
Project: 30092874.00003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
WC-003-091423	09-143-01	**8**	9-15-23

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.00003
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)

(Check One)

- ☐ Same Day
- ☒ 1 Day
- ☐ 2 Days
- ~~☒ 3 Days~~ NB
- ☐ Standard (7 Days)
- ☐ _____ (other)

Laboratory Number: ~~09-142~~ 09-143

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/~~SIM~~ (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals see comments	Total MTCA Metals	TCLP Metals lead only	HEM (oil and grease) 1664	DRO/HO by NWTPH-Dx			% Moisture
1	WC-003-091423	9/14/23	1730	S	5					X			X		X				X		X		X			X

	Signature	Company	Date	Time
Relinquished	Thomas Nannini	Arcadis	9/15/23	0600
Received	Courier Service			
Relinquished				
Received		CTE	9/15/23	1130
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Total Metals (6010/7471); As, Ba, Cd, Cr, Pb, Hg, Se, Ag, Cu, Ni, Zn

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 21, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.0003
Laboratory Reference No. 2309-155

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 18, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

Case Narrative
page 1 of 2

Samples were collected on September 15, 2023 and received by the laboratory on September 18, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260D Analysis - Soil

Sodium Bisulfate preservation has been proven to increase the frequency of detection and the concentration of Acetone and 2-Butanone due in part to chemical reactions in the sample. If Acetone is a potential site contaminant, Sodium Bisulfate should not be used.

Volatiles EPA 8260D Analysis - Solid

Sample WC-009-091523 was received in a plastic bag and was transferred to VOA vials containing stir bars prior to analysis. Some loss of volatiles may have occurred.

Methylene Chloride is a common laboratory solvent and may have been introduced during sample preparation, thereby impacting the sample result.

Semivolatiles EPA 8270E/SIM Analysis - Soil

The percent recovery for Pyridine, Hexachlorocyclopentadiene, and 3,3'-Dichlorobenzidine is outside the control limits in the MS/MSD. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

The RPD for Hexachlorocyclopentadiene, 4-Nitroaniline, and 3,3'-Dichlorobenzidine is outside the control limits for the MS/MSD. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Sample WC-006-091523 had four surrogate recoveries outside of control limits. The sample was re-extracted and re-analyzed with similar results, indicating probable matrix interference.

Semivolatiles EPA 8270E/SIM Analysis - Solid

The percent recovery for Phenol, 2-Chlorophenol, 1,4-Dichlorobenzene,and Hexachlorocyclopentadiene is outside the control limits in the Spike Blank and/or Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

The RPD for Phenol, bis(2-Chloroethyl)ether, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, bis(2-Chloroisopropyl)ether, Hexachloroethane, and Hexachlorocyclopentadiene is outside the control limits for the Spike Blank/Spike Blank Duplicate. The method allows for a percentage of the compounds to fall outside of the control limits due to the large number of analytes being spiked.

Sample WC-009-091523 had one surrogate recovery fall outside of control limits, likely due to sample matrix effects. The method blank and SB/SBD pair had all surrogates within control limits; therefore, no further action was taken.

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

Case Narrative
page 2 of 2

Total Metals EPA 6010D/7471B Analysis - Soil

The sample result is reported on a wet weight basis for 09-155-06 (WC-009-091523).

Due to the high concentration of Nickel in the QC sample, the amount spiked was insufficient for meaningful MS/MSD recovery data. The Spike Blank recovery was 117%.

The duplicate RPD for Copper is outside control limits due to sample inhomogeneity.

The Matrix Spike/ Matrix Spike Duplicate recoveries for Copper are outside control limits due to matrix inhomogeneity. The Spike Blank recovery was 114%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-004-091523**					
Laboratory ID:	09-155-01					
Dichlorodifluoromethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Chloromethane	ND	0.0074	EPA 8260D	9-18-23	9-18-23	
Vinyl Chloride	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Bromomethane	ND	0.0095	EPA 8260D	9-18-23	9-18-23	
Chloroethane	ND	0.0074	EPA 8260D	9-18-23	9-18-23	
Trichlorofluoromethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Acetone	0.35	0.074	EPA 8260D	9-18-23	9-18-23	Y
Iodomethane	ND	0.0074	EPA 8260D	9-18-23	9-18-23	
Carbon Disulfide	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Methylene Chloride	ND	0.0074	EPA 8260D	9-18-23	9-18-23	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Methyl t-Butyl Ether	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Vinyl Acetate	ND	0.0074	EPA 8260D	9-18-23	9-18-23	
2,2-Dichloropropane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
2-Butanone	0.018	0.015	EPA 8260D	9-18-23	9-18-23	
Bromochloromethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Chloroform	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Carbon Tetrachloride	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloropropene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Benzene	0.0023	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloroethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Trichloroethene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloropropane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Dibromomethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Bromodichloromethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Methyl Isobutyl Ketone	ND	0.0074	EPA 8260D	9-18-23	9-18-23	
Toluene	ND	0.0074	EPA 8260D	9-18-23	9-18-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-004-091523**					
Laboratory ID:	09-155-01					
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1,2-Trichloroethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Tetrachloroethene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,3-Dichloropropane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
2-Hexanone	ND	0.0074	EPA 8260D	9-18-23	9-18-23	
Dibromochloromethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromoethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Chlorobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Ethylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
m,p-Xylene	ND	0.0030	EPA 8260D	9-18-23	9-18-23	
o-Xylene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Styrene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Bromoform	ND	0.0074	EPA 8260D	9-18-23	9-18-23	
Isopropylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Bromobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
n-Propylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
2-Chlorotoluene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
4-Chlorotoluene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,3,5-Trimethylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
tert-Butylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trimethylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
sec-Butylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
p-Isopropyltoluene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
n-Butylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromo-3-chloropropane	ND	0.0074	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Hexachlorobutadiene	ND	0.0074	EPA 8260D	9-18-23	9-18-23	
Naphthalene	ND	0.0074	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-130*				
Toluene-d8	*98*	*78-128*				
4-Bromofluorobenzene	*98*	*71-130*				

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-005-091523**					
Laboratory ID:	09-155-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Chloromethane	ND	0.0052	EPA 8260D	9-18-23	9-18-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Bromomethane	ND	0.0067	EPA 8260D	9-18-23	9-18-23	
Chloroethane	ND	0.0052	EPA 8260D	9-18-23	9-18-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Acetone	0.19	0.052	EPA 8260D	9-18-23	9-18-23	Y
Iodomethane	ND	0.0052	EPA 8260D	9-18-23	9-18-23	
Carbon Disulfide	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Methylene Chloride	ND	0.0052	EPA 8260D	9-18-23	9-18-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Vinyl Acetate	ND	0.0052	EPA 8260D	9-18-23	9-18-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
2-Butanone	ND	0.010	EPA 8260D	9-18-23	9-18-23	
Bromochloromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Chloroform	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Benzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Trichloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Dibromomethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Methyl Isobutyl Ketone	ND	0.0052	EPA 8260D	9-18-23	9-18-23	
Toluene	ND	0.0052	EPA 8260D	9-18-23	9-18-23	

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VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-005-091523**					
Laboratory ID:	09-155-02					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
2-Hexanone	ND	0.0052	EPA 8260D	9-18-23	9-18-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Chlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Ethylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
m,p-Xylene	ND	0.0021	EPA 8260D	9-18-23	9-18-23	
o-Xylene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Styrene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Bromoform	ND	0.0052	EPA 8260D	9-18-23	9-18-23	
Isopropylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Bromobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
n-Propylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
tert-Butylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
sec-Butylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
p-Isopropyltoluene	0.0012	0.0010	EPA 8260D	9-18-23	9-18-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
n-Butylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Hexachlorobutadiene	ND	0.0052	EPA 8260D	9-18-23	9-18-23	
Naphthalene	ND	0.0052	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*75-130*				
Toluene-d8	*97*	*78-128*				
4-Bromofluorobenzene	*101*	*71-130*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-006-091523**					
Laboratory ID:	09-155-03					
Dichlorodifluoromethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Chloromethane	ND	0.0096	EPA 8260D	9-18-23	9-18-23	
Vinyl Chloride	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Bromomethane	ND	0.012	EPA 8260D	9-18-23	9-18-23	
Chloroethane	ND	0.0096	EPA 8260D	9-18-23	9-18-23	
Trichlorofluoromethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Acetone	0.65	0.096	EPA 8260D	9-18-23	9-18-23	Y
Iodomethane	ND	0.0096	EPA 8260D	9-18-23	9-18-23	
Carbon Disulfide	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Methylene Chloride	ND	0.0096	EPA 8260D	9-18-23	9-18-23	
(trans) 1,2-Dichloroethene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Methyl t-Butyl Ether	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Vinyl Acetate	ND	0.0096	EPA 8260D	9-18-23	9-18-23	
2,2-Dichloropropane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
(cis) 1,2-Dichloroethene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
2-Butanone	0.044	0.019	EPA 8260D	9-18-23	9-18-23	
Bromochloromethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Chloroform	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,1,1-Trichloroethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Carbon Tetrachloride	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloropropene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Benzene	0.0023	0.0019	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloroethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Trichloroethene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloropropane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Dibromomethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Bromodichloromethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
(cis) 1,3-Dichloropropene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Methyl Isobutyl Ketone	ND	0.0096	EPA 8260D	9-18-23	9-18-23	
Toluene	ND	0.0096	EPA 8260D	9-18-23	9-18-23	

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-006-091523**					
Laboratory ID:	09-155-03					
(trans) 1,3-Dichloropropene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,1,2-Trichloroethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Tetrachloroethene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,3-Dichloropropane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
2-Hexanone	ND	0.0096	EPA 8260D	9-18-23	9-18-23	
Dibromochloromethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromoethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Chlorobenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,1,1,2-Tetrachloroethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Ethylbenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
m,p-Xylene	ND	0.0038	EPA 8260D	9-18-23	9-18-23	
o-Xylene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Styrene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Bromoform	ND	0.0096	EPA 8260D	9-18-23	9-18-23	
Isopropylbenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Bromobenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,1,2,2-Tetrachloroethane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichloropropane	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
n-Propylbenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
2-Chlorotoluene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
4-Chlorotoluene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,3,5-Trimethylbenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
tert-Butylbenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trimethylbenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
sec-Butylbenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,3-Dichlorobenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
p-Isopropyltoluene	0.0070	0.0019	EPA 8260D	9-18-23	9-18-23	
1,4-Dichlorobenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,2-Dichlorobenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
n-Butylbenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromo-3-chloropropane	ND	0.0096	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trichlorobenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Hexachlorobutadiene	ND	0.0096	EPA 8260D	9-18-23	9-18-23	
Naphthalene	ND	0.0096	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichlorobenzene	ND	0.0019	EPA 8260D	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-130*				
Toluene-d8	*96*	*78-128*				
4-Bromofluorobenzene	*92*	*71-130*				

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-007-091523**					
Laboratory ID:	09-155-04					
Dichlorodifluoromethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Chloromethane	ND	0.0076	EPA 8260D	9-18-23	9-18-23	
Vinyl Chloride	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Bromomethane	ND	0.0097	EPA 8260D	9-18-23	9-18-23	
Chloroethane	ND	0.0076	EPA 8260D	9-18-23	9-18-23	
Trichlorofluoromethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Acetone	0.35	0.076	EPA 8260D	9-18-23	9-18-23	Y
Iodomethane	ND	0.0076	EPA 8260D	9-18-23	9-18-23	
Carbon Disulfide	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Methylene Chloride	ND	0.0076	EPA 8260D	9-18-23	9-18-23	
(trans) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Methyl t-Butyl Ether	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Vinyl Acetate	ND	0.0076	EPA 8260D	9-18-23	9-18-23	
2,2-Dichloropropane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
(cis) 1,2-Dichloroethene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
2-Butanone	ND	0.015	EPA 8260D	9-18-23	9-18-23	
Bromochloromethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Chloroform	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1,1-Trichloroethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Carbon Tetrachloride	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloropropene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Benzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloroethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Trichloroethene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloropropane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Dibromomethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Bromodichloromethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
(cis) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Methyl Isobutyl Ketone	ND	0.0076	EPA 8260D	9-18-23	9-18-23	
Toluene	ND	0.0076	EPA 8260D	9-18-23	9-18-23	

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-007-091523**					
Laboratory ID:	09-155-04					
(trans) 1,3-Dichloropropene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1,2-Trichloroethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Tetrachloroethene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,3-Dichloropropane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
2-Hexanone	ND	0.0076	EPA 8260D	9-18-23	9-18-23	
Dibromochloromethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromoethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Chlorobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1,1,2-Tetrachloroethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Ethylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
m,p-Xylene	ND	0.0030	EPA 8260D	9-18-23	9-18-23	
o-Xylene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Styrene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Bromoform	ND	0.0076	EPA 8260D	9-18-23	9-18-23	
Isopropylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Bromobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,1,2,2-Tetrachloroethane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
n-Propylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
2-Chlorotoluene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
4-Chlorotoluene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,3,5-Trimethylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
tert-Butylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trimethylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
sec-Butylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,3-Dichlorobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
p-Isopropyltoluene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,4-Dichlorobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2-Dichlorobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
n-Butylbenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromo-3-chloropropane	ND	0.0076	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trichlorobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Hexachlorobutadiene	ND	0.0076	EPA 8260D	9-18-23	9-18-23	
Naphthalene	ND	0.0076	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichlorobenzene	ND	0.0015	EPA 8260D	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-130*				
Toluene-d8	*99*	*78-128*				
4-Bromofluorobenzene	*93*	*71-130*				

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-008-091523**					
Laboratory ID:	09-155-05					
Dichlorodifluoromethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Chloromethane	ND	0.0086	EPA 8260D	9-18-23	9-18-23	
Vinyl Chloride	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Bromomethane	ND	0.011	EPA 8260D	9-18-23	9-18-23	
Chloroethane	ND	0.0086	EPA 8260D	9-18-23	9-18-23	
Trichlorofluoromethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Acetone	0.35	0.086	EPA 8260D	9-18-23	9-18-23	Y
Iodomethane	ND	0.0086	EPA 8260D	9-18-23	9-18-23	
Carbon Disulfide	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Methylene Chloride	ND	0.0086	EPA 8260D	9-18-23	9-18-23	
(trans) 1,2-Dichloroethene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Methyl t-Butyl Ether	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Vinyl Acetate	ND	0.0086	EPA 8260D	9-18-23	9-18-23	
2,2-Dichloropropane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
(cis) 1,2-Dichloroethene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
2-Butanone	0.026	0.017	EPA 8260D	9-18-23	9-18-23	
Bromochloromethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Chloroform	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,1,1-Trichloroethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Carbon Tetrachloride	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloropropene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Benzene	0.0023	0.0017	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloroethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Trichloroethene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloropropane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Dibromomethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Bromodichloromethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
(cis) 1,3-Dichloropropene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Methyl Isobutyl Ketone	ND	0.0086	EPA 8260D	9-18-23	9-18-23	
Toluene	ND	0.0086	EPA 8260D	9-18-23	9-18-23	

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Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-008-091523**					
Laboratory ID:	09-155-05					
(trans) 1,3-Dichloropropene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,1,2-Trichloroethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Tetrachloroethene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,3-Dichloropropane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
2-Hexanone	ND	0.0086	EPA 8260D	9-18-23	9-18-23	
Dibromochloromethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromoethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Chlorobenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,1,1,2-Tetrachloroethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Ethylbenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
m,p-Xylene	ND	0.0034	EPA 8260D	9-18-23	9-18-23	
o-Xylene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Styrene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Bromoform	ND	0.0086	EPA 8260D	9-18-23	9-18-23	
Isopropylbenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Bromobenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,1,2,2-Tetrachloroethane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichloropropane	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
n-Propylbenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
2-Chlorotoluene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
4-Chlorotoluene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,3,5-Trimethylbenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
tert-Butylbenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trimethylbenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
sec-Butylbenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,3-Dichlorobenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
p-Isopropyltoluene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,4-Dichlorobenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,2-Dichlorobenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
n-Butylbenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromo-3-chloropropane	ND	0.0086	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trichlorobenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Hexachlorobutadiene	ND	0.0086	EPA 8260D	9-18-23	9-18-23	
Naphthalene	ND	0.0086	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichlorobenzene	ND	0.0017	EPA 8260D	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-130*				
Toluene-d8	*96*	*78-128*				
4-Bromofluorobenzene	*97*	*71-130*				

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Chloromethane	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Bromomethane	ND	0.0064	EPA 8260D	9-18-23	9-18-23	
Chloroethane	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Acetone	ND	0.050	EPA 8260D	9-18-23	9-18-23	
Iodomethane	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Carbon Disulfide	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Methylene Chloride	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Vinyl Acetate	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
2-Butanone	ND	0.010	EPA 8260D	9-18-23	9-18-23	
Bromochloromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Chloroform	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Benzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Trichloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Dibromomethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Toluene	ND	0.0050	EPA 8260D	9-18-23	9-18-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
2-Hexanone	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Chlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Ethylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
m,p-Xylene	ND	0.0020	EPA 8260D	9-18-23	9-18-23	
o-Xylene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Styrene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Bromoform	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Isopropylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Bromobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
n-Propylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
tert-Butylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
sec-Butylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
n-Butylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Naphthalene	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-130*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0918S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0539**	**0.0560**	0.0500	0.0500	108	112	30-160	4	26	
Chloromethane	**0.0474**	**0.0485**	0.0500	0.0500	95	97	59-131	2	26	
Vinyl Chloride	**0.0502**	**0.0526**	0.0500	0.0500	100	105	68-136	5	23	
Bromomethane	**0.0391**	**0.0478**	0.0500	0.0500	78	96	48-155	20	32	
Chloroethane	**0.0498**	**0.0530**	0.0500	0.0500	100	106	67-141	6	16	
Trichlorofluoromethane	**0.0494**	**0.0533**	0.0500	0.0500	99	107	76-127	8	19	
1,1-Dichloroethene	**0.0514**	**0.0539**	0.0500	0.0500	103	108	75-129	5	19	
Acetone	**0.0629**	**0.0583**	0.0500	0.0500	126	117	49-158	8	37	
Iodomethane	**0.0489**	**0.0525**	0.0500	0.0500	98	105	37-140	7	27	
Carbon Disulfide	**0.0490**	**0.0497**	0.0500	0.0500	98	99	41-143	1	19	
Methylene Chloride	**0.0446**	**0.0477**	0.0500	0.0500	89	95	60-124	7	18	
(trans) 1,2-Dichloroethene	**0.0470**	**0.0515**	0.0500	0.0500	94	103	79-133	9	15	
Methyl t-Butyl Ether	**0.0498**	**0.0520**	0.0500	0.0500	100	104	73-125	4	17	
1,1-Dichloroethane	**0.0483**	**0.0526**	0.0500	0.0500	97	105	79-125	9	17	
Vinyl Acetate	**0.0431**	**0.0488**	0.0500	0.0500	86	98	51-145	12	41	
2,2-Dichloropropane	**0.0488**	**0.0528**	0.0500	0.0500	98	106	79-126	8	18	
(cis) 1,2-Dichloroethene	**0.0482**	**0.0518**	0.0500	0.0500	96	104	75-131	7	15	
2-Butanone	**0.0521**	**0.0471**	0.0500	0.0500	104	94	54-145	10	32	
Bromochloromethane	**0.0508**	**0.0540**	0.0500	0.0500	102	108	80-126	6	15	
Chloroform	**0.0503**	**0.0525**	0.0500	0.0500	101	105	80-123	4	15	
1,1,1-Trichloroethane	**0.0505**	**0.0529**	0.0500	0.0500	101	106	78-124	5	21	
Carbon Tetrachloride	**0.0482**	**0.0524**	0.0500	0.0500	96	105	74-127	8	18	
1,1-Dichloropropene	**0.0487**	**0.0512**	0.0500	0.0500	97	102	80-123	5	15	
Benzene	**0.0484**	**0.0518**	0.0500	0.0500	97	104	80-122	7	18	
1,2-Dichloroethane	**0.0501**	**0.0539**	0.0500	0.0500	100	108	75-124	7	15	
Trichloroethene	**0.0502**	**0.0555**	0.0500	0.0500	100	111	80-129	10	18	
1,2-Dichloropropane	**0.0493**	**0.0536**	0.0500	0.0500	99	107	80-123	8	15	
Dibromomethane	**0.0536**	**0.0563**	0.0500	0.0500	107	113	80-123	5	15	
Bromodichloromethane	**0.0510**	**0.0577**	0.0500	0.0500	102	115	80-129	12	15	
(cis) 1,3-Dichloropropene	**0.0532**	**0.0581**	0.0500	0.0500	106	116	80-130	9	15	
Methyl Isobutyl Ketone	**0.0550**	**0.0542**	0.0500	0.0500	110	108	63-137	1	27	
Toluene	**0.0479**	**0.0529**	0.0500	0.0500	96	106	80-120	10	18	
(trans) 1,3-Dichloropropene	**0.0529**	**0.0559**	0.0500	0.0500	106	112	80-124	6	15	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0918S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0510**	**0.0531**	0.0500	0.0500	102	106	80-120	4	15	
Tetrachloroethene	**0.0514**	**0.0553**	0.0500	0.0500	103	111	77-126	7	15	
1,3-Dichloropropane	**0.0516**	**0.0541**	0.0500	0.0500	103	108	77-123	5	15	
2-Hexanone	**0.0564**	**0.0522**	0.0500	0.0500	113	104	53-137	8	29	
Dibromochloromethane	**0.0568**	**0.0588**	0.0500	0.0500	114	118	80-128	3	16	
1,2-Dibromoethane	**0.0537**	**0.0558**	0.0500	0.0500	107	112	80-122	4	20	
Chlorobenzene	**0.0506**	**0.0548**	0.0500	0.0500	101	110	80-120	8	18	
1,1,1,2-Tetrachloroethane	**0.0530**	**0.0574**	0.0500	0.0500	106	115	80-120	8	15	
Ethylbenzene	**0.0493**	**0.0536**	0.0500	0.0500	99	107	80-120	8	15	
m,p-Xylene	**0.103**	**0.112**	0.100	0.100	103	112	80-120	8	15	
o-Xylene	**0.0513**	**0.0545**	0.0500	0.0500	103	109	80-120	6	15	
Styrene	**0.0520**	**0.0557**	0.0500	0.0500	104	111	80-122	7	15	
Bromoform	**0.0585**	**0.0584**	0.0500	0.0500	117	117	78-126	0	15	
Isopropylbenzene	**0.0523**	**0.0565**	0.0500	0.0500	105	113	80-125	8	15	
Bromobenzene	**0.0498**	**0.0541**	0.0500	0.0500	100	108	79-124	8	15	
1,1,2,2-Tetrachloroethane	**0.0520**	**0.0522**	0.0500	0.0500	104	104	75-122	0	17	
1,2,3-Trichloropropane	**0.0503**	**0.0520**	0.0500	0.0500	101	104	72-125	3	20	
n-Propylbenzene	**0.0486**	**0.0539**	0.0500	0.0500	97	108	77-126	10	16	
2-Chlorotoluene	**0.0513**	**0.0560**	0.0500	0.0500	103	112	75-128	9	15	
4-Chlorotoluene	**0.0493**	**0.0552**	0.0500	0.0500	99	110	78-127	11	16	
1,3,5-Trimethylbenzene	**0.0488**	**0.0529**	0.0500	0.0500	98	106	77-128	8	15	
tert-Butylbenzene	**0.0492**	**0.0535**	0.0500	0.0500	98	107	73-130	8	20	
1,2,4-Trimethylbenzene	**0.0477**	**0.0530**	0.0500	0.0500	95	106	77-125	11	16	
sec-Butylbenzene	**0.0493**	**0.0542**	0.0500	0.0500	99	108	75-130	9	17	
1,3-Dichlorobenzene	**0.0493**	**0.0549**	0.0500	0.0500	99	110	78-123	11	17	
p-Isopropyltoluene	**0.0492**	**0.0545**	0.0500	0.0500	98	109	75-130	10	18	
1,4-Dichlorobenzene	**0.0495**	**0.0561**	0.0500	0.0500	99	112	77-121	13	17	
1,2-Dichlorobenzene	**0.0490**	**0.0543**	0.0500	0.0500	98	109	80-120	10	15	
n-Butylbenzene	**0.0487**	**0.0555**	0.0500	0.0500	97	111	76-131	13	20	
1,2-Dibromo-3-chloropropane	**0.0552**	**0.0541**	0.0500	0.0500	110	108	61-137	2	28	
1,2,4-Trichlorobenzene	**0.0493**	**0.0573**	0.0500	0.0500	99	115	77-127	15	17	
Hexachlorobutadiene	**0.0494**	**0.0566**	0.0500	0.0500	99	113	77-125	14	22	
Naphthalene	**0.0502**	**0.0540**	0.0500	0.0500	100	108	68-129	7	19	
1,2,3-Trichlorobenzene	**0.0497**	**0.0572**	0.0500	0.0500	99	114	77-124	14	19	
Surrogate:										
Dibromofluoromethane					*97*	*96*	*75-130*			
Toluene-d8					*97*	*101*	*78-128*			
4-Bromofluorobenzene					*102*	*104*	*71-130*			

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
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Matrix: Solid
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-009-091523**					
Laboratory ID:	09-155-06					
Dichlorodifluoromethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Chloromethane	ND	0.0061	EPA 8260D	9-18-23	9-18-23	
Vinyl Chloride	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Bromomethane	ND	0.0078	EPA 8260D	9-18-23	9-18-23	
Chloroethane	ND	0.0061	EPA 8260D	9-18-23	9-18-23	
Trichlorofluoromethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Acetone	ND	0.012	EPA 8260D	9-18-23	9-18-23	
Iodomethane	ND	0.0061	EPA 8260D	9-18-23	9-18-23	
Carbon Disulfide	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Methylene Chloride	0.0063	0.0061	EPA 8260D	9-18-23	9-18-23	H
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Vinyl Acetate	ND	0.0061	EPA 8260D	9-18-23	9-18-23	
2,2-Dichloropropane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
2-Butanone	ND	0.0061	EPA 8260D	9-18-23	9-18-23	
Bromochloromethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Chloroform	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Carbon Tetrachloride	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloropropene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Benzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloroethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Trichloroethene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloropropane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Dibromomethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Bromodichloromethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
2-Chloroethyl Vinyl Ether	ND	0.016	EPA 8260D	9-18-23	9-18-23	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Methyl Isobutyl Ketone	ND	0.0061	EPA 8260D	9-18-23	9-18-23	
Toluene	ND	0.0061	EPA 8260D	9-18-23	9-18-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-009-091523**					
Laboratory ID:	09-155-06					
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,1,2-Trichloroethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Tetrachloroethene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,3-Dichloropropane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
2-Hexanone	ND	0.0061	EPA 8260D	9-18-23	9-18-23	
Dibromochloromethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromoethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Chlorobenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Ethylbenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
m,p-Xylene	ND	0.0024	EPA 8260D	9-18-23	9-18-23	
o-Xylene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Styrene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Bromoform	ND	0.0061	EPA 8260D	9-18-23	9-18-23	
Isopropylbenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Bromobenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
n-Propylbenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
2-Chlorotoluene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
4-Chlorotoluene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
tert-Butylbenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
sec-Butylbenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
p-Isopropyltoluene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
n-Butylbenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromo-3-chloropropane	ND	0.0061	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Hexachlorobutadiene	ND	0.0061	EPA 8260D	9-18-23	9-18-23	
Naphthalene	ND	0.0061	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260D	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*75-130*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*100*	*71-130*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Solid
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Chloromethane	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Vinyl Chloride	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Bromomethane	ND	0.0064	EPA 8260D	9-18-23	9-18-23	
Chloroethane	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Trichlorofluoromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Acetone	ND	0.010	EPA 8260D	9-18-23	9-18-23	
Iodomethane	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Carbon Disulfide	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Methylene Chloride	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Vinyl Acetate	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
2,2-Dichloropropane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
2-Butanone	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Bromochloromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Chloroform	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Carbon Tetrachloride	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloropropene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Benzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Trichloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloropropane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Dibromomethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Bromodichloromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
2-Chloroethyl Vinyl Ether	ND	0.013	EPA 8260D	9-18-23	9-18-23	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Toluene	ND	0.0050	EPA 8260D	9-18-23	9-18-23	

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918S1					
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1,2-Trichloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Tetrachloroethene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,3-Dichloropropane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
2-Hexanone	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Dibromochloromethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromoethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Chlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Ethylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
m,p-Xylene	ND	0.0020	EPA 8260D	9-18-23	9-18-23	
o-Xylene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Styrene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Bromoform	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Isopropylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Bromobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
n-Propylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
2-Chlorotoluene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
4-Chlorotoluene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
tert-Butylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
sec-Butylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
p-Isopropyltoluene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
n-Butylbenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Hexachlorobutadiene	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
Naphthalene	ND	0.0050	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260D	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-130*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Solid
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0918S1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**0.0539**	**0.0560**	0.0500	0.0500	108	112	30-160	4	26	
Chloromethane	**0.0474**	**0.0485**	0.0500	0.0500	95	97	59-131	2	26	
Vinyl Chloride	**0.0502**	**0.0526**	0.0500	0.0500	100	105	68-136	5	23	
Bromomethane	**0.0391**	**0.0478**	0.0500	0.0500	78	96	48-155	20	32	
Chloroethane	**0.0498**	**0.0530**	0.0500	0.0500	100	106	67-141	6	16	
Trichlorofluoromethane	**0.0494**	**0.0533**	0.0500	0.0500	99	107	76-127	8	19	
1,1-Dichloroethene	**0.0514**	**0.0539**	0.0500	0.0500	103	108	75-129	5	19	
Acetone	**0.0629**	**0.0583**	0.0500	0.0500	126	117	49-158	8	37	
Iodomethane	**0.0489**	**0.0525**	0.0500	0.0500	98	105	37-140	7	27	
Carbon Disulfide	**0.0490**	**0.0497**	0.0500	0.0500	98	99	41-143	1	19	
Methylene Chloride	**0.0446**	**0.0477**	0.0500	0.0500	89	95	60-124	7	18	
(trans) 1,2-Dichloroethene	**0.0470**	**0.0515**	0.0500	0.0500	94	103	79-133	9	15	
Methyl t-Butyl Ether	**0.0498**	**0.0520**	0.0500	0.0500	100	104	73-125	4	17	
1,1-Dichloroethane	**0.0483**	**0.0526**	0.0500	0.0500	97	105	79-125	9	17	
Vinyl Acetate	**0.0431**	**0.0488**	0.0500	0.0500	86	98	51-145	12	41	
2,2-Dichloropropane	**0.0488**	**0.0528**	0.0500	0.0500	98	106	79-126	8	18	
(cis) 1,2-Dichloroethene	**0.0482**	**0.0518**	0.0500	0.0500	96	104	75-131	7	15	
2-Butanone	**0.0521**	**0.0471**	0.0500	0.0500	104	94	54-145	10	32	
Bromochloromethane	**0.0508**	**0.0540**	0.0500	0.0500	102	108	80-126	6	15	
Chloroform	**0.0503**	**0.0525**	0.0500	0.0500	101	105	80-123	4	15	
1,1,1-Trichloroethane	**0.0505**	**0.0529**	0.0500	0.0500	101	106	78-124	5	21	
Carbon Tetrachloride	**0.0482**	**0.0524**	0.0500	0.0500	96	105	74-127	8	18	
1,1-Dichloropropene	**0.0487**	**0.0512**	0.0500	0.0500	97	102	80-123	5	15	
Benzene	**0.0484**	**0.0518**	0.0500	0.0500	97	104	80-122	7	18	
1,2-Dichloroethane	**0.0501**	**0.0539**	0.0500	0.0500	100	108	75-124	7	15	
Trichloroethene	**0.0502**	**0.0555**	0.0500	0.0500	100	111	80-129	10	18	
1,2-Dichloropropane	**0.0493**	**0.0536**	0.0500	0.0500	99	107	80-123	8	15	
Dibromomethane	**0.0536**	**0.0563**	0.0500	0.0500	107	113	80-123	5	15	
Bromodichloromethane	**0.0510**	**0.0577**	0.0500	0.0500	102	115	80-129	12	15	
(cis) 1,3-Dichloropropene	**0.0532**	**0.0581**	0.0500	0.0500	106	116	80-130	9	15	
Methyl Isobutyl Ketone	**0.0550**	**0.0542**	0.0500	0.0500	110	108	63-137	1	27	
Toluene	**0.0479**	**0.0529**	0.0500	0.0500	96	106	80-120	10	18	
(trans) 1,3-Dichloropropene	**0.0529**	**0.0559**	0.0500	0.0500	106	112	80-124	6	15	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0918S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**0.0510**	**0.0531**	0.0500	0.0500	102	106	80-120	4	15	
Tetrachloroethene	**0.0514**	**0.0553**	0.0500	0.0500	103	111	77-126	7	15	
1,3-Dichloropropane	**0.0516**	**0.0541**	0.0500	0.0500	103	108	77-123	5	15	
2-Hexanone	**0.0564**	**0.0522**	0.0500	0.0500	113	104	53-137	8	29	
Dibromochloromethane	**0.0568**	**0.0588**	0.0500	0.0500	114	118	80-128	3	16	
1,2-Dibromoethane	**0.0537**	**0.0558**	0.0500	0.0500	107	112	80-122	4	20	
Chlorobenzene	**0.0506**	**0.0548**	0.0500	0.0500	101	110	80-120	8	18	
1,1,1,2-Tetrachloroethane	**0.0530**	**0.0574**	0.0500	0.0500	106	115	80-120	8	15	
Ethylbenzene	**0.0493**	**0.0536**	0.0500	0.0500	99	107	80-120	8	15	
m,p-Xylene	**0.103**	**0.112**	0.100	0.100	103	112	80-120	8	15	
o-Xylene	**0.0513**	**0.0545**	0.0500	0.0500	103	109	80-120	6	15	
Styrene	**0.0520**	**0.0557**	0.0500	0.0500	104	111	80-122	7	15	
Bromoform	**0.0585**	**0.0584**	0.0500	0.0500	117	117	78-126	0	15	
Isopropylbenzene	**0.0523**	**0.0565**	0.0500	0.0500	105	113	80-125	8	15	
Bromobenzene	**0.0498**	**0.0541**	0.0500	0.0500	100	108	79-124	8	15	
1,1,2,2-Tetrachloroethane	**0.0520**	**0.0522**	0.0500	0.0500	104	104	75-122	0	17	
1,2,3-Trichloropropane	**0.0503**	**0.0520**	0.0500	0.0500	101	104	72-125	3	20	
n-Propylbenzene	**0.0486**	**0.0539**	0.0500	0.0500	97	108	77-126	10	16	
2-Chlorotoluene	**0.0513**	**0.0560**	0.0500	0.0500	103	112	75-128	9	15	
4-Chlorotoluene	**0.0493**	**0.0552**	0.0500	0.0500	99	110	78-127	11	16	
1,3,5-Trimethylbenzene	**0.0488**	**0.0529**	0.0500	0.0500	98	106	77-128	8	15	
tert-Butylbenzene	**0.0492**	**0.0535**	0.0500	0.0500	98	107	73-130	8	20	
1,2,4-Trimethylbenzene	**0.0477**	**0.0530**	0.0500	0.0500	95	106	77-125	11	16	
sec-Butylbenzene	**0.0493**	**0.0542**	0.0500	0.0500	99	108	75-130	9	17	
1,3-Dichlorobenzene	**0.0493**	**0.0549**	0.0500	0.0500	99	110	78-123	11	17	
p-Isopropyltoluene	**0.0492**	**0.0545**	0.0500	0.0500	98	109	75-130	10	18	
1,4-Dichlorobenzene	**0.0495**	**0.0561**	0.0500	0.0500	99	112	77-121	13	17	
1,2-Dichlorobenzene	**0.0490**	**0.0543**	0.0500	0.0500	98	109	80-120	10	15	
n-Butylbenzene	**0.0487**	**0.0555**	0.0500	0.0500	97	111	76-131	13	20	
1,2-Dibromo-3-chloropropane	**0.0552**	**0.0541**	0.0500	0.0500	110	108	61-137	2	28	
1,2,4-Trichlorobenzene	**0.0493**	**0.0573**	0.0500	0.0500	99	115	77-127	15	17	
Hexachlorobutadiene	**0.0494**	**0.0566**	0.0500	0.0500	99	113	77-125	14	22	
Naphthalene	**0.0502**	**0.0540**	0.0500	0.0500	100	108	68-129	7	19	
1,2,3-Trichlorobenzene	**0.0497**	**0.0572**	0.0500	0.0500	99	114	77-124	14	19	
Surrogate:										
Dibromofluoromethane					*97*	*96*	*75-130*			
Toluene-d8					*97*	*101*	*78-128*			
4-Bromofluorobenzene					*102*	*104*	*71-130*			

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-011-091623**					
Laboratory ID:	09-155-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Chloromethane	ND	1.0	EPA 8260D	9-18-23	9-18-23	
Vinyl Chloride	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Bromomethane	ND	1.0	EPA 8260D	9-18-23	9-18-23	
Chloroethane	ND	1.0	EPA 8260D	9-18-23	9-18-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Acetone	7.0	6.4	EPA 8260D	9-18-23	9-18-23	Y
Iodomethane	ND	10	EPA 8260D	9-18-23	9-18-23	
Carbon Disulfide	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Methylene Chloride	ND	1.0	EPA 8260D	9-18-23	9-18-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Vinyl Acetate	ND	1.0	EPA 8260D	9-18-23	9-18-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
2-Butanone	ND	5.0	EPA 8260D	9-18-23	9-18-23	
Bromochloromethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Chloroform	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Benzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Trichloroethene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Dibromomethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Bromodichloromethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	9-18-23	9-18-23	
Toluene	ND	1.0	EPA 8260D	9-18-23	9-18-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-18-23	9-18-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-011-091623**					
Laboratory ID:	09-155-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
2-Hexanone	ND	2.0	EPA 8260D	9-18-23	9-18-23	
Dibromochloromethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Chlorobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Ethylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
m,p-Xylene	ND	0.40	EPA 8260D	9-18-23	9-18-23	
o-Xylene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Styrene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Bromoform	ND	1.0	EPA 8260D	9-18-23	9-18-23	
Isopropylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Bromobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
n-Propylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,4-Dichlorobenzene	0.31	0.20	EPA 8260D	9-18-23	9-18-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
n-Butylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	9-18-23	9-18-23	
Naphthalene	ND	1.0	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*75-127*				
Toluene-d8	*117*	*80-127*				
4-Bromofluorobenzene	*80*	*78-125*				

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Chloromethane	ND	1.0	EPA 8260D	9-18-23	9-18-23	
Vinyl Chloride	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Bromomethane	ND	1.0	EPA 8260D	9-18-23	9-18-23	
Chloroethane	ND	1.0	EPA 8260D	9-18-23	9-18-23	
Trichlorofluoromethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Acetone	ND	6.4	EPA 8260D	9-18-23	9-18-23	
Iodomethane	ND	10	EPA 8260D	9-18-23	9-18-23	
Carbon Disulfide	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Methylene Chloride	ND	1.0	EPA 8260D	9-18-23	9-18-23	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Methyl t-Butyl Ether	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloroethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Vinyl Acetate	ND	1.0	EPA 8260D	9-18-23	9-18-23	
2,2-Dichloropropane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
2-Butanone	ND	5.0	EPA 8260D	9-18-23	9-18-23	
Bromochloromethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Chloroform	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,1,1-Trichloroethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Carbon Tetrachloride	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,1-Dichloropropene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Benzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloroethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Trichloroethene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2-Dichloropropane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Dibromomethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Bromodichloromethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260D	9-18-23	9-18-23	
Toluene	ND	1.0	EPA 8260D	9-18-23	9-18-23	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260D	9-18-23	9-18-23	

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Tetrachloroethene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,3-Dichloropropane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
2-Hexanone	ND	2.0	EPA 8260D	9-18-23	9-18-23	
Dibromochloromethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromoethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Chlorobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Ethylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
m,p-Xylene	ND	0.40	EPA 8260D	9-18-23	9-18-23	
o-Xylene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Styrene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Bromoform	ND	1.0	EPA 8260D	9-18-23	9-18-23	
Isopropylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Bromobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichloropropane	ND	0.20	EPA 8260D	9-18-23	9-18-23	
n-Propylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
2-Chlorotoluene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
4-Chlorotoluene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
tert-Butylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
sec-Butylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,3-Dichlorobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
p-Isopropyltoluene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,4-Dichlorobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2-Dichlorobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
n-Butylbenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260D	9-18-23	9-18-23	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Hexachlorobutadiene	ND	1.0	EPA 8260D	9-18-23	9-18-23	
Naphthalene	ND	1.0	EPA 8260D	9-18-23	9-18-23	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260D	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*118*	*80-127*				
4-Bromofluorobenzene	*83*	*78-125*				

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0918W1									
	SB	SBD	SB	SBD	SB	SBD				
Dichlorodifluoromethane	**9.93**	**10.0**	10.0	10.0	99	100	34-166	1	21	
Chloromethane	**9.77**	**9.71**	10.0	10.0	98	97	63-138	1	18	
Vinyl Chloride	**10.5**	**10.2**	10.0	10.0	105	102	71-135	3	20	
Bromomethane	**10.1**	**10.5**	10.0	10.0	101	105	20-151	4	36	
Chloroethane	**9.68**	**9.23**	10.0	10.0	97	92	76-125	5	20	
Trichlorofluoromethane	**9.37**	**9.35**	10.0	10.0	94	94	75-131	0	19	
1,1-Dichloroethene	**9.90**	**10.0**	10.0	10.0	99	100	78-125	1	19	
Acetone	**7.77**	**7.89**	10.0	10.0	78	79	76-125	2	18	
Iodomethane	**4.91**	**6.20**	10.0	10.0	49	62	10-155	23	40	
Carbon Disulfide	**9.08**	**8.89**	10.0	10.0	91	89	58-129	2	17	
Methylene Chloride	**8.88**	**8.45**	10.0	10.0	89	85	80-120	5	15	
(trans) 1,2-Dichloroethene	**10.0**	**9.81**	10.0	10.0	100	98	80-125	2	17	
Methyl t-Butyl Ether	**8.98**	**8.77**	10.0	10.0	90	88	80-122	2	15	
1,1-Dichloroethane	**9.78**	**9.54**	10.0	10.0	98	95	80-125	2	17	
Vinyl Acetate	**8.74**	**8.65**	10.0	10.0	87	87	80-131	1	15	
2,2-Dichloropropane	**11.6**	**11.6**	10.0	10.0	116	116	80-146	0	21	
(cis) 1,2-Dichloroethene	**10.2**	**9.83**	10.0	10.0	102	98	80-129	4	17	
2-Butanone	**8.00**	**8.21**	10.0	10.0	80	82	80-129	3	16	
Bromochloromethane	**9.82**	**9.88**	10.0	10.0	98	99	80-125	1	18	
Chloroform	**9.70**	**9.50**	10.0	10.0	97	95	80-123	2	16	
1,1,1-Trichloroethane	**9.66**	**9.47**	10.0	10.0	97	95	80-123	2	18	
Carbon Tetrachloride	**9.73**	**9.73**	10.0	10.0	97	97	80-126	0	17	
1,1-Dichloropropene	**9.39**	**9.24**	10.0	10.0	94	92	80-126	2	18	
Benzene	**9.58**	**9.39**	10.0	10.0	96	94	80-121	2	16	
1,2-Dichloroethane	**9.72**	**9.23**	10.0	10.0	97	92	80-124	5	15	
Trichloroethene	**10.3**	**10.2**	10.0	10.0	103	102	80-122	1	18	
1,2-Dichloropropane	**10.6**	**10.3**	10.0	10.0	106	103	80-123	3	15	
Dibromomethane	**9.68**	**9.17**	10.0	10.0	97	92	80-123	5	15	
Bromodichloromethane	**11.0**	**10.6**	10.0	10.0	110	106	80-125	4	15	
(cis) 1,3-Dichloropropene	**11.3**	**10.9**	10.0	10.0	113	109	80-129	4	15	
Methyl Isobutyl Ketone	**9.11**	**8.98**	10.0	10.0	91	90	80-124	1	15	
Toluene	**9.63**	**9.18**	10.0	10.0	96	92	80-120	5	18	
(trans) 1,3-Dichloropropene	**10.5**	**9.93**	10.0	10.0	105	99	80-134	6	17	

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0918W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1,2-Trichloroethane	**9.91**	**9.63**	10.0	10.0	99	96	77-126	3	20	
Tetrachloroethene	**11.4**	**10.8**	10.0	10.0	114	108	80-124	5	18	
1,3-Dichloropropane	**9.97**	**10.0**	10.0	10.0	100	100	80-120	0	15	
2-Hexanone	**9.26**	**9.40**	10.0	10.0	93	94	80-130	2	16	
Dibromochloromethane	**10.9**	**10.6**	10.0	10.0	109	106	80-128	3	15	
1,2-Dibromoethane	**10.8**	**10.1**	10.0	10.0	108	101	80-127	7	15	
Chlorobenzene	**10.7**	**10.3**	10.0	10.0	107	103	80-120	4	17	
1,1,1,2-Tetrachloroethane	**11.3**	**11.4**	10.0	10.0	113	114	80-125	1	17	
Ethylbenzene	**10.8**	**10.6**	10.0	10.0	108	106	80-125	2	18	
m,p-Xylene	**21.9**	**21.1**	20.0	20.0	110	106	80-127	4	18	
o-Xylene	**10.7**	**10.5**	10.0	10.0	107	105	80-126	2	18	
Styrene	**11.1**	**11.0**	10.0	10.0	111	110	80-130	1	17	
Bromoform	**11.1**	**11.0**	10.0	10.0	111	110	80-130	1	15	
Isopropylbenzene	**11.4**	**10.9**	10.0	10.0	114	109	80-129	4	18	
Bromobenzene	**10.5**	**10.4**	10.0	10.0	105	104	76-128	1	16	
1,1,2,2-Tetrachloroethane	**10.4**	**10.3**	10.0	10.0	104	103	74-130	1	15	
1,2,3-Trichloropropane	**9.86**	**9.93**	10.0	10.0	99	99	71-129	1	25	
n-Propylbenzene	**11.5**	**11.3**	10.0	10.0	115	113	80-129	2	19	
2-Chlorotoluene	**11.4**	**11.5**	10.0	10.0	114	115	80-128	1	18	
4-Chlorotoluene	**11.2**	**11.1**	10.0	10.0	112	111	80-130	1	19	
1,3,5-Trimethylbenzene	**11.0**	**10.8**	10.0	10.0	110	108	80-131	2	18	
tert-Butylbenzene	**11.9**	**11.7**	10.0	10.0	119	117	80-130	2	18	
1,2,4-Trimethylbenzene	**11.5**	**10.9**	10.0	10.0	115	109	80-130	5	18	
sec-Butylbenzene	**11.4**	**11.3**	10.0	10.0	114	113	80-130	1	18	
1,3-Dichlorobenzene	**11.0**	**10.7**	10.0	10.0	110	107	80-126	3	17	
p-Isopropyltoluene	**11.4**	**11.3**	10.0	10.0	114	113	80-132	1	18	
1,4-Dichlorobenzene	**10.7**	**10.5**	10.0	10.0	107	105	80-121	2	17	
1,2-Dichlorobenzene	**10.3**	**10.3**	10.0	10.0	103	103	79-125	0	15	
n-Butylbenzene	**12.3**	**12.1**	10.0	10.0	123	121	80-138	2	19	
1,2-Dibromo-3-chloropropane	**10.9**	**11.3**	10.0	10.0	109	113	73-133	4	15	
1,2,4-Trichlorobenzene	**9.64**	**9.74**	10.0	10.0	96	97	80-139	1	18	
Hexachlorobutadiene	**9.13**	**9.31**	10.0	10.0	91	93	80-151	2	18	
Naphthalene	**9.25**	**9.86**	10.0	10.0	93	99	68-144	6	25	
1,2,3-Trichlorobenzene	**9.13**	**9.63**	10.0	10.0	91	96	75-146	5	28	
Surrogate:										
Dibromofluoromethane					*100*	*100*	*75-127*			
Toluene-d8					*119*	*116*	*80-127*			
4-Bromofluorobenzene					*87*	*88*	*78-125*			

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-004-091523**					
Laboratory ID:	09-155-01					
n-Nitrosodimethylamine	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Pyridine	**ND**	0.37	EPA 8270E	9-19-23	9-20-23	
Phenol	**0.054**	0.037	EPA 8270E	9-19-23	9-20-23	
Aniline	**0.41**	0.18	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroethyl)ether	**ND**	0.048	EPA 8270E	9-19-23	9-20-23	
2-Chlorophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
1,3-Dichlorobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
1,4-Dichlorobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Benzyl alcohol	**ND**	0.074	EPA 8270E	9-19-23	9-20-23	
1,2-Dichlorobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2-Methylphenol (o-Cresol)	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroisopropyl)ether	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
n-Nitroso-di-n-propylamine	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Hexachloroethane	**ND**	0.086	EPA 8270E	9-19-23	9-20-23	
Nitrobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Isophorone	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2-Nitrophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,4-Dimethylphenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroethoxy)methane	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,4-Dichlorophenol	**ND**	0.074	EPA 8270E	9-19-23	9-20-23	
1,2,4-Trichlorobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Naphthalene	**0.0081**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
4-Chloroaniline	**ND**	0.18	EPA 8270E	9-19-23	9-20-23	
Hexachlorobutadiene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
4-Chloro-3-methylphenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2-Methylnaphthalene	**0.020**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
1-Methylnaphthalene	**0.013**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Hexachlorocyclopentadiene	**ND**	2.5	EPA 8270E	9-19-23	9-20-23	
2,4,6-Trichlorophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,3-Dichloroaniline	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,4,5-Trichlorophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2-Chloronaphthalene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2-Nitroaniline	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
1,4-Dinitrobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Dimethylphthalate	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
1,3-Dinitrobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,6-Dinitrotoluene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
1,2-Dinitrobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Acenaphthylene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
3-Nitroaniline	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-004-091523**					
Laboratory ID:	09-155-01					
2,4-Dinitrophenol	**ND**	0.43	EPA 8270E	9-19-23	9-20-23	
Acenaphthene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
4-Nitrophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,4-Dinitrotoluene	**ND**	0.048	EPA 8270E	9-19-23	9-20-23	
Dibenzofuran	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Diethylphthalate	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
4-Chlorophenyl-phenylether	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
4-Nitroaniline	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Fluorene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
4,6-Dinitro-2-methylphenol	**ND**	0.60	EPA 8270E	9-19-23	9-20-23	
n-Nitrosodiphenylamine	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
1,2-Diphenylhydrazine	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
4-Bromophenyl-phenylether	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Hexachlorobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Pentachlorophenol	**ND**	0.074	EPA 8270E	9-19-23	9-20-23	
Phenanthrene	**0.055**	0.037	EPA 8270E	9-19-23	9-20-23	
Anthracene	**0.0097**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Carbazole	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Di-n-butylphthalate	**ND**	0.18	EPA 8270E	9-19-23	9-20-23	
Fluoranthene	**0.049**	0.037	EPA 8270E	9-19-23	9-20-23	
Pyrene	**0.067**	0.037	EPA 8270E	9-19-23	9-20-23	
Butylbenzylphthalate	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
bis-2-Ethylhexyladipate	**ND**	0.24	EPA 8270E	9-19-23	9-20-23	
3,3'-Dichlorobenzidine	**ND**	0.18	EPA 8270E	9-19-23	9-20-23	
Benzo[a]anthracene	**0.027**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Chrysene	**0.038**	0.037	EPA 8270E	9-19-23	9-20-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.24	EPA 8270E	9-19-23	9-20-23	
Di-n-octylphthalate	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Benzo[b]fluoranthene	**0.028**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo(j,k)fluoranthene	**0.0085**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[a]pyrene	**0.024**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Indeno[1,2,3-cd]pyrene	**0.016**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Dibenz[a,h]anthracene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[g,h,i]perylene	**0.017**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*59*	*11 - 111*				
Phenol-d6	*53*	*26 - 117*				
Nitrobenzene-d5	*62*	*31 - 111*				
2-Fluorobiphenyl	*71*	*38 - 109*				
2,4,6-Tribromophenol	*78*	*27 - 127*				
Terphenyl-d14	*72*	*37 - 116*				

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-005-091523**					
Laboratory ID:	09-155-02					
n-Nitrosodimethylamine	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Pyridine	**ND**	0.36	EPA 8270E	9-19-23	9-20-23	
Phenol	**0.32**	0.036	EPA 8270E	9-19-23	9-20-23	
Aniline	**2.2**	0.18	EPA 8270E	9-19-23	9-20-23	E
bis(2-Chloroethyl)ether	**0.39**	0.046	EPA 8270E	9-19-23	9-20-23	Y
2-Chlorophenol	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
1,3-Dichlorobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
1,4-Dichlorobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Benzyl alcohol	**ND**	0.071	EPA 8270E	9-19-23	9-20-23	
1,2-Dichlorobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
2-Methylphenol (o-Cresol)	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroisopropyl)ether	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
n-Nitroso-di-n-propylamine	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Hexachloroethane	**ND**	0.083	EPA 8270E	9-19-23	9-20-23	
Nitrobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Isophorone	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
2-Nitrophenol	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
2,4-Dimethylphenol	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroethoxy)methane	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
2,4-Dichlorophenol	**ND**	0.071	EPA 8270E	9-19-23	9-20-23	
1,2,4-Trichlorobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Naphthalene	**ND**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
4-Chloroaniline	**ND**	0.18	EPA 8270E	9-19-23	9-20-23	
Hexachlorobutadiene	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
4-Chloro-3-methylphenol	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
2-Methylnaphthalene	**ND**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
1-Methylnaphthalene	**ND**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
Hexachlorocyclopentadiene	**ND**	2.4	EPA 8270E	9-19-23	9-20-23	
2,4,6-Trichlorophenol	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
2,3-Dichloroaniline	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
2,4,5-Trichlorophenol	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
2-Chloronaphthalene	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
2-Nitroaniline	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
1,4-Dinitrobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Dimethylphthalate	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
1,3-Dinitrobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
2,6-Dinitrotoluene	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
1,2-Dinitrobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Acenaphthylene	**ND**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
3-Nitroaniline	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	

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Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-005-091523**					
Laboratory ID:	09-155-02					
2,4-Dinitrophenol	**ND**	0.42	EPA 8270E	9-19-23	9-20-23	
Acenaphthene	**ND**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
4-Nitrophenol	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
2,4-Dinitrotoluene	**ND**	0.047	EPA 8270E	9-19-23	9-20-23	
Dibenzofuran	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
2,3,5,6-Tetrachlorophenol	**0.041**	0.036	EPA 8270E	9-19-23	9-20-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Diethylphthalate	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
4-Chlorophenyl-phenylether	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
4-Nitroaniline	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Fluorene	**ND**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
4,6-Dinitro-2-methylphenol	**ND**	0.58	EPA 8270E	9-19-23	9-20-23	
n-Nitrosodiphenylamine	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
1,2-Diphenylhydrazine	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
4-Bromophenyl-phenylether	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Hexachlorobenzene	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Pentachlorophenol	**ND**	0.071	EPA 8270E	9-19-23	9-20-23	
Phenanthrene	**0.0091**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
Anthracene	**ND**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
Carbazole	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Di-n-butylphthalate	**ND**	0.18	EPA 8270E	9-19-23	9-20-23	
Fluoranthene	**0.011**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
Pyrene	**0.016**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
Butylbenzylphthalate	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
bis-2-Ethylhexyladipate	**ND**	0.23	EPA 8270E	9-19-23	9-20-23	
3,3'-Dichlorobenzidine	**ND**	0.18	EPA 8270E	9-19-23	9-20-23	
Benzo[a]anthracene	**0.0083**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
Chrysene	**0.011**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.24	EPA 8270E	9-19-23	9-20-23	
Di-n-octylphthalate	**ND**	0.036	EPA 8270E	9-19-23	9-20-23	
Benzo[b]fluoranthene	**0.011**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo(j,k)fluoranthene	**ND**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[a]pyrene	**0.0096**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
Dibenz[a,h]anthracene	**ND**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[g,h,i]perylene	**0.0079**	0.0071	EPA 8270E/SIM	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*63*	*11 - 111*				
Phenol-d6	*55*	*26 - 117*				
Nitrobenzene-d5	*58*	*31 - 111*				
2-Fluorobiphenyl	*69*	*38 - 109*				
2,4,6-Tribromophenol	*86*	*27 - 127*				
Terphenyl-d14	*70*	*37 - 116*				

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-006-091523**					
Laboratory ID:	09-155-03					
n-Nitrosodimethylamine	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Pyridine	**ND**	0.41	EPA 8270E	9-19-23	9-20-23	
Phenol	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Aniline	**ND**	0.20	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroethyl)ether	**0.13**	0.041	EPA 8270E	9-19-23	9-20-23	
2-Chlorophenol	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
1,3-Dichlorobenzene	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
1,4-Dichlorobenzene	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Benzyl alcohol	**ND**	0.081	EPA 8270E	9-19-23	9-20-23	
1,2-Dichlorobenzene	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2-Methylphenol (o-Cresol)	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroisopropyl)ether	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
n-Nitroso-di-n-propylamine	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Hexachloroethane	**ND**	0.094	EPA 8270E	9-19-23	9-20-23	
Nitrobenzene	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Isophorone	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2-Nitrophenol	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2,4-Dimethylphenol	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroethoxy)methane	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2,4-Dichlorophenol	**ND**	0.081	EPA 8270E	9-19-23	9-20-23	
1,2,4-Trichlorobenzene	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Naphthalene	**ND**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
4-Chloroaniline	**ND**	0.20	EPA 8270E	9-19-23	9-20-23	
Hexachlorobutadiene	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
4-Chloro-3-methylphenol	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2-Methylnaphthalene	**0.0094**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
1-Methylnaphthalene	**ND**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
Hexachlorocyclopentadiene	**ND**	2.7	EPA 8270E	9-19-23	9-20-23	
2,4,6-Trichlorophenol	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2,3-Dichloroaniline	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2,4,5-Trichlorophenol	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2-Chloronaphthalene	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2-Nitroaniline	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
1,4-Dinitrobenzene	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Dimethylphthalate	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
1,3-Dinitrobenzene	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2,6-Dinitrotoluene	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
1,2-Dinitrobenzene	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Acenaphthylene	**ND**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
3-Nitroaniline	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	

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Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-006-091523**					
Laboratory ID:	09-155-03					
2,4-Dinitrophenol	**ND**	0.48	EPA 8270E	9-19-23	9-20-23	
Acenaphthene	**ND**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
4-Nitrophenol	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2,4-Dinitrotoluene	**ND**	0.053	EPA 8270E	9-19-23	9-20-23	
Dibenzofuran	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Diethylphthalate	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
4-Chlorophenyl-phenylether	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
4-Nitroaniline	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Fluorene	**ND**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
4,6-Dinitro-2-methylphenol	**ND**	0.67	EPA 8270E	9-19-23	9-20-23	
n-Nitrosodiphenylamine	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
1,2-Diphenylhydrazine	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
4-Bromophenyl-phenylether	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Hexachlorobenzene	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Pentachlorophenol	**ND**	0.081	EPA 8270E	9-19-23	9-20-23	
Phenanthrene	**0.015**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
Anthracene	**ND**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
Carbazole	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Di-n-butylphthalate	**ND**	0.20	EPA 8270E	9-19-23	9-20-23	
Fluoranthene	**0.014**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
Pyrene	**0.023**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
Butylbenzylphthalate	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
bis-2-Ethylhexyladipate	**ND**	0.27	EPA 8270E	9-19-23	9-20-23	
3,3'-Dichlorobenzidine	**ND**	0.20	EPA 8270E	9-19-23	9-20-23	
Benzo[a]anthracene	**0.0091**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
Chrysene	**0.012**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.27	EPA 8270E	9-19-23	9-20-23	
Di-n-octylphthalate	**ND**	0.041	EPA 8270E	9-19-23	9-20-23	
Benzo[b]fluoranthene	**0.012**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo(j,k)fluoranthene	**ND**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[a]pyrene	**0.0094**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
Dibenz[a,h]anthracene	**ND**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[g,h,i]perylene	**ND**	0.0081	EPA 8270E/SIM	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*25*	*11 - 111*				
Phenol-d6	*20*	*26 - 117*				Q
Nitrobenzene-d5	*26*	*31 - 111*				Q
2-Fluorobiphenyl	*30*	*38 - 109*				Q
2,4,6-Tribromophenol	*33*	*27 - 127*				
Terphenyl-d14	*29*	*37 - 116*				Q

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-007-091523**					
Laboratory ID:	09-155-04					
n-Nitrosodimethylamine	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Pyridine	**ND**	0.37	EPA 8270E	9-19-23	9-20-23	
Phenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Aniline	**ND**	0.19	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroethyl)ether	**0.12**	0.048	EPA 8270E	9-19-23	9-20-23	Y
2-Chlorophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
1,3-Dichlorobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
1,4-Dichlorobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Benzyl alcohol	**ND**	0.074	EPA 8270E	9-19-23	9-20-23	
1,2-Dichlorobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2-Methylphenol (o-Cresol)	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroisopropyl)ether	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
n-Nitroso-di-n-propylamine	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Hexachloroethane	**ND**	0.086	EPA 8270E	9-19-23	9-20-23	
Nitrobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Isophorone	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2-Nitrophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,4-Dimethylphenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroethoxy)methane	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,4-Dichlorophenol	**ND**	0.074	EPA 8270E	9-19-23	9-20-23	
1,2,4-Trichlorobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Naphthalene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
4-Chloroaniline	**ND**	0.19	EPA 8270E	9-19-23	9-20-23	
Hexachlorobutadiene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
4-Chloro-3-methylphenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2-Methylnaphthalene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
1-Methylnaphthalene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Hexachlorocyclopentadiene	**ND**	2.5	EPA 8270E	9-19-23	9-20-23	
2,4,6-Trichlorophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,3-Dichloroaniline	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,4,5-Trichlorophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2-Chloronaphthalene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2-Nitroaniline	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
1,4-Dinitrobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Dimethylphthalate	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
1,3-Dinitrobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,6-Dinitrotoluene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
1,2-Dinitrobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Acenaphthylene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
3-Nitroaniline	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-007-091523**					
Laboratory ID:	09-155-04					
2,4-Dinitrophenol	**ND**	0.43	EPA 8270E	9-19-23	9-20-23	
Acenaphthene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
4-Nitrophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,4-Dinitrotoluene	**ND**	0.049	EPA 8270E	9-19-23	9-20-23	
Dibenzofuran	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Diethylphthalate	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
4-Chlorophenyl-phenylether	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
4-Nitroaniline	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Fluorene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
4,6-Dinitro-2-methylphenol	**ND**	0.61	EPA 8270E	9-19-23	9-20-23	
n-Nitrosodiphenylamine	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
1,2-Diphenylhydrazine	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
4-Bromophenyl-phenylether	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Hexachlorobenzene	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Pentachlorophenol	**ND**	0.074	EPA 8270E	9-19-23	9-20-23	
Phenanthrene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Anthracene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Carbazole	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Di-n-butylphthalate	**ND**	0.19	EPA 8270E	9-19-23	9-20-23	
Fluoranthene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Pyrene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Butylbenzylphthalate	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
bis-2-Ethylhexyladipate	**ND**	0.25	EPA 8270E	9-19-23	9-20-23	
3,3'-Dichlorobenzidine	**ND**	0.19	EPA 8270E	9-19-23	9-20-23	
Benzo[a]anthracene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Chrysene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.25	EPA 8270E	9-19-23	9-20-23	
Di-n-octylphthalate	**ND**	0.037	EPA 8270E	9-19-23	9-20-23	
Benzo[b]fluoranthene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo(j,k)fluoranthene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[a]pyrene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Dibenz[a,h]anthracene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[g,h,i]perylene	**ND**	0.0074	EPA 8270E/SIM	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*45*	*11 - 111*				
Phenol-d6	*37*	*26 - 117*				
Nitrobenzene-d5	*50*	*31 - 111*				
2-Fluorobiphenyl	*56*	*38 - 109*				
2,4,6-Tribromophenol	*61*	*27 - 127*				
Terphenyl-d14	*54*	*37 - 116*				

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-008-091523**					
Laboratory ID:	09-155-05					
n-Nitrosodimethylamine	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Pyridine	**ND**	0.38	EPA 8270E	9-19-23	9-20-23	
Phenol	**0.043**	0.038	EPA 8270E	9-19-23	9-20-23	
Aniline	**0.31**	0.19	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroethyl)ether	**0.44**	0.050	EPA 8270E	9-19-23	9-20-23	Y
2-Chlorophenol	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
1,3-Dichlorobenzene	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
1,4-Dichlorobenzene	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Benzyl alcohol	**ND**	0.076	EPA 8270E	9-19-23	9-20-23	
1,2-Dichlorobenzene	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2-Methylphenol (o-Cresol)	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroisopropyl)ether	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
n-Nitroso-di-n-propylamine	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Hexachloroethane	**ND**	0.089	EPA 8270E	9-19-23	9-20-23	
Nitrobenzene	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Isophorone	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2-Nitrophenol	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2,4-Dimethylphenol	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroethoxy)methane	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2,4-Dichlorophenol	**ND**	0.076	EPA 8270E	9-19-23	9-20-23	
1,2,4-Trichlorobenzene	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Naphthalene	**0.017**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
4-Chloroaniline	**ND**	0.19	EPA 8270E	9-19-23	9-20-23	
Hexachlorobutadiene	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
4-Chloro-3-methylphenol	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2-Methylnaphthalene	**0.028**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
1-Methylnaphthalene	**0.012**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
Hexachlorocyclopentadiene	**ND**	2.6	EPA 8270E	9-19-23	9-20-23	
2,4,6-Trichlorophenol	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2,3-Dichloroaniline	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2,4,5-Trichlorophenol	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2-Chloronaphthalene	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2-Nitroaniline	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
1,4-Dinitrobenzene	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Dimethylphthalate	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
1,3-Dinitrobenzene	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2,6-Dinitrotoluene	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
1,2-Dinitrobenzene	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Acenaphthylene	**ND**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
3-Nitroaniline	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	

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Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-008-091523**					
Laboratory ID:	09-155-05					
2,4-Dinitrophenol	**ND**	0.45	EPA 8270E	9-19-23	9-20-23	
Acenaphthene	**ND**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
4-Nitrophenol	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2,4-Dinitrotoluene	**ND**	0.050	EPA 8270E	9-19-23	9-20-23	
Dibenzofuran	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Diethylphthalate	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
4-Chlorophenyl-phenylether	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
4-Nitroaniline	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Fluorene	**ND**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
4,6-Dinitro-2-methylphenol	**ND**	0.63	EPA 8270E	9-19-23	9-20-23	
n-Nitrosodiphenylamine	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
1,2-Diphenylhydrazine	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
4-Bromophenyl-phenylether	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Hexachlorobenzene	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Pentachlorophenol	**ND**	0.076	EPA 8270E	9-19-23	9-20-23	
Phenanthrene	**0.0086**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
Anthracene	**ND**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
Carbazole	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Di-n-butylphthalate	**ND**	0.19	EPA 8270E	9-19-23	9-20-23	
Fluoranthene	**0.010**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
Pyrene	**0.016**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
Butylbenzylphthalate	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
bis-2-Ethylhexyladipate	**ND**	0.25	EPA 8270E	9-19-23	9-20-23	
3,3'-Dichlorobenzidine	**ND**	0.19	EPA 8270E	9-19-23	9-20-23	
Benzo[a]anthracene	**0.017**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
Chrysene	**0.044**	0.038	EPA 8270E	9-19-23	9-20-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.25	EPA 8270E	9-19-23	9-20-23	
Di-n-octylphthalate	**ND**	0.038	EPA 8270E	9-19-23	9-20-23	
Benzo[b]fluoranthene	**0.062**	0.038	EPA 8270E	9-19-23	9-20-23	
Benzo(j,k)fluoranthene	**0.015**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[a]pyrene	**0.053**	0.038	EPA 8270E	9-19-23	9-20-23	
Indeno[1,2,3-cd]pyrene	**0.032**	0.0076	EPA 8270E/SIM	9-19-23	9-20-23	
Dibenz[a,h]anthracene	**0.011**	0.0076	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[g,h,i]perylene	**0.043**	0.038	EPA 8270E	9-19-23	9-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*41*	*11 - 111*				
Phenol-d6	*34*	*26 - 117*				
Nitrobenzene-d5	*48*	*31 - 111*				
2-Fluorobiphenyl	*57*	*38 - 109*				
2,4,6-Tribromophenol	*63*	*27 - 127*				
Terphenyl-d14	*52*	*37 - 116*				

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919S2					
n-Nitrosodimethylamine	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Pyridine	**ND**	0.33	EPA 8270E	9-19-23	9-19-23	
Phenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Aniline	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
bis(2-Chloroethyl)ether	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2-Chlorophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
1,3-Dichlorobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
1,4-Dichlorobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Benzyl alcohol	**ND**	0.067	EPA 8270E	9-19-23	9-19-23	
1,2-Dichlorobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2-Methylphenol (o-Cresol)	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
bis(2-Chloroisopropyl)ether	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
n-Nitroso-di-n-propylamine	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Hexachloroethane	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Nitrobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Isophorone	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2-Nitrophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,4-Dimethylphenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
bis(2-Chloroethoxy)methane	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,4-Dichlorophenol	**ND**	0.067	EPA 8270E	9-19-23	9-19-23	
1,2,4-Trichlorobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Naphthalene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
4-Chloroaniline	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
Hexachlorobutadiene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
4-Chloro-3-methylphenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Hexachlorocyclopentadiene	**ND**	0.21	EPA 8270E	9-19-23	9-19-23	
2,4,6-Trichlorophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,3-Dichloroaniline	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,4,5-Trichlorophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2-Chloronaphthalene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2-Nitroaniline	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
1,4-Dinitrobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Dimethylphthalate	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
1,3-Dinitrobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,6-Dinitrotoluene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
1,2-Dinitrobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Acenaphthylene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
3-Nitroaniline	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919S2					
2,4-Dinitrophenol	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
Acenaphthene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
4-Nitrophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,4-Dinitrotoluene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Dibenzofuran	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Diethylphthalate	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
4-Chlorophenyl-phenylether	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
4-Nitroaniline	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Fluorene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
4,6-Dinitro-2-methylphenol	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
n-Nitrosodiphenylamine	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
1,2-Diphenylhydrazine	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
4-Bromophenyl-phenylether	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Hexachlorobenzene	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Pentachlorophenol	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
Phenanthrene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Anthracene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Carbazole	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Di-n-butylphthalate	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
Fluoranthene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Pyrene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Butylbenzylphthalate	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
3,3'-Dichlorobenzidine	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Chrysene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270E	9-19-23	9-19-23	
Di-n-octylphthalate	**ND**	0.033	EPA 8270E	9-19-23	9-19-23	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270E/SIM	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*58*	*11 - 111*				
Phenol-d6	*55*	*26 - 117*				
Nitrobenzene-d5	*55*	*31 - 111*				
2-Fluorobiphenyl	*71*	*38 - 109*				
2,4,6-Tribromophenol	*87*	*27 - 127*				
Terphenyl-d14	*77*	*37 - 116*				

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-143-01										
	MS	MSD	MS	MSD		MS	MSD				
n-Nitrosodimethylamine	**0.410**	**0.409**	0.667	0.667	ND	61	61	20 - 120	0	30	
Pyridine	**0.110**	**0.108**	0.667	0.667	ND	16	16	20 - 120	2	30	I,I
Phenol	**0.432**	**0.427**	0.667	0.667	ND	65	64	28 - 112	1	39	
Aniline	**0.232**	**0.230**	0.667	0.667	ND	35	34	20 - 120	1	30	
bis(2-Chloroethyl)ether	**0.377**	**0.353**	0.667	0.667	0.0406	50	47	20 - 120	7	30	
2-Chlorophenol	**0.402**	**0.396**	0.667	0.667	ND	60	59	30 - 108	2	40	
1,3-Dichlorobenzene	**0.348**	**0.342**	0.667	0.667	ND	52	51	20 - 120	2	30	
1,4-Dichlorobenzene	**0.381**	**0.372**	0.667	0.667	ND	57	56	25 - 106	2	44	
Benzyl alcohol	**0.405**	**0.410**	0.667	0.667	ND	61	61	20 - 120	1	30	
1,2-Dichlorobenzene	**0.377**	**0.373**	0.667	0.667	ND	57	56	20 - 120	1	30	
2-Methylphenol (o-Cresol)	**0.427**	**0.396**	0.667	0.667	ND	64	59	20 - 120	8	30	
bis(2-Chloroisopropyl)ether	**0.382**	**0.362**	0.667	0.667	ND	57	54	20 - 120	5	30	
(3+4)-Methylphenol (m,p-Cresol)	**0.448**	**0.428**	0.667	0.667	ND	67	64	20 - 120	5	30	
n-Nitroso-di-n-propylamine	**0.423**	**0.409**	0.667	0.667	ND	63	61	32 - 112	3	42	
Hexachloroethane	**0.262**	**0.205**	0.667	0.667	ND	39	31	20 - 120	24	30	
Nitrobenzene	**0.413**	**0.418**	0.667	0.667	ND	62	63	20 - 120	1	30	
Isophorone	**0.388**	**0.410**	0.667	0.667	ND	58	61	20 - 120	6	30	
2-Nitrophenol	**0.450**	**0.464**	0.667	0.667	ND	67	70	20 - 120	3	30	
2,4-Dimethylphenol	**0.503**	**0.523**	0.667	0.667	ND	75	78	20 - 120	4	30	
bis(2-Chloroethoxy)methane	**0.382**	**0.383**	0.667	0.667	ND	57	57	20 - 120	0	30	
2,4-Dichlorophenol	**0.495**	**0.498**	0.667	0.667	ND	74	75	20 - 120	1	30	
1,2,4-Trichlorobenzene	**0.480**	**0.466**	0.667	0.667	ND	72	70	30 - 110	3	40	
Naphthalene	**0.416**	**0.410**	0.667	0.667	ND	62	61	20 - 120	1	30	
4-Chloroaniline	**0.247**	**0.255**	0.667	0.667	ND	37	38	20 - 120	3	30	
Hexachlorobutadiene	**0.478**	**0.492**	0.667	0.667	ND	72	74	20 - 120	3	30	
4-Chloro-3-methylphenol	**0.452**	**0.472**	0.667	0.667	ND	68	71	44 - 112	4	28	
2-Methylnaphthalene	**0.462**	**0.507**	0.667	0.667	ND	69	76	20 - 120	9	30	
1-Methylnaphthalene	**0.465**	**0.465**	0.667	0.667	ND	70	70	20 - 120	0	30	
Hexachlorocyclopentadiene	**0.197**	**0.129**	0.667	0.667	ND	30	19	20 - 120	42	30	I,L
2,4,6-Trichlorophenol	**0.496**	**0.519**	0.667	0.667	ND	74	78	20 - 120	5	30	
2,3-Dichloroaniline	**0.426**	**0.432**	0.667	0.667	ND	64	65	20 - 120	1	30	
2,4,5-Trichlorophenol	**0.484**	**0.488**	0.667	0.667	ND	73	73	20 - 120	1	30	
2-Chloronaphthalene	**0.474**	**0.477**	0.667	0.667	ND	71	72	20 - 120	1	30	
2-Nitroaniline	**0.454**	**0.497**	0.667	0.667	ND	68	75	20 - 120	9	30	
1,4-Dinitrobenzene	**0.414**	**0.414**	0.667	0.667	ND	62	62	20 - 120	0	30	
Dimethylphthalate	**0.458**	**0.515**	0.667	0.667	ND	69	77	20 - 120	12	30	
1,3-Dinitrobenzene	**0.439**	**0.443**	0.667	0.667	ND	66	66	20 - 120	1	30	
2,6-Dinitrotoluene	**0.452**	**0.461**	0.667	0.667	ND	68	69	20 - 120	2	30	
1,2-Dinitrobenzene	**0.393**	**0.386**	0.667	0.667	ND	59	58	20 - 120	2	30	
Acenaphthylene	**0.461**	**0.473**	0.667	0.667	ND	69	71	20 - 120	3	30	
3-Nitroaniline	**0.465**	**0.442**	0.667	0.667	ND	70	66	20 - 120	5	30	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-143-01										
	MS	MSD	MS	MSD		MS	MSD				
2,4-Dinitrophenol	**0.521**	**0.425**	0.667	0.667	ND	78	64	20 - 120	20	30	
Acenaphthene	**0.466**	**0.482**	0.667	0.667	ND	70	72	34 - 107	3	33	
4-Nitrophenol	**0.500**	**0.486**	0.667	0.667	ND	75	73	33 - 140	3	34	
2,4-Dinitrotoluene	**0.401**	**0.414**	0.667	0.667	ND	60	62	38 - 111	3	31	
Dibenzofuran	**0.463**	**0.510**	0.667	0.667	ND	69	76	20 - 120	10	30	
2,3,5,6-Tetrachlorophenol	**0.522**	**0.530**	0.667	0.667	ND	78	79	20 - 120	2	30	
2,3,4,6-Tetrachlorophenol	**0.484**	**0.502**	0.667	0.667	ND	73	75	20 - 120	4	30	
Diethylphthalate	**0.466**	**0.487**	0.667	0.667	ND	70	73	20 - 120	4	30	
4-Chlorophenyl-phenylether	**0.503**	**0.547**	0.667	0.667	ND	75	82	20 - 120	8	30	
4-Nitroaniline	**0.160**	**0.238**	0.667	0.667	ND	24	36	20 - 120	39	30	L
Fluorene	**0.489**	**0.510**	0.667	0.667	ND	73	76	20 - 120	4	30	
4,6-Dinitro-2-methylphenol	**0.443**	**0.341**	0.667	0.667	ND	66	51	20 - 120	26	30	
n-Nitrosodiphenylamine	**0.460**	**0.462**	0.667	0.667	ND	69	69	20 - 120	0	30	
1,2-Diphenylhydrazine	**0.479**	**0.481**	0.667	0.667	ND	72	72	20 - 120	0	30	
4-Bromophenyl-phenylether	**0.478**	**0.497**	0.667	0.667	ND	72	75	20 - 120	4	30	
Hexachlorobenzene	**0.512**	**0.509**	0.667	0.667	ND	77	76	20 - 120	1	30	
Pentachlorophenol	**0.707**	**0.730**	0.667	0.667	0.0719	95	99	27 - 141	3	36	
Phenanthrene	**0.495**	**0.516**	0.667	0.667	0.0676	64	67	20 - 120	4	30	
Anthracene	**0.457**	**0.512**	0.667	0.667	ND	69	77	20 - 120	11	30	
Carbazole	**0.514**	**0.478**	0.667	0.667	ND	77	72	20 - 120	7	30	
Di-n-butylphthalate	**0.562**	**0.576**	0.667	0.667	ND	84	86	20 - 120	2	30	
Fluoranthene	**0.523**	**0.508**	0.667	0.667	0.0505	71	69	20 - 120	3	30	
Pyrene	**0.505**	**0.501**	0.667	0.667	0.0742	65	64	28 - 126	1	33	
Butylbenzylphthalate	**0.487**	**0.446**	0.667	0.667	ND	73	67	20 - 120	9	30	
bis-2-Ethylhexyladipate	**0.445**	**0.435**	0.667	0.667	ND	67	65	20 - 120	2	30	
3,3'-Dichlorobenzidine	**ND**	**ND**	0.667	0.667	ND	0	0	20 - 120	NA	30	I,I,L
Benzo[a]anthracene	**0.501**	**0.469**	0.667	0.667	ND	75	70	20 - 120	7	30	
Chrysene	**0.518**	**0.515**	0.667	0.667	ND	78	77	20 - 120	1	30	
bis(2-Ethylhexyl)phthalate	**0.440**	**0.433**	0.667	0.667	ND	66	65	20 - 120	2	30	
Di-n-octylphthalate	**0.471**	**0.451**	0.667	0.667	ND	71	68	20 - 120	4	30	
Benzo[b]fluoranthene	**0.485**	**0.488**	0.667	0.667	ND	73	73	20 - 120	1	30	
Benzo(j,k)fluoranthene	**0.522**	**0.527**	0.667	0.667	ND	78	79	20 - 120	1	30	
Benzo[a]pyrene	**0.530**	**0.529**	0.667	0.667	ND	79	79	20 - 120	0	30	
Indeno[1,2,3-cd]pyrene	**0.530**	**0.512**	0.667	0.667	ND	79	77	20 - 120	3	30	
Dibenz[a,h]anthracene	**0.496**	**0.508**	0.667	0.667	ND	74	76	20 - 120	2	30	
Benzo[g,h,i]perylene	**0.507**	**0.511**	0.667	0.667	ND	76	77	20 - 120	1	30	
Surrogate:											
2-Fluorophenol						*61*	*59*	*11 - 111*			
Phenol-d6						*63*	*60*	*26 - 117*			
Nitrobenzene-d5						*63*	*64*	*31 - 111*			
2-Fluorobiphenyl						*74*	*71*	*38 - 109*			
2,4,6-Tribromophenol						*85*	*87*	*27 - 127*			
Terphenyl-d14						*75*	*77*	*37 - 116*			

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Matrix: Solid
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-009-091523**					
Laboratory ID:	09-155-06					
n-Nitrosodimethylamine	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Pyridine	**ND**	0.20	EPA 8270E	9-19-23	9-20-23	
Phenol	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Aniline	**ND**	0.10	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroethyl)ether	**ND**	0.026	EPA 8270E	9-19-23	9-20-23	
2-Chlorophenol	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
1,3-Dichlorobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
1,4-Dichlorobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Benzyl alcohol	**ND**	0.040	EPA 8270E	9-19-23	9-20-23	
1,2-Dichlorobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2-Methylphenol (o-Cresol)	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroisopropyl)ether	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
n-Nitroso-di-n-propylamine	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Hexachloroethane	**ND**	0.046	EPA 8270E	9-19-23	9-20-23	
Nitrobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Isophorone	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2-Nitrophenol	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2,4-Dimethylphenol	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
bis(2-Chloroethoxy)methane	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2,4-Dichlorophenol	**ND**	0.040	EPA 8270E	9-19-23	9-20-23	
1,2,4-Trichlorobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Naphthalene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
4-Chloroaniline	**ND**	0.10	EPA 8270E	9-19-23	9-20-23	
Hexachlorobutadiene	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
4-Chloro-3-methylphenol	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2-Methylnaphthalene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
1-Methylnaphthalene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Hexachlorocyclopentadiene	**ND**	1.3	EPA 8270E	9-19-23	9-20-23	
2,4,6-Trichlorophenol	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2,3-Dichloroaniline	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2,4,5-Trichlorophenol	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2-Chloronaphthalene	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2-Nitroaniline	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
1,4-Dinitrobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Dimethylphthalate	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
1,3-Dinitrobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2,6-Dinitrotoluene	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
1,2-Dinitrobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Acenaphthylene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
3-Nitroaniline	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-009-091523**					
Laboratory ID:	09-155-06					
2,4-Dinitrophenol	**ND**	0.23	EPA 8270E	9-19-23	9-20-23	
Acenaphthene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
4-Nitrophenol	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2,4-Dinitrotoluene	**ND**	0.026	EPA 8270E	9-19-23	9-20-23	
Dibenzofuran	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Diethylphthalate	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
4-Chlorophenyl-phenylether	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
4-Nitroaniline	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Fluorene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
4,6-Dinitro-2-methylphenol	**ND**	0.33	EPA 8270E	9-19-23	9-20-23	
n-Nitrosodiphenylamine	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
1,2-Diphenylhydrazine	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
4-Bromophenyl-phenylether	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Hexachlorobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Pentachlorophenol	**ND**	0.040	EPA 8270E	9-19-23	9-20-23	
Phenanthrene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Anthracene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Carbazole	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Di-n-butylphthalate	**ND**	0.10	EPA 8270E	9-19-23	9-20-23	
Fluoranthene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Pyrene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Butylbenzylphthalate	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
bis-2-Ethylhexyladipate	**ND**	0.13	EPA 8270E	9-19-23	9-20-23	
3,3'-Dichlorobenzidine	**ND**	0.10	EPA 8270E	9-19-23	9-20-23	
Benzo[a]anthracene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Chrysene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.13	EPA 8270E	9-19-23	9-20-23	
Di-n-octylphthalate	**ND**	0.020	EPA 8270E	9-19-23	9-20-23	
Benzo[b]fluoranthene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo(j,k)fluoranthene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[a]pyrene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Dibenz[a,h]anthracene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[g,h,i]perylene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*20*	*11 - 111*				
Phenol-d6	*39*	*26 - 117*				
Nitrobenzene-d5	*41*	*31 - 111*				
2-Fluorobiphenyl	*56*	*38 - 109*				
2,4,6-Tribromophenol	*6*	*27 - 127*				Q
Terphenyl-d14	*65*	*37 - 116*				

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Matrix: Solid
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919S1					
n-Nitrosodimethylamine	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Pyridine	**ND**	0.20	EPA 8270E	9-19-23	9-19-23	
Phenol	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Aniline	**ND**	0.10	EPA 8270E	9-19-23	9-19-23	
bis(2-Chloroethyl)ether	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2-Chlorophenol	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
1,3-Dichlorobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
1,4-Dichlorobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Benzyl alcohol	**ND**	0.040	EPA 8270E	9-19-23	9-19-23	
1,2-Dichlorobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2-Methylphenol (o-Cresol)	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
bis(2-Chloroisopropyl)ether	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
n-Nitroso-di-n-propylamine	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Hexachloroethane	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Nitrobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Isophorone	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2-Nitrophenol	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2,4-Dimethylphenol	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
bis(2-Chloroethoxy)methane	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2,4-Dichlorophenol	**ND**	0.040	EPA 8270E	9-19-23	9-19-23	
1,2,4-Trichlorobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Naphthalene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
4-Chloroaniline	**ND**	0.10	EPA 8270E	9-19-23	9-19-23	
Hexachlorobutadiene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
4-Chloro-3-methylphenol	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2-Methylnaphthalene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
1-Methylnaphthalene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Hexachlorocyclopentadiene	**ND**	0.13	EPA 8270E	9-19-23	9-19-23	
2,4,6-Trichlorophenol	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2,3-Dichloroaniline	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2,4,5-Trichlorophenol	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2-Chloronaphthalene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2-Nitroaniline	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
1,4-Dinitrobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Dimethylphthalate	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
1,3-Dinitrobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2,6-Dinitrotoluene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
1,2-Dinitrobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Acenaphthylene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
3-Nitroaniline	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	

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Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919S1					
2,4-Dinitrophenol	**ND**	0.10	EPA 8270E	9-19-23	9-19-23	
Acenaphthene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
4-Nitrophenol	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2,4-Dinitrotoluene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Dibenzofuran	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2,3,5,6-Tetrachlorophenol	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
2,3,4,6-Tetrachlorophenol	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Diethylphthalate	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
4-Chlorophenyl-phenylether	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
4-Nitroaniline	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Fluorene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
4,6-Dinitro-2-methylphenol	**ND**	0.10	EPA 8270E	9-19-23	9-19-23	
n-Nitrosodiphenylamine	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
1,2-Diphenylhydrazine	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
4-Bromophenyl-phenylether	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Hexachlorobenzene	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Pentachlorophenol	**ND**	0.040	EPA 8270E	9-19-23	9-19-23	
Phenanthrene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Anthracene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Carbazole	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Di-n-butylphthalate	**ND**	0.10	EPA 8270E	9-19-23	9-19-23	
Fluoranthene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Pyrene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Butylbenzylphthalate	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
bis-2-Ethylhexyladipate	**ND**	0.10	EPA 8270E	9-19-23	9-19-23	
3,3'-Dichlorobenzidine	**ND**	0.10	EPA 8270E	9-19-23	9-19-23	
Benzo[a]anthracene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Chrysene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
bis(2-Ethylhexyl)phthalate	**ND**	0.10	EPA 8270E	9-19-23	9-19-23	
Di-n-octylphthalate	**ND**	0.020	EPA 8270E	9-19-23	9-19-23	
Benzo[b]fluoranthene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo(j,k)fluoranthene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[a]pyrene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Dibenz[a,h]anthracene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Benzo[g,h,i]perylene	**ND**	0.0040	EPA 8270E/SIM	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*48*	*11 - 111*				
Phenol-d6	*50*	*26 - 117*				
Nitrobenzene-d5	*48*	*31 - 111*				
2-Fluorobiphenyl	*64*	*38 - 109*				
2,4,6-Tribromophenol	*98*	*27 - 127*				
Terphenyl-d14	*81*	*37 - 116*				

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Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Matrix: Solid
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0919S2									
	SB	SBD	SB	SBD	SB	SBD				
n-Nitrosodimethylamine	**0.472**	**0.383**	0.667	0.667	71	57	20 - 120	21	30	
Pyridine	**0.197**	**0.149**	0.667	0.667	30	22	20 - 120	28	30	
Phenol	**0.437**	**0.322**	0.667	0.667	66	48	49 - 109	30	23	I,L
Aniline	**0.414**	**0.309**	0.667	0.667	62	46	20 - 120	29	30	
bis(2-Chloroethyl)ether	**0.347**	**0.254**	0.667	0.667	52	38	20 - 120	31	30	L
2-Chlorophenol	**0.420**	**0.326**	0.667	0.667	63	49	52 - 105	25	26	I
1,3-Dichlorobenzene	**0.425**	**0.309**	0.667	0.667	64	46	20 - 120	32	30	L
1,4-Dichlorobenzene	**0.434**	**0.304**	0.667	0.667	65	46	51 - 102	35	28	I,L
Benzyl alcohol	**0.438**	**0.377**	0.667	0.667	66	57	20 - 120	15	30	
1,2-Dichlorobenzene	**0.438**	**0.317**	0.667	0.667	66	48	20 - 120	32	30	L
2-Methylphenol (o-Cresol)	**0.432**	**0.371**	0.667	0.667	65	56	20 - 120	15	30	
bis(2-Chloroisopropyl)ether	**0.398**	**0.288**	0.667	0.667	60	43	20 - 120	32	30	L
(3+4)-Methylphenol (m,p-Cresol)	**0.484**	**0.399**	0.667	0.667	73	60	20 - 120	19	30	
n-Nitroso-di-n-propylamine	**0.464**	**0.371**	0.667	0.667	70	56	46 - 111	22	25	
Hexachloroethane	**0.211**	**0.143**	0.667	0.667	32	21	20 - 120	38	30	L
Nitrobenzene	**0.443**	**0.337**	0.667	0.667	66	51	20 - 120	27	30	
Isophorone	**0.443**	**0.371**	0.667	0.667	66	56	20 - 120	18	30	
2-Nitrophenol	**0.404**	**0.340**	0.667	0.667	61	51	20 - 120	17	30	
2,4-Dimethylphenol	**0.542**	**0.532**	0.667	0.667	81	80	20 - 120	2	30	
bis(2-Chloroethoxy)methane	**0.400**	**0.329**	0.667	0.667	60	49	20 - 120	19	30	
2,4-Dichlorophenol	**0.504**	**0.436**	0.667	0.667	76	65	20 - 120	14	30	
1,2,4-Trichlorobenzene	**0.501**	**0.394**	0.667	0.667	75	59	52 - 106	24	28	
Naphthalene	**0.422**	**0.349**	0.667	0.667	63	52	20 - 120	19	30	
4-Chloroaniline	**0.470**	**0.394**	0.667	0.667	70	59	20 - 120	18	30	
Hexachlorobutadiene	**0.503**	**0.389**	0.667	0.667	75	58	20 - 120	26	30	
4-Chloro-3-methylphenol	**0.513**	**0.442**	0.667	0.667	77	66	54 - 112	15	20	
2-Methylnaphthalene	**0.520**	**0.442**	0.667	0.667	78	66	20 - 120	16	30	
1-Methylnaphthalene	**0.483**	**0.393**	0.667	0.667	72	59	20 - 120	21	30	
Hexachlorocyclopentadiene	**0.0683**	**0.0493**	0.667	0.667	10	7	20 - 120	32	30	I,I,L
2,4,6-Trichlorophenol	**0.568**	**0.525**	0.667	0.667	85	79	20 - 120	8	30	
2,3-Dichloroaniline	**0.476**	**0.442**	0.667	0.667	71	66	20 - 120	7	30	
2,4,5-Trichlorophenol	**0.546**	**0.478**	0.667	0.667	82	72	20 - 120	13	30	
2-Chloronaphthalene	**0.501**	**0.447**	0.667	0.667	75	67	20 - 120	11	30	
2-Nitroaniline	**0.528**	**0.412**	0.667	0.667	79	62	20 - 120	25	30	
1,4-Dinitrobenzene	**0.480**	**0.394**	0.667	0.667	72	59	20 - 120	20	30	
Dimethylphthalate	**0.553**	**0.496**	0.667	0.667	83	74	20 - 120	11	30	
1,3-Dinitrobenzene	**0.490**	**0.432**	0.667	0.667	73	65	20 - 120	13	30	
2,6-Dinitrotoluene	**0.482**	**0.465**	0.667	0.667	72	70	20 - 120	4	30	
1,2-Dinitrobenzene	**0.438**	**0.367**	0.667	0.667	66	55	20 - 120	18	30	
Acenaphthylene	**0.504**	**0.421**	0.667	0.667	76	63	20 - 120	18	30	
3-Nitroaniline	**0.484**	**0.405**	0.667	0.667	73	61	20 - 120	18	30	

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Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0919S2									
	SB	SBD	SB	SBD	SB	SBD				
2,4-Dinitrophenol	**0.306**	**0.264**	0.667	0.667	46	40	20 - 120	15	30	
Acenaphthene	**0.484**	**0.430**	0.667	0.667	73	64	55 - 101	12	20	
4-Nitrophenol	**0.568**	**0.541**	0.667	0.667	85	81	34 - 136	5	22	
2,4-Dinitrotoluene	**0.449**	**0.408**	0.667	0.667	67	61	51 - 111	10	21	
Dibenzofuran	**0.546**	**0.492**	0.667	0.667	82	74	20 - 120	10	30	
2,3,5,6-Tetrachlorophenol	**0.586**	**0.545**	0.667	0.667	88	82	20 - 120	7	30	
2,3,4,6-Tetrachlorophenol	**0.603**	**0.549**	0.667	0.667	90	82	20 - 120	9	30	
Diethylphthalate	**0.513**	**0.461**	0.667	0.667	77	69	20 - 120	11	30	
4-Chlorophenyl-phenylether	**0.627**	**0.537**	0.667	0.667	94	81	20 - 120	15	30	
4-Nitroaniline	**0.505**	**0.459**	0.667	0.667	76	69	20 - 120	10	30	
Fluorene	**0.570**	**0.504**	0.667	0.667	85	76	20 - 120	12	30	
4,6-Dinitro-2-methylphenol	**0.254**	**0.223**	0.667	0.667	38	33	20 - 120	13	30	
n-Nitrosodiphenylamine	**0.488**	**0.469**	0.667	0.667	73	70	20 - 120	4	30	
1,2-Diphenylhydrazine	**0.522**	**0.468**	0.667	0.667	78	70	20 - 120	11	30	
4-Bromophenyl-phenylether	**0.605**	**0.542**	0.667	0.667	91	81	20 - 120	11	30	
Hexachlorobenzene	**0.581**	**0.551**	0.667	0.667	87	83	20 - 120	5	30	
Pentachlorophenol	**0.730**	**0.638**	0.667	0.667	109	96	34 - 134	13	23	
Phenanthrene	**0.524**	**0.474**	0.667	0.667	79	71	20 - 120	10	30	
Anthracene	**0.548**	**0.478**	0.667	0.667	82	72	20 - 120	14	30	
Carbazole	**0.519**	**0.438**	0.667	0.667	78	66	20 - 120	17	30	
Di-n-butylphthalate	**0.489**	**0.430**	0.667	0.667	73	64	20 - 120	13	30	
Fluoranthene	**0.566**	**0.496**	0.667	0.667	85	74	20 - 120	13	30	
Pyrene	**0.523**	**0.459**	0.667	0.667	78	69	53 - 113	13	20	
Butylbenzylphthalate	**0.460**	**0.391**	0.667	0.667	69	59	20 - 120	16	30	
bis-2-Ethylhexyladipate	**0.404**	**0.346**	0.667	0.667	61	52	20 - 120	15	30	
3,3'-Dichlorobenzidine	**0.504**	**0.519**	0.667	0.667	76	78	20 - 120	3	30	
Benzo[a]anthracene	**0.547**	**0.482**	0.667	0.667	82	72	20 - 120	13	30	
Chrysene	**0.567**	**0.492**	0.667	0.667	85	74	20 - 120	14	30	
bis(2-Ethylhexyl)phthalate	**0.413**	**0.353**	0.667	0.667	62	53	20 - 120	16	30	
Di-n-octylphthalate	**0.456**	**0.390**	0.667	0.667	68	58	20 - 120	16	30	
Benzo[b]fluoranthene	**0.556**	**0.495**	0.667	0.667	83	74	20 - 120	12	30	
Benzo(j,k)fluoranthene	**0.583**	**0.544**	0.667	0.667	87	82	20 - 120	7	30	
Benzo[a]pyrene	**0.590**	**0.528**	0.667	0.667	88	79	20 - 120	11	30	
Indeno[1,2,3-cd]pyrene	**0.572**	**0.521**	0.667	0.667	86	78	20 - 120	9	30	
Dibenz[a,h]anthracene	**0.560**	**0.545**	0.667	0.667	84	82	20 - 120	3	30	
Benzo[g,h,i]perylene	**0.576**	**0.519**	0.667	0.667	86	78	20 - 120	10	30	
Surrogate:										
2-Fluorophenol					*65*	*54*	*11 - 111*			
Phenol-d6					*58*	*53*	*26 - 117*			
Nitrobenzene-d5					*62*	*55*	*31 - 111*			
2-Fluorobiphenyl					*76*	*77*	*38 - 109*			
2,4,6-Tribromophenol					*95*	*93*	*27 - 127*			
Terphenyl-d14					*84*	*82*	*37 - 116*			

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-011-091623**					
Laboratory ID:	09-155-08					
n-Nitrosodimethylamine	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Pyridine	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Phenol	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Aniline	**ND**	4.8	EPA 8270E	9-20-23	9-20-23	
bis(2-Chloroethyl)ether	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
2-Chlorophenol	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
1,3-Dichlorobenzene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
1,4-Dichlorobenzene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Benzyl alcohol	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
1,2-Dichlorobenzene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
2-Methylphenol (o-Cresol)	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
bis(2-Chloroisopropyl)ether	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
n-Nitroso-di-n-propylamine	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Hexachloroethane	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Nitrobenzene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Isophorone	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
2-Nitrophenol	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
2,4-Dimethylphenol	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
bis(2-Chloroethoxy)methane	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
2,4-Dichlorophenol	**ND**	1.9	EPA 8270E	9-20-23	9-20-23	
1,2,4-Trichlorobenzene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Naphthalene	**ND**	0.096	EPA 8270E/SIM	9-20-23	9-20-23	
4-Chloroaniline	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Hexachlorobutadiene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
4-Chloro-3-methylphenol	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
2-Methylnaphthalene	**ND**	0.096	EPA 8270E/SIM	9-20-23	9-20-23	
1-Methylnaphthalene	**ND**	0.096	EPA 8270E/SIM	9-20-23	9-20-23	
Hexachlorocyclopentadiene	**ND**	4.8	EPA 8270E	9-20-23	9-20-23	
2,4,6-Trichlorophenol	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
2,3-Dichloroaniline	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
2,4,5-Trichlorophenol	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
2-Chloronaphthalene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
2-Nitroaniline	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
1,4-Dinitrobenzene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Dimethylphthalate	**ND**	4.8	EPA 8270E	9-20-23	9-20-23	
1,3-Dinitrobenzene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
2,6-Dinitrotoluene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
1,2-Dinitrobenzene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Acenaphthylene	**ND**	0.096	EPA 8270E/SIM	9-20-23	9-20-23	
3-Nitroaniline	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:						
Laboratory ID:	09-158-08					
2,4-Dinitrophenol	**ND**	6.2	EPA 8270E	9-20-23	9-20-23	
Acenaphthene	**ND**	0.096	EPA 8270E/SIM	9-20-23	9-20-23	
4-Nitrophenol	**ND**	1.9	EPA 8270E	9-20-23	9-20-23	
2,4-Dinitrotoluene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Dibenzofuran	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
2,3,5,6-Tetrachlorophenol	**ND**	1.9	EPA 8270E	9-20-23	9-20-23	
2,3,4,6-Tetrachlorophenol	**ND**	1.9	EPA 8270E	9-20-23	9-20-23	
Diethylphthalate	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
4-Chlorophenyl-phenylether	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
4-Nitroaniline	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Fluorene	**ND**	0.096	EPA 8270E/SIM	9-20-23	9-20-23	
4,6-Dinitro-2-methylphenol	**ND**	4.8	EPA 8270E	9-20-23	9-20-23	
n-Nitrosodiphenylamine	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
1,2-Diphenylhydrazine	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
4-Bromophenyl-phenylether	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Hexachlorobenzene	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Pentachlorophenol	**ND**	4.8	EPA 8270E	9-20-23	9-20-23	
Phenanthrene	**ND**	0.096	EPA 8270E/SIM	9-20-23	9-20-23	
Anthracene	**ND**	0.096	EPA 8270E/SIM	9-20-23	9-20-23	
Carbazole	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Di-n-butylphthalate	**ND**	4.8	EPA 8270E	9-20-23	9-20-23	
Fluoranthene	**ND**	0.096	EPA 8270E/SIM	9-20-23	9-20-23	
Pyrene	**ND**	0.096	EPA 8270E/SIM	9-20-23	9-20-23	
Butylbenzylphthalate	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
bis-2-Ethylhexyladipate	**ND**	6.4	EPA 8270E	9-20-23	9-20-23	
3,3'-Dichlorobenzidine	**ND**	4.8	EPA 8270E	9-20-23	9-20-23	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	9-20-23	9-20-23	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	9-20-23	9-20-23	
bis(2-Ethylhexyl)phthalate	**ND**	6.3	EPA 8270E	9-20-23	9-20-23	
Di-n-octylphthalate	**ND**	0.96	EPA 8270E	9-20-23	9-20-23	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	9-20-23	9-20-23	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	9-20-23	9-20-23	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	9-20-23	9-20-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.0096	EPA 8270E/SIM	9-20-23	9-20-23	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	9-20-23	9-20-23	
Benzo[g,h,i]perylene	**ND**	0.0096	EPA 8270E/SIM	9-20-23	9-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*27*	*10 - 79*				
Phenol-d6	*18*	*10 - 82*				
Nitrobenzene-d5	*46*	*28 - 105*				
2-Fluorobiphenyl	*59*	*33 - 100*				
2,4,6-Tribromophenol	*90*	*25 - 124*				
Terphenyl-d14	*73*	*34 - 116*				

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
n-Nitrosodimethylamine	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Pyridine	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Phenol	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Aniline	**ND**	5.0	EPA 8270E	9-20-23	9-20-23	
bis(2-Chloroethyl)ether	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
2-Chlorophenol	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
1,3-Dichlorobenzene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
1,4-Dichlorobenzene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Benzyl alcohol	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
1,2-Dichlorobenzene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
2-Methylphenol (o-Cresol)	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
bis(2-Chloroisopropyl)ether	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
n-Nitroso-di-n-propylamine	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Hexachloroethane	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Nitrobenzene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Isophorone	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
2-Nitrophenol	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
2,4-Dimethylphenol	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
bis(2-Chloroethoxy)methane	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
2,4-Dichlorophenol	**ND**	2.0	EPA 8270E	9-20-23	9-20-23	
1,2,4-Trichlorobenzene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Naphthalene	**ND**	0.10	EPA 8270E/SIM	9-20-23	9-20-23	
4-Chloroaniline	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Hexachlorobutadiene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
4-Chloro-3-methylphenol	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
2-Methylnaphthalene	**ND**	0.10	EPA 8270E/SIM	9-20-23	9-20-23	
1-Methylnaphthalene	**ND**	0.10	EPA 8270E/SIM	9-20-23	9-20-23	
Hexachlorocyclopentadiene	**ND**	5.0	EPA 8270E	9-20-23	9-20-23	
2,4,6-Trichlorophenol	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
2,3-Dichloroaniline	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
2,4,5-Trichlorophenol	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
2-Chloronaphthalene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
2-Nitroaniline	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
1,4-Dinitrobenzene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Dimethylphthalate	**ND**	5.0	EPA 8270E	9-20-23	9-20-23	
1,3-Dinitrobenzene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
2,6-Dinitrotoluene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
1,2-Dinitrobenzene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Acenaphthylene	**ND**	0.10	EPA 8270E/SIM	9-20-23	9-20-23	
3-Nitroaniline	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	

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Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
2,4-Dinitrophenol	**ND**	6.5	EPA 8270E	9-20-23	9-20-23	
Acenaphthene	**ND**	0.10	EPA 8270E/SIM	9-20-23	9-20-23	
4-Nitrophenol	**ND**	2.0	EPA 8270E	9-20-23	9-20-23	
2,4-Dinitrotoluene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Dibenzofuran	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
2,3,5,6-Tetrachlorophenol	**ND**	2.0	EPA 8270E	9-20-23	9-20-23	
2,3,4,6-Tetrachlorophenol	**ND**	2.0	EPA 8270E	9-20-23	9-20-23	
Diethylphthalate	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
4-Chlorophenyl-phenylether	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
4-Nitroaniline	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Fluorene	**ND**	0.10	EPA 8270E/SIM	9-20-23	9-20-23	
4,6-Dinitro-2-methylphenol	**ND**	5.0	EPA 8270E	9-20-23	9-20-23	
n-Nitrosodiphenylamine	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
1,2-Diphenylhydrazine	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
4-Bromophenyl-phenylether	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Hexachlorobenzene	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Pentachlorophenol	**ND**	5.0	EPA 8270E	9-20-23	9-20-23	
Phenanthrene	**ND**	0.10	EPA 8270E/SIM	9-20-23	9-20-23	
Anthracene	**ND**	0.10	EPA 8270E/SIM	9-20-23	9-20-23	
Carbazole	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Di-n-butylphthalate	**ND**	5.0	EPA 8270E	9-20-23	9-20-23	
Fluoranthene	**ND**	0.10	EPA 8270E/SIM	9-20-23	9-20-23	
Pyrene	**ND**	0.10	EPA 8270E/SIM	9-20-23	9-20-23	
Butylbenzylphthalate	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
bis-2-Ethylhexyladipate	**ND**	6.6	EPA 8270E	9-20-23	9-20-23	
3,3'-Dichlorobenzidine	**ND**	5.0	EPA 8270E	9-20-23	9-20-23	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	9-20-23	9-20-23	
Chrysene	**ND**	0.010	EPA 8270E/SIM	9-20-23	9-20-23	
bis(2-Ethylhexyl)phthalate	**ND**	6.5	EPA 8270E	9-20-23	9-20-23	
Di-n-octylphthalate	**ND**	1.0	EPA 8270E	9-20-23	9-20-23	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	9-20-23	9-20-23	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	9-20-23	9-20-23	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	9-20-23	9-20-23	
Indeno[1,2,3-cd]pyrene	**ND**	0.010	EPA 8270E/SIM	9-20-23	9-20-23	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	9-20-23	9-20-23	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270E/SIM	9-20-23	9-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*46*	*10 - 79*				
Phenol-d6	*27*	*10 - 82*				
Nitrobenzene-d5	*75*	*28 - 105*				
2-Fluorobiphenyl	*88*	*33 - 100*				
2,4,6-Tribromophenol	*120*	*25 - 124*				
Terphenyl-d14	*104*	*34 - 116*				

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SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0920W1									
	SB	SBD	SB	SBD	SB	SBD				
n-Nitrosodimethylamine	**12.4**	**12.3**	20.0	20.0	62	62	40 - 120	1	30	
Pyridine	**8.55**	**8.00**	20.0	20.0	43	40	40 - 120	7	30	
Phenol	**6.86**	**6.91**	20.0	20.0	34	35	20 - 80	1	26	
Aniline	**13.0**	**13.4**	20.0	20.0	65	67	40 - 120	3	30	
bis(2-Chloroethyl)ether	**10.7**	**12.1**	20.0	20.0	54	61	40 - 120	12	30	
2-Chlorophenol	**13.4**	**12.6**	20.0	20.0	67	63	45 - 100	6	31	
1,3-Dichlorobenzene	**10.5**	**11.1**	20.0	20.0	53	56	40 - 120	6	30	
1,4-Dichlorobenzene	**11.5**	**11.2**	20.0	20.0	58	56	34 - 100	3	37	
Benzyl alcohol	**12.5**	**12.4**	20.0	20.0	63	62	40 - 120	1	30	
1,2-Dichlorobenzene	**11.2**	**11.9**	20.0	20.0	56	60	40 - 120	6	30	
2-Methylphenol (o-Cresol)	**12.8**	**13.0**	20.0	20.0	64	65	40 - 120	2	30	
bis(2-Chloroisopropyl)ether	**11.8**	**12.9**	20.0	20.0	59	65	40 - 120	9	30	
(3+4)-Methylphenol (m,p-Cresol)	**12.1**	**12.2**	20.0	20.0	61	61	40 - 120	1	30	
n-Nitroso-di-n-propylamine	**13.1**	**14.4**	20.0	20.0	66	72	44 - 120	9	26	
Hexachloroethane	**9.55**	**9.95**	20.0	20.0	48	50	40 - 120	4	30	
Nitrobenzene	**14.3**	**14.1**	20.0	20.0	72	71	40 - 120	1	30	
Isophorone	**13.5**	**13.3**	20.0	20.0	68	67	40 - 120	1	30	
2-Nitrophenol	**14.9**	**14.0**	20.0	20.0	75	70	40 - 120	6	30	
2,4-Dimethylphenol	**17.6**	**18.6**	20.0	20.0	88	93	40 - 120	6	30	
bis(2-Chloroethoxy)methane	**13.9**	**12.7**	20.0	20.0	70	64	40 - 120	9	30	
2,4-Dichlorophenol	**16.8**	**16.7**	20.0	20.0	84	84	40 - 120	1	30	
1,2,4-Trichlorobenzene	**15.6**	**13.5**	20.0	20.0	78	68	40 - 100	14	33	
Naphthalene	**14.0**	**12.6**	20.0	20.0	70	63	40 - 120	11	30	
4-Chloroaniline	**16.5**	**16.3**	20.0	20.0	83	82	40 - 120	1	30	
Hexachlorobutadiene	**13.8**	**13.3**	20.0	20.0	69	67	40 - 120	4	30	
4-Chloro-3-methylphenol	**15.6**	**13.9**	20.0	20.0	78	70	52 - 120	12	21	
2-Methylnaphthalene	**16.7**	**15.6**	20.0	20.0	84	78	40 - 120	7	30	
1-Methylnaphthalene	**14.9**	**15.0**	20.0	20.0	75	75	40 - 120	1	30	
Hexachlorocyclopentadiene	**14.5**	**14.9**	20.0	20.0	73	75	20 - 100	3	30	
2,4,6-Trichlorophenol	**16.6**	**18.8**	20.0	20.0	83	94	40 - 120	12	30	
2,3-Dichloroaniline	**13.5**	**14.0**	20.0	20.0	68	70	40 - 120	4	30	
2,4,5-Trichlorophenol	**17.3**	**17.2**	20.0	20.0	87	86	40 - 120	1	30	
2-Chloronaphthalene	**15.9**	**16.6**	20.0	20.0	80	83	40 - 120	4	30	
2-Nitroaniline	**15.1**	**15.9**	20.0	20.0	76	80	40 - 120	5	30	
1,4-Dinitrobenzene	**16.7**	**15.7**	20.0	20.0	84	79	40 - 120	6	30	
Dimethylphthalate	**17.6**	**17.8**	20.0	20.0	88	89	40 - 120	1	30	
1,3-Dinitrobenzene	**16.2**	**16.3**	20.0	20.0	81	82	40 - 120	1	30	
2,6-Dinitrotoluene	**15.7**	**17.1**	20.0	20.0	79	86	40 - 120	9	30	
1,2-Dinitrobenzene	**13.9**	**14.5**	20.0	20.0	70	73	40 - 120	4	30	
Acenaphthylene	**15.8**	**16.1**	20.0	20.0	79	81	40 - 120	2	30	
3-Nitroaniline	**15.4**	**15.3**	20.0	20.0	77	77	40 - 120	1	30	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

SEMIVOLATILE ORGANICS EPA 8270E/SIM
QUALITY CONTROL
page 2 of 2

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0920W1									
	SB	SBD	SB	SBD	SB	SBD				
2,4-Dinitrophenol	**13.3**	**14.5**	20.0	20.0	67	73	20 - 100	9	30	
Acenaphthene	**15.6**	**16.9**	20.0	20.0	78	85	52 - 100	8	23	
4-Nitrophenol	**10.1**	**10.5**	20.0	20.0	51	53	23 - 100	4	20	
2,4-Dinitrotoluene	**15.5**	**15.3**	20.0	20.0	78	77	53 - 103	1	22	
Dibenzofuran	**17.5**	**17.5**	20.0	20.0	88	88	40 - 120	0	30	
2,3,5,6-Tetrachlorophenol	**16.0**	**15.9**	20.0	20.0	80	80	40 - 120	1	30	
2,3,4,6-Tetrachlorophenol	**17.7**	**16.8**	20.0	20.0	89	84	40 - 120	5	30	
Diethylphthalate	**16.0**	**16.8**	20.0	20.0	80	84	40 - 120	5	30	
4-Chlorophenyl-phenylether	**19.6**	**19.5**	20.0	20.0	98	98	40 - 120	1	30	
4-Nitroaniline	**14.4**	**15.4**	20.0	20.0	72	77	40 - 120	7	30	
Fluorene	**17.3**	**18.2**	20.0	20.0	87	91	40 - 120	5	30	
4,6-Dinitro-2-methylphenol	**13.7**	**14.3**	20.0	20.0	69	72	20 - 100	4	30	
n-Nitrosodiphenylamine	**15.7**	**15.7**	20.0	20.0	79	79	40 - 120	0	30	
1,2-Diphenylhydrazine	**16.4**	**16.6**	20.0	20.0	82	83	40 - 120	1	30	
4-Bromophenyl-phenylether	**18.5**	**18.2**	20.0	20.0	93	91	40 - 120	2	30	
Hexachlorobenzene	**17.8**	**19.1**	20.0	20.0	89	96	40 - 120	7	30	
Pentachlorophenol	**17.3**	**14.8**	20.0	20.0	87	74	52 - 134	16	25	
Phenanthrene	**15.1**	**15.9**	20.0	20.0	76	80	40 - 120	5	30	
Anthracene	**16.8**	**16.5**	20.0	20.0	84	83	40 - 120	2	30	
Carbazole	**15.3**	**15.3**	20.0	20.0	77	77	40 - 120	0	30	
Di-n-butylphthalate	**19.2**	**16.1**	20.0	20.0	96	81	40 - 120	18	30	
Fluoranthene	**17.4**	**17.4**	20.0	20.0	87	87	40 - 120	0	30	
Pyrene	**15.4**	**16.2**	20.0	20.0	77	81	54 - 110	5	20	
Butylbenzylphthalate	**13.9**	**13.5**	20.0	20.0	70	68	40 - 120	3	30	
bis-2-Ethylhexyladipate	**13.0**	**12.5**	20.0	20.0	65	63	40 - 120	4	30	
3,3'-Dichlorobenzidine	**13.4**	**14.3**	20.0	20.0	67	72	40 - 120	6	30	
Benzo[a]anthracene	**16.9**	**16.8**	20.0	20.0	85	84	40 - 120	1	30	
Chrysene	**17.2**	**17.7**	20.0	20.0	86	89	40 - 120	3	30	
bis(2-Ethylhexyl)phthalate	**13.1**	**12.9**	20.0	20.0	66	65	40 - 120	2	30	
Di-n-octylphthalate	**13.6**	**13.8**	20.0	20.0	68	69	40 - 120	1	30	
Benzo[b]fluoranthene	**16.7**	**16.2**	20.0	20.0	84	81	40 - 120	3	30	
Benzo(j,k)fluoranthene	**17.9**	**18.2**	20.0	20.0	90	91	40 - 120	2	30	
Benzo[a]pyrene	**17.8**	**18.0**	20.0	20.0	89	90	40 - 120	1	30	
Indeno[1,2,3-cd]pyrene	**18.1**	**18.3**	20.0	20.0	91	92	40 - 120	1	30	
Dibenz[a,h]anthracene	**17.4**	**18.0**	20.0	20.0	87	90	40 - 120	3	30	
Benzo[g,h,i]perylene	**17.9**	**18.1**	20.0	20.0	90	91	40 - 120	1	30	
Surrogate:										
2-Fluorophenol					*46*	*47*	*10 - 79*			
Phenol-d6					*29*	*28*	*10 - 82*			
Nitrobenzene-d5					*75*	*71*	*28 - 105*			
2-Fluorobiphenyl					*85*	*91*	*33 - 100*			
2,4,6-Tribromophenol					*111*	*111*	*25 - 124*			
Terphenyl-d14					*93*	*92*	*34 - 116*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-004-091523**					
Laboratory ID:	09-155-01					
Aroclor 1016	**ND**	0.055	EPA 8082A	9-18-23	9-18-23	
Aroclor 1221	**ND**	0.055	EPA 8082A	9-18-23	9-18-23	
Aroclor 1232	**ND**	0.055	EPA 8082A	9-18-23	9-18-23	
Aroclor 1242	**ND**	0.055	EPA 8082A	9-18-23	9-18-23	
Aroclor 1248	**ND**	0.055	EPA 8082A	9-18-23	9-18-23	
Aroclor 1254	**ND**	0.055	EPA 8082A	9-18-23	9-18-23	
Aroclor 1260	**ND**	0.055	EPA 8082A	9-18-23	9-18-23	
Aroclor 1262	**ND**	0.055	EPA 8082A	9-18-23	9-18-23	
Aroclor 1268	**ND**	0.055	EPA 8082A	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*71*	*50-127*				
Client ID:	**WC-005-091523**					
Laboratory ID:	09-155-02					
Aroclor 1016	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1221	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1232	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1242	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1248	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1254	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1260	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1262	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Aroclor 1268	**ND**	0.053	EPA 8082A	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*67*	*50-127*				
Client ID:	**WC-006-091523**					
Laboratory ID:	09-155-03					
Aroclor 1016	**ND**	0.061	EPA 8082A	9-18-23	9-18-23	
Aroclor 1221	**ND**	0.061	EPA 8082A	9-18-23	9-18-23	
Aroclor 1232	**ND**	0.061	EPA 8082A	9-18-23	9-18-23	
Aroclor 1242	**ND**	0.061	EPA 8082A	9-18-23	9-18-23	
Aroclor 1248	**ND**	0.061	EPA 8082A	9-18-23	9-18-23	
Aroclor 1254	**ND**	0.061	EPA 8082A	9-18-23	9-18-23	
Aroclor 1260	**ND**	0.061	EPA 8082A	9-18-23	9-18-23	
Aroclor 1262	**ND**	0.061	EPA 8082A	9-18-23	9-18-23	
Aroclor 1268	**ND**	0.061	EPA 8082A	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*64*	*50-127*				

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-007-091523**					
Laboratory ID:	09-155-04					
Aroclor 1016	**ND**	0.056	EPA 8082A	9-18-23	9-18-23	
Aroclor 1221	**ND**	0.056	EPA 8082A	9-18-23	9-18-23	
Aroclor 1232	**ND**	0.056	EPA 8082A	9-18-23	9-18-23	
Aroclor 1242	**ND**	0.056	EPA 8082A	9-18-23	9-18-23	
Aroclor 1248	**ND**	0.056	EPA 8082A	9-18-23	9-18-23	
Aroclor 1254	**ND**	0.056	EPA 8082A	9-18-23	9-18-23	
Aroclor 1260	**ND**	0.056	EPA 8082A	9-18-23	9-18-23	
Aroclor 1262	**ND**	0.056	EPA 8082A	9-18-23	9-18-23	
Aroclor 1268	**ND**	0.056	EPA 8082A	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*72*	*50-127*				
Client ID:	**WC-008-091523**					
Laboratory ID:	09-155-05					
Aroclor 1016	**ND**	0.057	EPA 8082A	9-18-23	9-18-23	
Aroclor 1221	**ND**	0.057	EPA 8082A	9-18-23	9-18-23	
Aroclor 1232	**ND**	0.057	EPA 8082A	9-18-23	9-18-23	
Aroclor 1242	**ND**	0.057	EPA 8082A	9-18-23	9-18-23	
Aroclor 1248	**ND**	0.057	EPA 8082A	9-18-23	9-18-23	
Aroclor 1254	**ND**	0.057	EPA 8082A	9-18-23	9-18-23	
Aroclor 1260	**ND**	0.057	EPA 8082A	9-18-23	9-18-23	
Aroclor 1262	**ND**	0.057	EPA 8082A	9-18-23	9-18-23	
Aroclor 1268	**ND**	0.057	EPA 8082A	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*62*	*50-127*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*80*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-141-16										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.800**	**0.773**	0.500	0.500	0.436	**73**	**67**	41-121	3	28	
Surrogate:											
DCB						*75*	*70*	*50-127*			

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

PCBs EPA 8082A

Matrix: Solid
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-009-091523**					
Laboratory ID:	09-155-06					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*74*	*50-127*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Solid
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*80*	*50-127*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	09-141-16										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.800**	**0.773**	0.500	0.500	0.436	**73**	**67**	41-121	3	28	
Surrogate:											
DCB						*75*	*70*	*50-127*			

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-011-091623**					
Laboratory ID:	09-155-08					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*94*	*55-138*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920W1					
Aroclor 1016	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1221	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1232	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1242	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1248	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1254	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1260	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1262	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Aroclor 1268	**ND**	0.050	EPA 8082A	9-20-23	9-20-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*90*	*55-138*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0920W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.497**	**0.509**	0.500	0.500	N/A	**99**	**102**	66-120	2	16	
Surrogate:											
DCB						*99*	*99*	*55-138*			

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-004-091523**					
Laboratory ID:	09-155-01					
Arsenic	**30**	11	EPA 6010D	9-19-23	9-19-23	
Barium	**150**	2.8	EPA 6010D	9-19-23	9-19-23	
Cadmium	**0.76**	0.55	EPA 6010D	9-19-23	9-19-23	
Chromium	**110**	0.55	EPA 6010D	9-19-23	9-19-23	
Copper	**94**	1.1	EPA 6010D	9-19-23	9-19-23	
Lead	**430**	5.5	EPA 6010D	9-19-23	9-19-23	
Mercury	**ND**	0.28	EPA 7471B	9-19-23	9-19-23	
Nickel	**420**	2.8	EPA 6010D	9-19-23	9-19-23	
Selenium	**ND**	11	EPA 6010D	9-19-23	9-19-23	
Silver	**ND**	1.1	EPA 6010D	9-19-23	9-19-23	
Zinc	**470**	2.8	EPA 6010D	9-19-23	9-19-23	
Client ID:	**WC-005-091523**					
Laboratory ID:	09-155-02					
Arsenic	**37**	11	EPA 6010D	9-19-23	9-19-23	
Barium	**76**	2.7	EPA 6010D	9-19-23	9-19-23	
Cadmium	**ND**	0.53	EPA 6010D	9-19-23	9-19-23	
Chromium	**93**	0.53	EPA 6010D	9-19-23	9-19-23	
Copper	**18**	1.1	EPA 6010D	9-19-23	9-19-23	
Lead	**310**	5.3	EPA 6010D	9-19-23	9-19-23	
Mercury	**ND**	0.27	EPA 7471B	9-19-23	9-19-23	
Nickel	**300**	2.7	EPA 6010D	9-19-23	9-19-23	
Selenium	**ND**	11	EPA 6010D	9-19-23	9-19-23	
Silver	**ND**	1.1	EPA 6010D	9-19-23	9-19-23	
Zinc	**200**	2.7	EPA 6010D	9-19-23	9-19-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-006-091523**					
Laboratory ID:	09-155-03					
Arsenic	**49**	12	EPA 6010D	9-19-23	9-19-23	
Barium	**200**	3.1	EPA 6010D	9-19-23	9-19-23	
Cadmium	**1.7**	0.61	EPA 6010D	9-19-23	9-19-23	
Chromium	**130**	0.61	EPA 6010D	9-19-23	9-19-23	
Copper	**94**	1.2	EPA 6010D	9-19-23	9-19-23	
Lead	**680**	61	EPA 6010D	9-19-23	9-19-23	
Mercury	**ND**	0.31	EPA 7471B	9-19-23	9-19-23	
Nickel	**1100**	31	EPA 6010D	9-19-23	9-19-23	
Selenium	**ND**	12	EPA 6010D	9-19-23	9-19-23	
Silver	**ND**	1.2	EPA 6010D	9-19-23	9-19-23	
Zinc	**780**	31	EPA 6010D	9-19-23	9-19-23	
Client ID:	**WC-007-091523**					
Laboratory ID:	09-155-04					
Arsenic	**ND**	11	EPA 6010D	9-19-23	9-19-23	
Barium	**150**	2.8	EPA 6010D	9-19-23	9-19-23	
Cadmium	**ND**	0.56	EPA 6010D	9-19-23	9-19-23	
Chromium	**41**	0.56	EPA 6010D	9-19-23	9-19-23	
Copper	**47**	1.1	EPA 6010D	9-19-23	9-19-23	
Lead	**260**	5.6	EPA 6010D	9-19-23	9-19-23	
Mercury	**ND**	0.28	EPA 7471B	9-19-23	9-19-23	
Nickel	**200**	2.8	EPA 6010D	9-19-23	9-19-23	
Selenium	**ND**	11	EPA 6010D	9-19-23	9-19-23	
Silver	**ND**	1.1	EPA 6010D	9-19-23	9-19-23	
Zinc	**310**	2.8	EPA 6010D	9-19-23	9-19-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-008-091523**					
Laboratory ID:	09-155-05					
Arsenic	**19**	11	EPA 6010D	9-19-23	9-19-23	
Barium	**160**	2.9	EPA 6010D	9-19-23	9-19-23	
Cadmium	**3.5**	0.57	EPA 6010D	9-19-23	9-19-23	
Chromium	**190**	0.57	EPA 6010D	9-19-23	9-19-23	
Copper	**53**	1.1	EPA 6010D	9-19-23	9-19-23	
Lead	**2100**	57	EPA 6010D	9-19-23	9-19-23	
Mercury	**ND**	0.29	EPA 7471B	9-19-23	9-19-23	
Nickel	**740**	29	EPA 6010D	9-19-23	9-19-23	
Selenium	**ND**	11	EPA 6010D	9-19-23	9-19-23	
Silver	**ND**	1.1	EPA 6010D	9-19-23	9-19-23	
Zinc	**2100**	29	EPA 6010D	9-19-23	9-19-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919SM1					
Arsenic	**ND**	10	EPA 6010D	9-19-23	9-19-23	
Barium	**ND**	2.5	EPA 6010D	9-19-23	9-19-23	
Cadmium	**ND**	0.50	EPA 6010D	9-19-23	9-19-23	
Chromium	**ND**	0.50	EPA 6010D	9-19-23	9-19-23	
Copper	**ND**	1.0	EPA 6010D	9-19-23	9-19-23	
Lead	**ND**	5.0	EPA 6010D	9-19-23	9-19-23	
Nickel	**ND**	2.5	EPA 6010D	9-19-23	9-19-23	
Selenium	**ND**	10	EPA 6010D	9-19-23	9-19-23	
Silver	**ND**	1.0	EPA 6010D	9-19-23	9-19-23	
Zinc	**ND**	2.5	EPA 6010D	9-19-23	9-19-23	
Laboratory ID:	MB0919S1					
Mercury	**ND**	0.25	EPA 7471B	9-19-23	9-19-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-155-03										
	ORIG	DUP									
Arsenic	**40.5**	**41.0**	NA	NA		NA		NA	1	20	
Barium	**164**	**159**	NA	NA		NA		NA	4	20	
Cadmium	**1.42**	**1.41**	NA	NA		NA		NA	1	20	
Chromium	**107**	**110**	NA	NA		NA		NA	3	20	
Copper	**77.4**	**55.8**	NA	NA		NA		NA	32	20	L
Lead	**557**	**521**	NA	NA		NA		NA	7	20	
Nickel	**937**	**905**	NA	NA		NA		NA	4	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**643**	**612**	NA	NA		NA		NA	5	20	
Laboratory ID:	09-155-03										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-155-03										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**137**	**135**	100	100	40.5	**96**	**94**	75-125	1	20	
Barium	**256**	**239**	100	100	164	**91**	**75**	75-125	7	20	
Cadmium	**50.6**	**48.2**	50.0	50.0	1.42	**98**	**94**	75-125	5	20	
Chromium	**207**	**194**	100	100	107	**100**	**87**	75-125	6	20	
Copper	**102**	**97.1**	50.0	50.0	77.4	**49**	**40**	75-125	5	20	V
Lead	**817**	**774**	250	250	557	**104**	**87**	75-125	5	20	
Nickel	**1110**	**1020**	100	100	937	**172**	**87**	75-125	8	20	A
Selenium	**91.8**	**90.3**	100	100	ND	**92**	**90**	75-125	2	20	
Silver	**24.8**	**23.5**	25.0	25.0	ND	**99**	**94**	75-125	5	20	
Zinc	**756**	**724**	100	100	643	**113**	**81**	75-125	4	20	
Laboratory ID:	09-155-03										
Mercury	**0.473**	**0.509**	0.500	0.500	0.0663	**81**	**89**	80-120	7	20	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TOTAL METALS
EPA 6010D/7471B

Matrix: Solid
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-009-091523**					
Laboratory ID:	09-155-06					
Arsenic	**ND**	10	EPA 6010D	9-19-23	9-19-23	
Barium	**55**	2.5	EPA 6010D	9-19-23	9-19-23	
Cadmium	**ND**	0.50	EPA 6010D	9-19-23	9-19-23	
Chromium	**19**	0.50	EPA 6010D	9-19-23	9-19-23	
Copper	**12**	1.0	EPA 6010D	9-19-23	9-19-23	
Lead	**16**	5.0	EPA 6010D	9-19-23	9-19-23	
Mercury	**ND**	0.25	EPA 7471B	9-19-23	9-19-23	
Nickel	**52**	2.5	EPA 6010D	9-19-23	9-19-23	
Selenium	**ND**	10	EPA 6010D	9-19-23	9-19-23	
Silver	**ND**	1.0	EPA 6010D	9-19-23	9-19-23	
Zinc	**63**	2.5	EPA 6010D	9-19-23	9-19-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Solid
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919SM1					
Arsenic	**ND**	10	EPA 6010D	9-19-23	9-19-23	
Barium	**ND**	2.5	EPA 6010D	9-19-23	9-19-23	
Cadmium	**ND**	0.50	EPA 6010D	9-19-23	9-19-23	
Chromium	**ND**	0.50	EPA 6010D	9-19-23	9-19-23	
Copper	**ND**	1.0	EPA 6010D	9-19-23	9-19-23	
Lead	**ND**	5.0	EPA 6010D	9-19-23	9-19-23	
Nickel	**ND**	2.5	EPA 6010D	9-19-23	9-19-23	
Selenium	**ND**	10	EPA 6010D	9-19-23	9-19-23	
Silver	**ND**	1.0	EPA 6010D	9-19-23	9-19-23	
Zinc	**ND**	2.5	EPA 6010D	9-19-23	9-19-23	
Laboratory ID:	MB0919S1					
Mercury	**ND**	0.25	EPA 7471B	9-19-23	9-19-23	

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Laboratory Reference: 2309-155
Project: 30092874.0003

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Solid
Units: mg/Kg (ppm)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-155-03										
	ORIG	DUP									
Arsenic	**40.5**	**41.0**	NA	NA		NA		NA	1	20	
Barium	**164**	**159**	NA	NA		NA		NA	4	20	
Cadmium	**1.42**	**1.41**	NA	NA		NA		NA	1	20	
Chromium	**107**	**110**	NA	NA		NA		NA	3	20	
Copper	**77.4**	**55.8**	NA	NA		NA		NA	32	20	L
Lead	**557**	**521**	NA	NA		NA		NA	7	20	
Nickel	**937**	**905**	NA	NA		NA		NA	4	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**643**	**612**	NA	NA		NA		NA	5	20	
Laboratory ID:	09-155-03										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-155-03										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**137**	**135**	100	100	40.5	**96**	**94**	75-125	1	20	
Barium	**256**	**239**	100	100	164	**91**	**75**	75-125	7	20	
Cadmium	**50.6**	**48.2**	50.0	50.0	1.42	**98**	**94**	75-125	5	20	
Chromium	**207**	**194**	100	100	107	**100**	**87**	75-125	6	20	
Copper	**102**	**97.1**	50.0	50.0	77.4	**49**	**40**	75-125	5	20	V
Lead	**817**	**774**	250	250	557	**104**	**87**	75-125	5	20	
Nickel	**1110**	**1020**	100	100	937	**172**	**87**	75-125	8	20	A
Selenium	**91.8**	**90.3**	100	100	ND	**92**	**90**	75-125	2	20	
Silver	**24.8**	**23.5**	25.0	25.0	ND	**99**	**94**	75-125	5	20	
Zinc	**756**	**724**	100	100	643	**113**	**81**	75-125	4	20	
Laboratory ID:	09-155-03										
Mercury	**0.473**	**0.509**	0.500	0.500	0.0663	**81**	**89**	80-120	7	20	

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Laboratory Reference: 2309-155
Project: 30092874.0003

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-011-091623**					
Laboratory ID:	09-155-08					
Arsenic	**81**	3.3	EPA 200.8	9-19-23	9-19-23	
Barium	**ND**	28	EPA 200.8	9-19-23	9-19-23	
Cadmium	**ND**	4.4	EPA 200.8	9-19-23	9-19-23	
Chromium	**ND**	11	EPA 200.8	9-19-23	9-19-23	
Copper	**ND**	11	EPA 200.8	9-19-23	9-19-23	
Lead	**3.2**	1.1	EPA 200.8	9-19-23	9-19-23	
Mercury	**ND**	0.50	EPA 7470A	9-20-23	9-20-23	
Nickel	**ND**	22	EPA 200.8	9-19-23	9-19-23	
Selenium	**ND**	5.6	EPA 200.8	9-19-23	9-19-23	
Silver	**ND**	11	EPA 200.8	9-19-23	9-19-23	
Zinc	**ND**	28	EPA 200.8	9-19-23	9-19-23	

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Laboratory Reference: 2309-155
Project: 30092874.0003

TOTAL METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919WM1					
Arsenic	**ND**	3.3	EPA 200.8	9-19-23	9-19-23	
Barium	**ND**	28	EPA 200.8	9-19-23	9-19-23	
Cadmium	**ND**	4.4	EPA 200.8	9-19-23	9-19-23	
Chromium	**ND**	11	EPA 200.8	9-19-23	9-19-23	
Copper	**ND**	11	EPA 200.8	9-19-23	9-19-23	
Lead	**ND**	1.1	EPA 200.8	9-19-23	9-19-23	
Nickel	**ND**	22	EPA 200.8	9-19-23	9-19-23	
Selenium	**ND**	5.6	EPA 200.8	9-19-23	9-19-23	
Silver	**ND**	11	EPA 200.8	9-19-23	9-19-23	
Zinc	**ND**	28	EPA 200.8	9-19-23	9-19-23	
Laboratory ID:	MB0920W1					
Mercury	**ND**	0.50	EPA 7470A	9-20-23	9-20-23	

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Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TOTAL METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-154-10										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Copper	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Nickel	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Zinc	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	09-155-08										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-154-10										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**108**	**106**	111	111	ND	**97**	**96**	75-125	1	20	
Barium	**115**	**113**	111	111	ND	**104**	**102**	75-125	2	20	
Cadmium	**110**	**110**	111	111	ND	**99**	**99**	75-125	0	20	
Chromium	**106**	**107**	111	111	ND	**96**	**96**	75-125	0	20	
Copper	**103**	**104**	111	111	ND	**93**	**94**	75-125	1	20	
Lead	**110**	**107**	111	111	ND	**99**	**96**	75-125	3	20	
Nickel	**103**	**103**	111	111	ND	**93**	**93**	75-125	0	20	
Selenium	**110**	**111**	111	111	ND	**99**	**100**	75-125	1	20	
Silver	**113**	**116**	111	111	ND	**102**	**104**	75-125	2	20	
Zinc	**107**	**108**	111	111	ND	**97**	**98**	75-125	1	20	
Laboratory ID:	09-155-08										
Mercury	**5.88**	**5.90**	6.25	6.25	ND	**94**	**94**	75-125	0	20	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TCLP LEAD
EPA 1311/6010D

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-004-091523**					
Laboratory ID:	09-155-01					
Lead	**ND**	0.20	EPA 6010D	9-20-23	9-20-23	
Client ID:	**WC-005-091523**					
Laboratory ID:	09-155-02					
Lead	**ND**	0.20	EPA 6010D	9-20-23	9-20-23	
Client ID:	**WC-006-091523**					
Laboratory ID:	09-155-03					
Lead	**ND**	0.20	EPA 6010D	9-20-23	9-20-23	
Client ID:	**WC-007-091523**					
Laboratory ID:	09-155-04					
Lead	**ND**	0.20	EPA 6010D	9-20-23	9-20-23	
Client ID:	**WC-008-091523**					
Laboratory ID:	09-155-05					
Lead	**0.37**	0.20	EPA 6010D	9-20-23	9-20-23	
Client ID:	**WC-010-091523**					
Laboratory ID:	09-155-07					
Lead	**8.7**	0.20	EPA 6010D	9-20-23	9-20-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TCLP LEAD
EPA 1311/6010D
QUALITY CONTROL

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920TM1					
Lead	**ND**	0.20	EPA 6010D	9-20-23	9-20-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-155-01										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-155-01										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**10.9**	**10.7**	10.0	10.0	ND	**109**	**107**	75-125	1	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TCLP LEAD
EPA 1311/6010D

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-009-091523**					
Laboratory ID:	09-155-06					
Lead	**ND**	0.20	EPA 6010D	9-20-23	9-20-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TCLP LEAD
EPA 1311/6010D
QUALITY CONTROL

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920TM1					
Lead	**ND**	0.20	EPA 6010D	9-20-23	9-20-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-155-01										
	ORIG	DUP									
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-155-01										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**10.9**	**10.7**	10.0	10.0	ND	**109**	**107**	75-125	1	20	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-004-091523**					
Laboratory ID:	09-155-01					
Diesel Range Organics	**68**	28	NWTPH-Dx	9-18-23	9-19-23	
Lube Oil	**410**	55	NWTPH-Dx	9-18-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*70*	*50-150*				
Client ID:	**WC-005-091523**					
Laboratory ID:	09-155-02					
Diesel Range Organics	**ND**	27	NWTPH-Dx	9-18-23	9-19-23	
Lube Oil Range Organics	**86**	53	NWTPH-Dx	9-18-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*71*	*50-150*				
Client ID:	**WC-006-091523**					
Laboratory ID:	09-155-03					
Diesel Range Organics	**38**	31	NWTPH-Dx	9-18-23	9-18-23	
Lube Oil Range Organics	**340**	61	NWTPH-Dx	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*71*	*50-150*				
Client ID:	**WC-007-091523**					
Laboratory ID:	09-155-04					
Diesel Range Organics	**49**	28	NWTPH-Dx	9-18-23	9-18-23	
Lube Oil Range Organics	**200**	56	NWTPH-Dx	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*72*	*50-150*				
Client ID:	**WC-008-091523**					
Laboratory ID:	09-155-05					
Diesel Range Organics	**ND**	37	NWTPH-Dx	9-18-23	9-18-23	U1
Lube Oil	**650**	57	NWTPH-Dx	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-18-23	9-18-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-155-05										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	U1,
Lube Oil	**567**	**545**	NA	NA		NA		NA	4	40	
Surrogate:											
o-Terphenyl						*78*	*73*	*50-150*			

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Solid
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-009-091523**					
Laboratory ID:	09-155-06					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-18-23	9-19-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-18-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*75*	*50-150*				

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Solid
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0918S2					
Diesel Range Organics	**ND**	25	NWTPH-Dx	9-18-23	9-18-23	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	9-18-23	9-18-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-155-05										
	ORIG	DUP									
Diesel Range Organics	**31.9**	**27.0**	NA	NA		NA		NA	17	40	
Lube Oil	**562**	**543**	NA	NA		NA		NA	3	40	
Surrogate:											
o-Terphenyl						*78*	*73*	*50-150*			

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-011-091623**					
Laboratory ID:	09-155-08					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	9-19-23	9-19-23	
Lube Oil Range Organics	**0.32**	0.21	NWTPH-Dx	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0919W1					
Diesel Range Organics	**ND**	0.12	NWTPH-Dx	9-19-23	9-19-23	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	9-19-23	9-19-23	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-155-08										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	40	
Lube Oil Range Organics	**0.324**	**0.292**	NA	NA		NA		NA	10	40	
Surrogate:											
o-Terphenyl						*86*	*86*	*50-150*			

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TCLP CHROMIUM
EPA 1311/6010D

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-004-091523**					
Laboratory ID:	09-155-01					
Chromium	**ND**	0.020	EPA 6010D	9-20-23	9-20-23	
Client ID:	**WC-006-091523**					
Laboratory ID:	09-155-03					
Chromium	**ND**	0.020	EPA 6010D	9-20-23	9-20-23	
Client ID:	**WC-008-091523**					
Laboratory ID:	09-155-05					
Chromium	**ND**	0.020	EPA 6010D	9-20-23	9-20-23	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

TCLP CHROMIUM
EPA 1311/6010D
QUALITY CONTROL

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0920TM1					
Chromium	**ND**	0.020	EPA 6010D	9-20-23	9-20-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-155-01										
	ORIG	DUP									
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	09-155-01										
	MS	MSD	MS	MSD		MS	MSD				
Chromium	**4.16**	**4.11**	4.00	4.00	ND	**104**	**103**	75-125	1	20	

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Date of Report: September 21, 2023
Samples Submitted: September 18, 2023
Laboratory Reference: 2309-155
Project: 30092874.0003

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
WC-004-091523	09-155-01	**10**	9-18-23
WC-005-091523	09-155-02	**6**	9-18-23
WC-006-091523	09-155-03	**18**	9-18-23
WC-007-091523	09-155-04	**10**	9-18-23
WC-008-091523	09-155-05	**13**	9-18-23

This report pertains to the samples analyzed in accordance with the chain of custody,
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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.0003
Project Name: USCG Burrow Island
Project Manager: Paul McCullough
Sampled by: Thomas Nannini

Turnaround Request (in working days)
(Check One) ~~Rush~~ DB
~~X~~ 1 Day
☐ Same Day
☒ 2 Days
☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 09-155

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up ☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total ~~RCRA~~ Metals As, Ba, Cd, Cr, Cu, Pb, Hg, Se, Ag, Ni, Zn	Total MTCA Metals	TCLP Metals Pb only	HEM (oil and grease) 1664	DRO/HO (NWTPH-Dx)		TCLP Cr		% Moisture
1	WC-004-091523	9/15/23	1620	S	5					X			X		X				X		X		X		⊗		10
2	WC-005-091523	9/15/23	1640	S	5					X			X		X				X		X		X				
3	WC-006-091523	9/15/23	1700	S	5					X			X		X				X		X		X		⊗		
4	WC-007-091523	9/15/23	1720	S	5					X			X		X				X		X		X				
5	WC-008-091523	9/15/23	1745	S	5					X			X		X				X		X		X		⊗		
6	WC-009-091523	9/15/23	1805	concrete	1					X			X		X				X		X		X		~~⊗~~ ND DB		
7	WC-010-091523	9/15/23	1830	wood	1																X	limited volume					
8	WC-011-091623	9/16/23	1315	W	10					X			X		X				X		~~X~~ ND DB		X				
~~9~~	~~WC-TN~~																										
	~~WC-TN~~																										

	Signature	Company	Date	Time
Relinquished	[signature]	Arcadis	9/18/23	0600
Received	Courier Service			
Relinquished				
Received	[signature]	COES	9/18/23	1245
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Call Mark Ullery when total metal results are complete to determine if TCLP should be added
⊗ Added 9/21/23. DB (1 day TAT)

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 26, 2023

Paul McCullough
Arcadis U.S., Inc.
1100 Olive Way, Suite 800
Seattle, WA 98101

Re: Analytical Data for Project 30092874.00003
Laboratory Reference No. 2309-238B

Dear Paul:

Enclosed are the analytical results and associated quality control data for samples submitted on September 25, 2023.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 26, 2023
Samples Submitted: September 25, 2023
Laboratory Reference: 2309-238B
Project: 30092874.00003

Case Narrative

Samples were collected on September 22, 23 and 24, 2023 and received by the laboratory on September 25, 2023. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below. However the soil results for the QA/QC samples are reported on a wet-weight basis.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

TCLP Lead EPA 1311/6010D Analysis

Due to a limited amount of sample, less than the required 100g was tumbled for TCLP analysis. The amount of used by both samples was: 10g.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 26, 2023
Samples Submitted: September 25, 2023
Laboratory Reference: 2309-238B
Project: 30092874.00003

TCLP LEAD
EPA 1311/6010D

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**WC-012-092223**					
Laboratory ID:	09-238-21					
Lead	**1.6**	0.20	EPA 6010D	9-26-23	9-26-23	
Client ID:	**WC-013-092423**					
Laboratory ID:	09-238-22					
Lead	**27**	0.20	EPA 6010D	9-26-23	9-26-23	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: September 26, 2023
Samples Submitted: September 25, 2023
Laboratory Reference: 2309-238B
Project: 30092874.00003

TCLP LEAD
EPA 1311/6010D
QUALITY CONTROL

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926TM1					
Lead	**ND**	0.20	EPA 6010D	9-26-23	9-26-23	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	09-238-22										
	ORIG	DUP									
Lead	**27.5**	**27.9**	NA	NA		NA		NA	1	20	
MATRIX SPIKES											
Laboratory ID:	09-238-22										
	MS	MSD	MS	MSD		MS	MSD				
Lead	**36.7**	**37.4**	10.0	10.0	27.5	**92**	**99**	75-125	2	20	

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

This report pertains to the samples analyzed in accordance with the chain of custody, and is intended only for the use of the individual or company to whom it is addressed.

Chain of Custody

Page 1 of 3 (PB)

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Arcadis
Project Number: 30092874.000B3
Project Name: USCG Burrows Island
Project Manager: Paul McCullough
Sampled by: Branden Joy

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day (Rush) ☐ 2 Days ☐ 3 Days ☐ Standard (7 Days) ☐ _____ (other)

Laboratory Number: 09-238

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	Total Lead (6010)				% Moisture
1	EB-F-007-092423 (SS→BS)	9/24/23	1610	S	1																		X				X
2	(BA) EB-F-008→SS-F-011-092423		1615	S	1																		X				
3	(BJ) EB-F-009→SS-F-012-092423		1620	S	1																		X				
4	(BJ) EB-F-010→SS-F-013-092423		1625	S	1																		X				
5	SS-F-014-092423		1630	S	1																		X				
6	SS-F-015-092423		1635	S	1																		X				
7	SS-F-016-092423		1640	S	1																		X				
8	DUP-018-092423		-	S	1																		X				
9	DUP-019-092423		-	S	1																		X				
10	RS-011-092423	9/24/23	1130	(BJ) SW	1																		X				

	Signature	Company	Date	Time
Relinquished	Branden Joy	Arcadis	9/24/23	1900
Received		Arcadis	9/24/23	1900
Relinquished		Arcadis	9/24/23	2130
Received		OSE	9/25/23	1047
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

2 DB

Page 1 of 3

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11	EB-H-021-092323	9/23/23	1200	S	1																		X				
12	SS-H-026-092323	9/23/23	1600	S	1																		X				
13	SS-H-027-092323	9/23/23	1605	S	1																		X				
14	EB-H-022-092423	9/24/23	1200	S	3																		X	X			
15	EB-H-023-092423		1205	S	3																		X	X			
16	EB-H-024-092423		1210	S	1																		X				
17	EB-H-025-092423		1215	S	1																		X				
18	SS-H-028-092423		1220	S	1																		X				
19	EB-F-005-092423		1600	S	1																		X				
20	EB-F-006-092423		1605	S	1																		X				

	Signature	Company	Date	Time
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21	WC-012-092223	9/22/23	1200	Wood	1																		X				
22	WC-013-092423	9/24/23	1100	wood	1																		X				

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