

2024 Annual Report

Port of Alaska, MS4 Permit 052426

Prepared for:



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2024 Annual Report
Port of Alaska, Storm Water Management Program

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Acronym List

ADEC	Alaska Department of Environmental Conservation
POA	Port of Alaska
SWMP	Storm Water Management Program
SWPP	Storm Water Pollution Prevention
APDES	Alaska Pollutant Discharge Elimination System
MOA	Municipality of Anchorage
IDDE	Illicit Discharge Detection and Elimination
PEO	Public Education and Outreach
MCM	Minimum Control Measure
USEPA	United States Environmental Protection Agency
USC	United States Code
MS4	Municipal Separate Storm Sewer System
DMR	Discharge Monitoring Report
QAPP	Quality Assurance Protection Plan
BMPs	Best Management Practices
TAH	Total Aromatic Hydrocarbons
TAqH	Total Aqueous Hydrocarbons
VOC	Volatile Organic Chemicals
AAC	Alaska Administrative Code
CGP	Construction General Permit
OWS	Oil-Water Separator
PP/GH	Pollution Prevention and Good Housekeeping
SDS	Storm drain system

1. Introduction

This Port of Alaska (POA) Storm Water Management Program (SWMP) Annual Report has been prepared for calendar year 2024, in accordance with requirements of the Alaska Pollutant Discharge Elimination System (APDES) Municipal Separate Storm Sewer System (MS4) Permit, number AKS052426, held by POA and renewed for five years as of August 2020.

This report provides a summary of the efficacy of each element or activity of the POA's SWMP for 2024 and includes a review of the following:

- Application of minimum control measures (MCMs) as identified in the MS4 Permit (see Section 3)
- Monitoring, evaluation, reporting and record-keeping activities

The purpose of this report is to:

- Provide an assessment of the efficacy of each of these elements.
- Identify any anticipated or expected changes to such implementation and activities including changes to monitoring frequency or extent, good housekeeping or BMPs.
- Evaluate the compliance of activities with the requirements of the MS4 permit.
- Identify progress towards measurable and long-term goals of the MS4 permit or the SWMP, and.
- Indicate any change in responsibility regarding geographic areas under POA or leaseholder management or changes in POA or third-party assistance towards fulfilling permit obligations.

The POA's MS4 permit (AKS052426) was renewed as of August 2020. Most of the prior elements, permit and reporting requirements remain the same as under the prior (2015-2020) MS4 permit authorization. One noteworthy change is the requirement for online 'e-reporting' of Discharge Monitoring Reports (DMRs) under the new NetDMR Reporting System managed by the U.S. Environmental Protection Agency (USEPA).

Responsibility for development and implementation of the SWMP processes and guidelines sits with the Port Director, Port Engineering Manager, leaseholders and SWPP Team members. The POA's designated representative is responsible for providing guidance, management, coordination, and implementation of the SWMP on behalf of POA and assisting POA on MS4 permitting matters as contractually requested.

2. Regulatory Authority and Compliance

This report is intended to comply with the requirements of the POA's MS4 reporting requirements under the APDES. Per 18 AAC 83, the APDES permit issuance and enforcement lies under the regulatory authority of AK Department of Environmental Conservation (ADEC). The APDES program is implemented to comply with the Clean Water Act (33 USC 1342) as regulated by the USEPA.

3. Minimum Control Measures

Section 3.0 of the MS4 permit lists the following six Minimum Control Measures (MCM) for proper storm water management and permit compliance:

- Public education and outreach.
- Public involvement and participation.
- Illicit discharge detection and elimination.
- Construction site storm water runoff control.
- Post-construction storm water management in new development and redevelopment.
- Pollution prevention and good housekeeping.

This section summarizes the implementation of these control measures during the 2024 reporting period, the effectiveness of each measure, and proposed changes (if any) for the subsequent year.

Public Education and Outreach

The Public Education and Outreach (PEO) component of the MS4 Permit was implemented in 2024. The PEO program is specifically targeted to both POA and leaseholder personnel who may have a role that could affect storm water quality, runoff, or illicit discharges and response. The PEO program focuses on illicit discharge detection and elimination (IDDE) training and is conducted annually.

This annual training typically consists of a presentation, in either video or slide format, that identifies:

- Identifies storm water regulations and regulatory authorities
- Indicates the purpose of storm water regulations and guidelines
- Identifies and defines illicit discharges, and
- Indicates methods for detecting and identifying illicit discharges to storm water systems.

Many of the POA leaseholders have contracts with an outside organization to provide this IDDE training.

In addition, IDDE elements, storm water controls, discharge events and other related topics were brought up and discussed at the quarterly SWPP Team meetings.

Another element of Public Education and Outreach under the POA MS4 permit and SWMP involves stenciling of all POA storm drain inlets on the property. In 2015, 100% of POA storm drain inlets were stenciled; however, much of this stenciling has been degraded and worn away. POA is undertaking a program to renew the stenciling. The goal is to have 50% of storm drain inlets stenciled by August 2022, and 100% of inlets stenciled by 2024. POA has stenciled 50% of inlets as of August 2022; however, ablation occurs due to heavy vehicle traffic, winter grit and other factors. POA will continue to stencil inlets to achieve the goal of having had all inlets (100%) stenciled between the years 2020 and 2024.

Public Involvement and Participation

The Public Involvement and Participation program is focused primarily on POA personnel and leaseholders. Public involvement and participation beyond the POA itself and the leaseholders are generally limited to information made available on the POA stormwater website:

<https://www.portofalaska.com/business/storm-water-management/>

This site provides public access to the following POA information related to its MS4 permit:

- List of SWPP Team members
- Prior three years' Annual MS4 Reports
- POA's current MS4 Permit
- Definitions of common storm water terms

The POA Storm Water website also indicates availability of SWPP Team meeting minutes up on request.

[Illicit Discharge Detection and Elimination](#)

The primary purpose of the SWMP under the MS4 permit is to detect, resolve, and eliminate all illicit discharges within the POA storm water system, and to prevent such discharges in the future. In addition to required compliance with 18 AAC 83 under ADEC's authority, the POA is also a branch of the Municipality of Anchorage and is thus subject to MOA Code 15.50.020. This describes 'Prohibited Acts' in the context of Watershed District Regulations, and among other such acts includes:

"(9). Pollute, contaminate, discharge, or dump any water, refuse, debris or material into any reservoir, pipeline, stream, rill, drainage, runoff, watercourse or other groundwater and surface water source or supply."

[Wet Weather Monitoring](#)

The MS4 permit requires implementation of an ongoing wet weather screening program. The purpose of this screening program is to detect the presence of illicit discharges and connections or other pollution issues relating to the storm drain system (SDS). The POA's wet weather screening program consists of collecting visual observations and testing of water quality parameters once or twice per year (depending on parameter). Wet weather monitoring requirements, parameters, and frequency are outlined in the Monitoring Program Plan and QAPP. Outfalls 001, 002, and 003 were identified in the MS4 permit as the representative outfalls requiring monitoring and sampling; there are no monitoring requirements for Outfalls 004 through 008.

Wet weather monitoring, field observations, and analytical sample collection was conducted for Outfalls 001, 002, and 003 on 22 May (Event 1) and 6 October 2024 (Event 2). These results are included in the Event 1 summaries. Field samples were collected directly from the outfall locations in 5-gallon buckets and Nalgene bottles. Samples were then transported by hand from the outfall locations to a nearby flat ground surface for ease-of-transfer into laboratory supplied analytical containers and vials. Field measurements were conducted using the remaining water in the buckets and Nalgene bottles.

Temperature, conductivity, salinity, and dissolved oxygen were measured using a YSI ProSolo handheld digital water quality meter, while pH was measured using a YSI EcoSense pH10A pen. All instruments were calibrated the day of sampling prior to field deployment. The YSI ProSolo meter was calibrated using 1,413 µS/cm conductivity standard, and by entering the current local barometric pressure. The Ecosense pH meters were three-point calibrated using pH 4.01 pH 7.00, and pH 10.01 buffer solution.

Biochemical oxygen demand, chemical oxygen demand, total suspended solids and total dissolved solids were analyzed by a certified laboratory rather than in the field.

Table 1 indicates the findings of these water quality measurements.

Table 1: Outfall Sampling, Water Quality Parameter

Parameter	Unit	Acceptable Range	Outfall 1	Outfall 2	Outfall 3
Estimated Flow	C.F./s	N/A	0.13	0.033	0.04
Temperature	Deg. C	<15 C	7.6 – 8.2	5.1 – 8.0	5.2 – 9.5
pH		6.5 – 8.5	7.54 – 7.66	7.85 – 8.04	7.01 – 7.7
Sheen		Virtually none	None	None	None ²
Dissolved Oxygen	mg/L	6.0 – 17.0	11.73	12.97	N/A
B.O.D.	mg/L	N/A	9.00	ND ³ 2.00	N/A
C.O.D.	mg/L	N/A	71.5	24.8	N/A
TSS	mg/L	N/A	4580 ¹	6	N/A
Cadmium ⁴	µg/L	5	N/A	N/A	N/A
Copper ⁴	µg/L	N/A	N/A	N/A	N/A
Lead ⁴	µg/L	N/A	N/A	N/A	N/A
Zinc ⁴	µg/L	N/A	N/A	N/A	N/A
Hardness (as CaCO ₃)	mg/L	N/A	N/A	N/A	N/A
Salinity	mg/L	N/A	N/A	N/A	N/A

1 – See description below

2 – No sheen was noted at Outfall 003, however there was a slight hydrocarbon odor at this outfall

3 – ND = 'non-detectable'; number following 'ND' indicates the lower detectable threshold for laboratory analysis

4 – Acceptable Range based on 'Drinking Water' standards from *Alaska Water Quality Criteria Manual for Toxic and Other Deleterious Organic and Inorganic Substances* (ADEC, 2022)

Results were compared to acceptable ranges or action levels presented in the MS4 APDES permit authorization, with the exception of the 'Total Suspended Solids' analysis from Outfall 001 in May, 2024. This metric was visibly elevated above even standard background levels of tidal waters carrying Cook inlet silt. Upon investigation, it was discovered that there was a separate POA project occurring within Outfall 1's collection system, involving pressure washing the pipe system prior to CCTV review. This explains the high levels of TSS – in this case, naturally occurring native silts deposited during high tides – detected during the May 2024 sampling.

The results were also used to complete the online discharge monitoring report (DMR) via the EPA's NetDMR system. As of 2021, no paper DMRs are required or submitted. The fully executed chains-of-custody are included in Appendix B.

Analytical results included testing for total aromatic hydrocarbons (TAH) and total aqueous hydrocarbons (TAQH), which are calculations based on analysis for volatile organic compounds (VOC) and polycyclic aromatic hydrocarbons. TAH and TAQH summations were compared to permit action levels which are based on 18 Alaska Administrative Code (AAC) 70, Water Quality Standards.

TAH analytical results are summarized in Tables 2 and 3 on the following page.

Table 2: Outfall Sampling Event 1, TAH Results (in µg/L)

Location (Outfall)	1	2	3
18 AAC 70 Action Level: 10 µg/L			
Benzene	ND 0.400	ND 0.400	1.45
Ethylbenzene	ND 1.00	ND 1.00	5.93
Xylenes (total)	ND 3.00	ND 3.00	8.51
Toluene	ND 1.00	ND 1.00	ND 1.00
TAH Summation	ND 2.70	ND 2.70	16.39

Table 3: Outfall Sampling Event 2, TAH Results (in µg/L)

Location (Outfall)	1	2	3
18 AAC 70 Action Level: 10 µg/L			
Benzene	ND 0.400	ND 0.400	1.13
Ethylbenzene	12.3	ND 1.00	5.09
Xylenes (total)	ND 3.00	ND 3.00	5.36
Toluene	ND 1.00	ND 1.00	ND 1.00
TAH Summation	14.5	ND 2.70	12.08

TAH concentrations were all below both the detectable limits and the action level of 10 micrograms per liter (µg/L) for Outfall 001 across both sampling events.

Outfall 002 results were completely below detectable limits for the first sampling event (May 22, 2024), however the 2nd sampling event in October 2024 found elevated levels of a single analyte, ethylbenzene, above action levels. This is most likely due to an inadvertent release of petrochemical into the system. The source is unknown, and following thaw and breakup, POA will be reviewing both the SDS001 system grounds and the early 2025 sampling results. Should elevated levels of TAH analytes once again be detected in Spring 2025, POA will work with ADEC to develop an identification and monitoring plan for SDS 001 contaminants.

Analytes for Outfall 003 indicated no presence of toluene across either sampling event. The remaining analytes ranged from 1.45 to 8.51 µg/L for Event 1, and 1.13 to 5.36 µg/L for Event 2. The TAH summation for Outfall 003 is above the action level per 18 AAC 70; to resolve this situation, POA will work with ADEC to develop a System 003 Monitoring/Sampling Plan, in order to identify the source and mitigate the TAH contaminants in 2024.

It should be noted that SGS, Inc indicated that the 2nd iteration of sample analysis was tested outside of standard holding times and should not be relied upon. Our opinion is that the results from the 2nd iteration of sampling are generally in line with the 1st iteration of 2024 sampling and earlier (2023) results.

TAQH analytical results are summarized in Tables 4 and 5, below.

Table 4: Outfall Sampling Event 1, TAqH Results (in µg/L)

Location (Outfall)	1	2	3
18 AAC 70 Action Level: 15 µg/L			
Acenaphthene	ND 0.0468	ND 0.0455	0.257
Acenaphthylene	ND 0.0468	ND 0.0455	ND 0.0455
Anthracene	ND 0.0468	ND 0.0455	0.0548
Benzo(a)Anthracene	ND 0.0468	ND 0.0455	ND 0.0455
Benzo[a]pyrene	ND 0.0187	ND 0.0182	ND 0.0182
Benzo[b]Fluoranthene	ND 0.0468	ND 0.0455	ND 0.0455
Benzo[g,h,i]perylene	ND 0.0468	ND 0.0455	ND 0.0455
Benzo[k]fluoranthene	ND 0.0468	ND 0.0455	ND 0.0455
Chrysene	ND 0.0468	ND 0.0455	ND 0.0455
Dibenzo[a,h]anthracene	ND 0.0187	ND 0.0182	ND 0.0182
Fluoranthene	ND 0.0468	ND 0.0455	0.0698
Fluorene	ND 0.0468	ND 0.0455	0.222
Indeno[1,2,3-c,d] pyrene	ND 0.0468	ND 0.0455	ND 0.0455
Naphthalene	0.104	ND 0.0909	0.796
Phenanthrene	0.0993	ND 0.0909	0.297
Pyrene	ND 0.0468	ND 0.0455	0.0565
TAqH Summation	0.5431	ND 0.3821	1.9306

Table 5: Outfall Sampling Event 2, TAqH Results (in µg/L)

Location (Outfall)	1	2	3
18 AAC 70 Action Level: 15 µg/L			
Acenaphthene	0.0861	ND 0.0455	ND 0.0463
Acenaphthylene	ND 0.0455	ND 0.0455	ND 0.0463
Anthracene	ND 0.0455	ND 0.0455	ND 0.0463
Benzo(a)Anthracene	ND 0.0455	ND 0.0455	ND 0.0463
Benzo[a]pyrene	ND 0.0182	ND 0.0182	ND 0.0185
Benzo[b]Fluoranthene	ND 0.0455	ND 0.0455	ND 0.0463
Benzo[g,h,i]perylene	ND 0.0455	ND 0.0455	ND 0.0463
Benzo[k]fluoranthene	ND 0.0455	ND 0.0455	ND 0.0463
Chrysene	ND 0.0455	ND 0.0455	ND 0.0463
Dibenzo[a,h]anthracene	ND 0.0182	ND 0.0182	ND 0.0185
Fluoranthene	ND 0.0455	ND 0.0455	ND 0.0463
Fluorene	ND 0.0455	ND 0.0455	ND 0.0463
Indeno[1,2,3-c,d] pyrene	ND 0.0455	ND 0.0455	ND 0.0463
Naphthalene	0.124	ND 0.0909	ND 0.0926
Phenanthrene	ND 0.0909	ND 0.0909	ND 0.0926
Pyrene	ND 0.0455	ND 0.0455	0.05
TAqH Summation	0.524	ND 0.3821	0.4158

TAqH concentrations were all well below the action level of 15 µg/L in samples from Outfalls 001, 002 and 003. All analytes from Outfall 002 were below detectable thresholds for both Event 1 and Event 2. Most analytes for Outfalls 001 and 003 were below detectable limits, however Acenaphthene, Anthracene, Fluoranthene, Fluorene, Naphthalene, Phenanthrene and Pyrene were detected for either or both Events 1 and 2. These detections were all below actionable limits both individually and cumulatively.

All the above water quality monitoring information may be found on the DMRs in Appendix B. Copies of complete analytical results are available upon request.

Dry Weather Screening

The MS4 permit requires implementation of an ongoing dry weather screening program. The purpose of this screening program is to detect the presence of illicit connections and discharges or other water quality issues affecting the Port's SDS. The POA's dry weather screening program consists of:

- An awareness program for POA and leaseholder personnel.
- Outfall screening efforts.
- Regular site-wide visual inspections.

No dry weather analytical testing was conducted on any of the outfalls during 2024.

The main idea behind dry weather screening is to determine whether illicit discharges are occurring, in theory made easier because dry weather should include no flow. ***However, given the high tidal range of Cook Inlet, the POA's geographical position within this tidal range, and the extent of the POA drainage network, our observations start with the fact that even after the low tide, the POA storm drain system continues to discharge tidal water that is flushed up through the system twice daily.*** The tidal extent is identifiable based on the presence of silts and fines within the SDS matching the sediment in Cook Inlet.

It is worth noting that, as part of the program of storm drain system improvements, POA is introducing tide valves, which may affect or curtail the extent of inundation into and up the SDS network during regular high tides.

Outfalls 001, 002, and 003 are visually screened at least once per year during a period of relatively dry weather close to low tide. Outfall screening is aimed at detecting illicit discharges and/or connections via the presence of solid waste, petroleum sheen, and/or unusual odors. The general condition and functionality of each outfall is noted to ensure the system is discharging appropriately. As required by the MS4 permit, each outfall was observed within the term of the permit and documented accordingly.

On 25 April, 15 May, and 30 July 2024, outfalls were visually inspected at or near low tide. All inspections included Outfalls 001, 002 and 003. The 15 May inspection included additional outfalls (004 through 008). Outfall 007 is not observable, as it is hidden behind and below fill material.

All observed outfalls appeared to be functional, adequately discharging storm water and/or tidal water from the system. Outfall 008 is in poor physical condition, with visible degradation of the corrugated pipe; however, it is still discharging storm water appropriately. Low to moderate, continuous flows of clear or slightly turbid water with no sheen were observed. A very slight hydrocarbon odor was detectable at Outfall 003; this outfall serves the storm system running below and through much of the tank farm area along the southern extent of POA property. There is also likely residual ground and groundwater

contamination in this area, and the pipe seams of the storm water system may be aging and allowing groundwater penetration.

As of late 2023, Outfall 002 is in a new location, approximately 150 feet south of the original outfall pipe which is still in place and visible.

Site-wide visual inspections were performed in 2024 during relatively dry weather periods to look for evidence of illicit discharges, poor housekeeping, storm water control effectiveness and to confirm whether POA and leaseholders are adhering to the SWMP. The site-wide visual inspection consists of inspecting exterior areas across the entire Port (i.e., excluding buildings and interior spaces). The site-wide visual inspection focuses on identifying illicit discharges, solid waste accumulation, identifying onsite and off-site sources of potential pollution, and checking for prohibited outdoor work activities. A total of two unannounced inspections were conducted throughout 2024.

In general, the Port facilities are maintained in good, clean condition. The issue noted most frequently during site inspections is the accumulation of debris, generally consistent with road grit and traction sand. This accumulation is particularly visible in and around snow storage areas and areas where winter grit had accumulated and not been appropriately collected and stored for disposal or reuse. Good housekeeping, BMP maintenance and post-winter cleanup of sand and grit were mentioned and reiterated at SWMP Team quarterly meetings.

Construction Site Storm Water Runoff Control

The Construction Site Storm Water Runoff Control program was successfully implemented in 2024. For active construction projects disturbing greater than one acre within the jurisdiction of the Port, the Contractor shall obtain authorization under the APDES Construction General Permit (CGP). Projects disturbing greater than 10,000 square feet, but less than one acre, must coordinate improvements with the Port to avoid, minimize, and mitigate adverse impacts to water quality. A Construction Site Form must be prepared by the Contractor and signed by the Port before construction may commence.

The Port reviewed one construction Storm Water Pollution Prevention Plan (SWPPP) for a construction/demolition project in 2024 to ensure compliance with the Port's SWMP. Coverage under the CGP was required for Port construction projects associated with storm drain outfall repairs and the Northern Expansion Stabilization projects.

Unannounced site inspections of Port facilities were conducted on an intermittent basis throughout 2024. Active construction projects were observed for general compliance with storm water regulations and informally inspected at least once during active construction.

Post-Construction Storm Water Management (New Development / Redevelopment)

The Post-Construction Storm Water Management program for new development or redevelopment was implemented in 2024. POA requires a plan review for any proposed permanent storm water conveyance, drainage or treatment designs or changes. POA must receive, review, and approve a Post-Construction Site Form, prepared by the relevant contractor, prior to allowing any such construction to proceed.

The responsible party for any such construction project must prepare a post-construction design for permanent storm water controls as applicable. This design should include plans, specifications, design details and descriptions of BMPs that will be implemented to minimize or prevent discharge of pollutants to the POA's MS4 system following completion of construction.

Pollution Prevention and Good Housekeeping

The POA covers approximately 220 acres in total. Of that, approximately 81 acres are managed under long-term lease by the leaseholders, including Tote, Matson, Marathon, Delta Western, AFSC/Menzies, and ABI/AS&G. Another 31 acres is used for temporary staging. The POA is directly responsible for public areas not under lease agreement, while the leaseholders are responsible for the 81 acres under lease. A description of leaseholder pollution prevention and good housekeeping (PP/GH) and storm water controls can be found in Section 3.0 of the SWMP.

Table 6 summarizes the PP/GH measures typical of each land use type under POA responsibility.

Table 6: Pollution Prevention and Good Housekeeping Elements per POA Area

POA Area Type	Applicable Pollution Prevention / Good Housekeeping Measures
Roads / streets	POA is responsible for maintaining and cleaning public drive access across the POA, and implements grit placement in winter as well as street sweeping, washing, and vacuuming as appropriate to minimize and remove accumulated grit, dust, and debris
Parking lots	POA implements ongoing street sweeping, washing, and vacuuming procedures to minimize the accumulation of suspended solids in storm water and to reduce air pollution. This effort is prevalent during spring breakup.
Maintenance / storage areas	POA maintenance and storage areas are controlled, covered areas where traffic patterns are not a hazard. Materials are stored within a secondary containment unit or above a sealed ground surface to avoid incidental contact with surface water runoff.
Waste transfer stations	Solid wastes are disposed of in non-leaking, lidded dumpsters to prevent refuse from blowing away or precipitation from entering and corroding the dumpsters. Any solid waste container leaks are contained so that the leakage and/or solid waste will not enter the SDS. Any dumpster found to be leaking is repaired or replaced immediately. Solid waste containers are located at least 50 feet from the nearest storm drain inlet.
Snow storage areas	Snow storage sites comply with ADEC snow storage site requirements and guidelines. Dumping, pushing, placing, or blowing snow into any drainage ditch or storm drain inlet is strictly prohibited.
Fleet maintenance shops	POA maintenance and fabrication activities for vehicle fleet and equipment are performed inside or under cover unless it is not possible to do so. Primary fleet maintenance areas incorporate a contained trap for grit and other pollutants. Outdoor storage areas have materials stored within secondary containment units or above a sealed ground surface to avoid incidental contact with surface water runoff.
Sand / salt storage areas	Sand is stored in a large, prefabricated tent to shield the stockpile from storm (wind or rain) erosion and sedimentation. The tent door is opened for import of new sand or removal of sand for winter placement. The amount removed is limited to the amount needed for application. When no sand is being loaded or removed from the hut, the doors are shut.
Ditches, culverts, catch basins, storm drains and outfalls	POA maintains an ongoing program of cleaning, maintenance, and repair of ditches, catch basins, culverts, and outfalls. Following a comprehensive MS4 system review, POA is undertaking MS4 system repairs and improvements. POA will continue to monitor, inspect, evaluate, and improve the SDS.

Pollution prevention and housekeeping of areas under lease, including parking, drive lanes, staging and material storage, vehicle maintenance, and solid waste storage are the responsibility of the leaseholder. Areas serving as bulk fuel or contaminant storage have additional pollution prevention requirements.

Effectiveness of Controls

A summary of the efficacy of BMPs, source reduction and elimination measures, and source control measures implemented by POA and leaseholders within the MS4 coverage area may be found in the tables in Appendix C. These BMPs have been installed and implemented in accordance with the SWMP. This

review also identifies discrepancies between current measures and controls enacted by POA or leaseholders and those required under the SWMP. Any such discrepancy noted will include a discussion of each discrepancy and recommendations on how to correct or ameliorate the discrepancy so as to bring each facility into compliance with the SWMP. If no discrepancy currently exists, the Port or Stakeholder facility is not mentioned here.

Maintenance Schedules and Records

POA and each leaseholder is responsible for adhering to their own facility-specific maintenance schedules, and for documenting and retaining associated maintenance records. These records are not included in this report but can be made available upon request to POA. To improve maintenance record tracking, retention, and availability, an Oil-Water Separator (OWS) and Sump Inspection Plan along with associated maintenance log were created in March 2017. This Plan and Inspection Log is retained in the Port Maintenance Building.

Long-Term Inspection Procedures

Long-term inspection procedures include a preventative maintenance program and regular inspections of the POA and leaseholder areas. The preventive maintenance program involves inspections of components of the storm water management system. The following systems and equipment are inspected at POA and leaseholder facilities:

1. **Storm drain network.** The whole system within the MS4 boundary is inspected annually, at a minimum. In addition, the system is inspected immediately when impeded flow conditions are detected. Debris that has collected in ditches, swales and catch basins is removed periodically throughout the year, although this activity is most frequent following spring melt and runoff.
2. **Fuel storage, refueling areas, and tank truck loading racks.** These features are inspected periodically and no less than annually. Inspections in these areas look for system integrity issues such as leaks, cracking, corrosion, or other wear or physical damage that can pose an increased risk of spill or indicate reduced containment capacity. Additional contaminant spill prevention requirements apply to these areas. If contaminants – such as fuels – are noted to have escaped into secondary containment, or if an obvious risk of contaminant release or secondary containment failure is noted, the facility in question will be immediately closed off and shut down until corrective action is taken and completed.
3. **Oil-water separators.** These features are inspected frequently by POA maintenance personnel. Depending upon the condition when inspected, these features are cleaned and services as necessary to maintain functionality and prevent overloading. If critical integrity concerns are identified, the OWS is removed from use and repairs or other corrective action is implemented immediately.

Annual Evaluation

The PP/GH MCM was successfully implemented in 2024. POA and all leaseholders followed PP/GH measures outlined in the SWMP. The measurable PP/GH goals proposed for POA are on track for achievement according to the schedule in Table 7.

Table 7: Storm Water Management Program Measurable Goals, by MCM

Minimum Control Measure and Measurable Goal	Attainment Date
Public Education and Outreach	
- <i>POA Staff and Leaseholder training</i>	31 December 2024
Public Involvement and Participation	
- <i>Maintain storm water management section on POA website</i>	31 December 2024 (ongoing)
- <i>Renew storm drain stenciling coverage (50% of inlets)</i>	31 August 2022
- <i>Renew storm drain stenciling coverage (100% of inlets)</i>	31 August 2023
Illicit Discharge Detection and Elimination	
- <i>Conduct wet weather water quality monitoring</i>	6 October 2024 (ongoing)
- <i>Conduct dry weather outfall screening</i>	15 May 2024 (ongoing)
- <i>Identify water quality baseline for surface water draining into POA system</i>	6 October 2024 (ongoing)
- <i>Identify locations of groundwater contaminant penetration into POA system</i>	6 October 2024 (ongoing)
- <i>Complete comprehensive survey/assessment of storm system</i>	21 October 2021
Construction site Storm Water Runoff	
- <i>Implement the POA Construction Site Runoff Control Program</i>	31 December 2024 (ongoing)
Post-Construction Storm Water Management (Re- or New Development)	
- <i>Implement the POA Post-Construction Runoff Program</i>	31 December 2024 (ongoing)
Pollution Prevention and Good Housekeeping	
- <i>Assess storm drain network for priority maintenance needs</i>	31 December 2024 (ongoing)
- <i>Develop a comprehensive maintenance schedule for the storm system</i>	21 October 2021
- <i>Incorporate maintenance and IDDE tracking into the POA's GIS database</i>	Ongoing

The storm drain network was thoroughly reviewed in 2021 and a comprehensive, systemwide improvements schedule for the Port facilities is underway. This comprehensive redevelopment began in late 2023 with the design of SDS #1; this system is expected to be in reconstruction in 2025. Remaining SDSs are planned for design and repair implementation over subsequent years. The Port is completing their integration of facility systems and records into a GIS database system. An ongoing goal is to incorporate MCMs under the MS4 permit into this new tracking system. The Port considers this plan to be effective and in compliance with the current MS4 permit; no changes to the program itself or associated measurable goals are proposed for the upcoming year.

4. Monitoring, Evaluation, Reporting and Record-Keeping

Monitoring Program Plan and QAPP

Results of dry and wet weather monitoring efforts have been presented in the preceding sections and indicate that monitoring and screening programs are effective at detecting illicit discharges and/or

connections or other water quality impacts. Both the MS4 Monitoring Program Plan and QAPP are being updated in early 2024 to ensure compliance with the reissued MS4 permit.

Evaluation of Overall Program Effectiveness

A review of the adequacy and efficacy of the overall Storm Water Management Program will be provided in this section of current and future Annual Reports. POA has had a storm water management plan in effect since 1995, when the MS4 permit was first issued by the USEPA under the National Pollutant and Discharge Elimination System (now APDES). As a result, protection of storm water quality and prevention of sedimentation, erosion and contaminant pollution has been a priority for POA for over 25 years. BMPs, structural controls, education programs, and maintenance practices to protect water quality have always been a common goal amongst the Port and Stakeholders. Key elements of the 2024 reporting period were detailed in Section 3.0.

Reporting

Spill Reporting

Table 8, below, provides a summary of all reported spills, leaks and accidental discharges of pollutants that occurred within the POA's boundary during 2024.

Table 8: Notable Spills & Leaks Reported, 1 January 2024 – 31 December 2024

Facility	Date	Type	Amount	Description
POA	3/28/24	Coolant	< 5 gal.	Lynden truck overheating and leaking coolant and water. Lynden was notified and led cleanup
	7/26/24	Unknown petroleum	< 5 gal.	Product was found in the POAVY containment area draining into SDS 004 and out to Cook Inlet. POA and consultant staff began investigating potential sources of product in POAVY.
TOTE	1/14/24	Coolant	1 gal.	United Freight truck had a leak in coolant line. Sea Star called for response - collected affected snow/ice for disposal
	2/27/24	Diesel fuel	~ 20 gal.	Damage to a fuel tank. Sea Star responded - deployed absorbent material and disposed of in shop
	3/26/24	Hydraulic fluid	0.5 gal.	A faulty hydraulic line leaked. Sea Star responded - absorbent material and standard disposal
	4/2/24	Fuel	~ 3 gal.	A fuel tank was punctured. Sea Star was contacted - absorbent material set down
	9/9/24	Diesel fuel	1 gal.	An air bubble (presumably) caused a small spray during truck fueling. Sea Star and Republic Services responded - absorbent material and a vac truck
	9/11/24	Diesel fuel	~ 2 gal.	Source unknown, assumed to be a loose cap on a carrier truck. Sea Star and Republic Services responded - absorbent material and a vac truck
	10/10/24	Hydraulic fluid	8 oz.	Car carrier blew a line. Sea Star and TOTE responded - spill dry, oil sheets / booms

	10/17/24	Hydraulic fluid	~ 2 gal.	A hustler blew a line. Sea Star responded - spill dry and a sweeper
	11/1/24	Coolant	< 5 gal.	WBI driver had a line failure. TOTE and Sea Star responded - absorbent material
Matson	Feb-24	Coolant	< 10 gal.	Broken hose clamp. Resolution unknown
	Mar-24	Coolant	3 gal.	Radiator hose blew. Resolution unknown
	Jul-24	Hydraulic fluid	< 5 gal.	Relief plug on tilt ram blew,. Plug was replaced. Resolution unknown
	Nov-24	Diesel	0.5 gal.	Fuel filter cracked. Resolution unknown
	Nov-24	Coolant	5 gal.	Coolant line had a leak. Resolution unknown
	Nov-24	Diesel	5 gal.	Pin hole in fuel filter. Resolution unknown
	Dec-24	Coolant	1 gal.	Bad line on heater control valve. Resolution unknown
Marathon	1/26/24	Gasoline	14 gal.	Spill at truck rack, Terminal 2. 6.5 gallons release to snow/ice outside of containment, 0.5 gallons on asphalt. Resolution unknown, ADEC notified
AFSC/ Menzies	No spills recorded for 2024			
ABI	<i>No spill data received from ABI for 2024</i>			

This table is updated annually. Any spills, leaks or discharges not reported to POA or observed by POA personnel will not be included in Table 8 nor in this report; any such discharges would be noncompliant with terms of the MS4 permit and the leaseholder agreements with POA.

Annual Reporting

Annual reports will be prepared each for each reporting period (calendar year) to document MS4 compliance methods and efficacy for that reporting period. These summary reports will include supporting documentation, including the SWMP. These reports will be submitted to ADEC each year by February 15 of the year following the reporting period, will be posted on the POA's website, and will be distributed to all SWPP Team members and leaseholders.

Record-Keeping

The POA maintains records and copies of all relevant and pertinent reporting materials under the MS4 permit, including:

- Copies of each year's DMRs
- The current APDES permit (AKS052426)
- SWPP Team Quarterly Meeting minutes
- Records of data used to complete the annual reporting
- Data used to complete the APDES permit application
- Data used to generate the SWMP

These records will be retained for a period of at least three years, or for the term of the current 5-year permit (2020-2025), whichever is longer. These records will be made available to ADEC or the public if requested to do so in writing.

Appendix A. Site Map



- | | | | |
|-------------------------------|-----------------------|--------------------------|--------------------------------------|
| ● 2024 Sampling Location | --- Storm Water Ditch | ABI | Manson Construction Company |
| ● Storm Water Outfall | --- MS4 Boundary | ACS | Menzies Aviation |
| ● MOA Storm Water Outfall | Leases Current | AT&T | North Star Terminal & Stevedore, LLC |
| □ Storm Water Catchment Basin | Matson | Crowley Fuels LLC | PRL |
| — Storm Water Pipe | TOTE | Delta Western | Tesoro |
| | | Intertek USA Caleb Brett | |

Port of Alaska MS4 Area and Outfall Locations



Appendix B. Analytical Results and Chain of Custody Forms



Laboratory Report of Analysis

To: Michael Baker International
3900 C St Suite 900
Anchorage, AK 99503

Report Number: **1242307**

Client Project: **2024 POA Stormwater**

Dear Pat Whitesell,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Justin Nelson
2024.06.06
21:06:18 -08'00'

Justin Nelson
Project Manager
Justin.Nelson@sgs.com

Date



Case Narrative

SGS Client: **Michael Baker International**

SGS Project: **1242307**

Project Name/Site: **2024 POA Stormwater**

Project Contact: **Pat Whitesell**

Refer to sample receipt form for information on sample condition.

POA 001 (1242307001) PS

5210B - BOD - Sample DO result is under-depleted. BOD results are estimated.

POA 001 (1242307004) PS

8270E SIM - PAH surrogate recoveries for 2-methylnaphthalene-d10 and fluoranthene-d10 do not meet QC criteria.

Sample was re-extracted outside of hold time and the results confirm. The in-hold data is reported.

1242267001DUP (1765187) DUP

2540D - Total Suspended Solids - Sample duplicate RPD was outside of acceptance limits. The difference between sample and duplicate results is less than the LOQ.

1242299001DUP (1765220) DUP

2540D - Total Suspended Solids - Sample duplicate RPD was outside of acceptance limits. Refer to LCS/LCSD RPD for batch precision.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Print Date: 06/05/2024 3:47:45PM

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270E, 8270E-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 3/4 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
POA 001	1242307001	05/22/2024	05/23/2024	Water (Surface, Eff., Ground)
POA 002	1242307002	05/22/2024	05/23/2024	Water (Surface, Eff., Ground)
POA 003	1242307003	05/22/2024	05/23/2024	Water (Surface, Eff., Ground)
POA 001	1242307004	05/22/2024	05/23/2024	Water (Surface, Eff., Ground)
POA 002	1242307005	05/22/2024	05/23/2024	Water (Surface, Eff., Ground)
Trip Blank	1242307006	05/22/2024	05/23/2024	Water (Surface, Eff., Ground)

<u>Method</u>	<u>Method Description</u>
EPA 602/624.1	602 Aromatics by 624 (W)
8270E SIM LV (PAH)	8270 PAH SIM GC/MS LV
SM21 5210B	Biochemical Oxygen Demand SM21 5210B
EPA 410.4	Chemical Oxygen Demand
SM21 2540D	Total Suspended Solids SM20 2540D

Print Date: 06/05/2024 3:47:49PM

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Detectable Results Summary

Client Sample ID: **POA 001**
Lab Sample ID: 1242307001

Microbiology Laboratory Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Biochemical Oxygen Demand	9.00	mg/L
Chemical Oxygen Demand	71.5	mg/L
Total Suspended Solids	4580	mg/L

Client Sample ID: **POA 002**
Lab Sample ID: 1242307002

Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Chemical Oxygen Demand	24.8	mg/L
Total Suspended Solids	6.00	mg/L

Client Sample ID: **POA 003**
Lab Sample ID: 1242307003

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Acenaphthene	0.257	ug/L
Anthracene	0.0548	ug/L
Fluoranthene	0.0698	ug/L
Fluorene	0.222	ug/L
Naphthalene	0.796	ug/L
Phenanthrene	0.297	ug/L
Pyrene	0.0565	ug/L
Benzene	1.45	ug/L
Ethylbenzene	5.93	ug/L
P & M -Xylene	8.01	ug/L

Volatile GC/MS

Client Sample ID: **POA 001**
Lab Sample ID: 1242307004

Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Acenaphthene	0.0637	ug/L
Naphthalene	0.104	ug/L
Phenanthrene	0.0993	ug/L



Results of POA 001

Client Sample ID: **POA 001**
Client Project ID: **2024 POA Stormwater**
Lab Sample ID: 1242307001
Lab Project ID: 1242307

Collection Date: 05/22/24 16:15
Received Date: 05/23/24 10:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	9.00		2.00	2.00	mg/L	1		05/23/24 18:16

Batch Information

Analytical Batch: BOD7713
Analytical Method: SM21 5210B
Analyst: M.A
Analytical Date/Time: 05/23/24 18:16
Container ID: 1242307001-D

Print Date: 06/05/2024 3:47:53PM

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Results of POA 001

Client Sample ID: **POA 001**
Client Project ID: **2024 POA Stormwater**
Lab Sample ID: 1242307001
Lab Project ID: 1242307

Collection Date: 05/22/24 16:15
Received Date: 05/23/24 10:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400	U	0.400	0.120	ug/L	1		06/04/24 22:18
Ethylbenzene	1.00	U	1.00	0.310	ug/L	1		06/04/24 22:18
o-Xylene	1.00	U	1.00	0.310	ug/L	1		06/04/24 22:18
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		06/04/24 22:18
Toluene	1.00	U	1.00	0.310	ug/L	1		06/04/24 22:18

Surrogates

1,2-Dichloroethane-D4 (surr)	95.7		81-118		%	1		06/04/24 22:18
4-Bromofluorobenzene (surr)	100		85-114		%	1		06/04/24 22:18
Toluene-d8 (surr)	99.8		89-112		%	1		06/04/24 22:18

Batch Information

Analytical Batch: VMS23286
Analytical Method: EPA 602/624.1
Analyst: JY
Analytical Date/Time: 06/04/24 22:18
Container ID: 1242307001-A

Prep Batch: VXX41243
Prep Method: SW5030B
Prep Date/Time: 06/04/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 06/05/2024 3:47:53PM

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Results of POA 001

Client Sample ID: **POA 001**
Client Project ID: **2024 POA Stormwater**
Lab Sample ID: 1242307001
Lab Project ID: 1242307

Collection Date: 05/22/24 16:15
Received Date: 05/23/24 10:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Chemical Oxygen Demand	71.5		20.0	6.20	mg/L	1		05/24/24 14:10

Batch Information

Analytical Batch: WSP5881
Analytical Method: EPA 410.4
Analyst: ACF
Analytical Date/Time: 05/24/24 14:10
Container ID: 1242307001-F

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	4580		100	31.0	mg/L	1		05/28/24 11:17

Batch Information

Analytical Batch: STS7910
Analytical Method: SM21 2540D
Analyst: AJP
Analytical Date/Time: 05/28/24 11:17
Container ID: 1242307001-E

Print Date: 06/05/2024 3:47:53PM

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Results of POA 002

Client Sample ID: **POA 002**
Client Project ID: **2024 POA Stormwater**
Lab Sample ID: 1242307002
Lab Project ID: 1242307

Collection Date: 05/22/24 16:40
Received Date: 05/23/24 10:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Microbiology Laboratory

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Biochemical Oxygen Demand	2.00	U	2.00	2.00	mg/L	1		05/23/24 18:16

Batch Information

Analytical Batch: BOD7713
Analytical Method: SM21 5210B
Analyst: M.A
Analytical Date/Time: 05/23/24 18:16
Container ID: 1242307002-D

Print Date: 06/05/2024 3:47:53PM

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Results of POA 002

Client Sample ID: **POA 002**
Client Project ID: **2024 POA Stormwater**
Lab Sample ID: 1242307002
Lab Project ID: 1242307

Collection Date: 05/22/24 16:40
Received Date: 05/23/24 10:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400	U	0.400	0.120	ug/L	1		06/04/24 22:33
Ethylbenzene	1.00	U	1.00	0.310	ug/L	1		06/04/24 22:33
o-Xylene	1.00	U	1.00	0.310	ug/L	1		06/04/24 22:33
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		06/04/24 22:33
Toluene	1.00	U	1.00	0.310	ug/L	1		06/04/24 22:33

Surrogates

1,2-Dichloroethane-D4 (surr)	99.5		81-118		%	1		06/04/24 22:33
4-Bromofluorobenzene (surr)	97.1		85-114		%	1		06/04/24 22:33
Toluene-d8 (surr)	99.2		89-112		%	1		06/04/24 22:33

Batch Information

Analytical Batch: VMS23286
Analytical Method: EPA 602/624.1
Analyst: JY
Analytical Date/Time: 06/04/24 22:33
Container ID: 1242307002-A

Prep Batch: VXX41243
Prep Method: SW5030B
Prep Date/Time: 06/04/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 06/05/2024 3:47:53PM

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Results of POA 002

Client Sample ID: **POA 002**
Client Project ID: **2024 POA Stormwater**
Lab Sample ID: 1242307002
Lab Project ID: 1242307

Collection Date: 05/22/24 16:40
Received Date: 05/23/24 10:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Chemical Oxygen Demand	24.8		20.0	6.20	mg/L	1		05/24/24 14:10

Batch Information

Analytical Batch: WSP5881
Analytical Method: EPA 410.4
Analyst: ACF
Analytical Date/Time: 05/24/24 14:10
Container ID: 1242307002-F

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	6.00		1.00	0.310	mg/L	1		05/28/24 11:17

Batch Information

Analytical Batch: STS7910
Analytical Method: SM21 2540D
Analyst: AJP
Analytical Date/Time: 05/28/24 11:17
Container ID: 1242307002-E

Print Date: 06/05/2024 3:47:53PM

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Results of POA 003

Client Sample ID: **POA 003**
Client Project ID: **2024 POA Stormwater**
Lab Sample ID: 1242307003
Lab Project ID: 1242307

Collection Date: 05/22/24 17:10
Received Date: 05/23/24 10:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polynuclear Aromatics GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.257		0.0455	0.0136	ug/L	1		05/29/24 15:02
Acenaphthylene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:02
Anthracene	0.0548		0.0455	0.0136	ug/L	1		05/29/24 15:02
Benzo(a)Anthracene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:02
Benzo[a]pyrene	0.0182	U	0.0182	0.00564	ug/L	1		05/29/24 15:02
Benzo[b]Fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:02
Benzo[g,h,i]perylene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:02
Benzo[k]fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:02
Chrysene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:02
Dibenzo[a,h]anthracene	0.0182	U	0.0182	0.00564	ug/L	1		05/29/24 15:02
Fluoranthene	0.0698		0.0455	0.0136	ug/L	1		05/29/24 15:02
Fluorene	0.222		0.0455	0.0136	ug/L	1		05/29/24 15:02
Indeno[1,2,3-c,d] pyrene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:02
Naphthalene	0.796		0.0909	0.0282	ug/L	1		05/29/24 15:02
Phenanthrene	0.297		0.0909	0.0282	ug/L	1		05/29/24 15:02
Pyrene	0.0565		0.0455	0.0136	ug/L	1		05/29/24 15:02
Surrogates								
2-Methylnaphthalene-d10 (surr)	55.4		38-100		%	1		05/29/24 15:02
Fluoranthene-d10 (surr)	75.8		30-111		%	1		05/29/24 15:02

Batch Information

Analytical Batch: XMS14262
Analytical Method: 8270E SIM LV (PAH)
Analyst: C.M
Analytical Date/Time: 05/29/24 15:02
Container ID: 1242307003-D

Prep Batch: XXX49509
Prep Method: SW3535A
Prep Date/Time: 05/28/24 11:25
Prep Initial Wt./Vol.: 275 mL
Prep Extract Vol: 1 mL

Print Date: 06/05/2024 3:47:53PM

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Results of POA 003

Client Sample ID: **POA 003**
Client Project ID: **2024 POA Stormwater**
Lab Sample ID: 1242307003
Lab Project ID: 1242307

Collection Date: 05/22/24 17:10
Received Date: 05/23/24 10:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	1.45		0.400	0.120	ug/L	1		06/04/24 22:48
Ethylbenzene	5.93		1.00	0.310	ug/L	1		06/04/24 22:48
o-Xylene	1.00	U	1.00	0.310	ug/L	1		06/04/24 22:48
P & M -Xylene	8.01		2.00	0.620	ug/L	1		06/04/24 22:48
Toluene	1.00	U	1.00	0.310	ug/L	1		06/04/24 22:48
Surrogates								
1,2-Dichloroethane-D4 (surr)	98.5		81-118		%	1		06/04/24 22:48
4-Bromofluorobenzene (surr)	98.5		85-114		%	1		06/04/24 22:48
Toluene-d8 (surr)	101		89-112		%	1		06/04/24 22:48

Batch Information

Analytical Batch: VMS23286
Analytical Method: EPA 602/624.1
Analyst: JY
Analytical Date/Time: 06/04/24 22:48
Container ID: 1242307003-A

Prep Batch: VXX41243
Prep Method: SW5030B
Prep Date/Time: 06/04/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 06/05/2024 3:47:53PM

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Results of POA 001

Client Sample ID: **POA 001**
Client Project ID: **2024 POA Stormwater**
Lab Sample ID: 1242307004
Lab Project ID: 1242307

Collection Date: 05/22/24 16:15
Received Date: 05/23/24 10:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polynuclear Aromatics GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.0637		0.0468	0.0140	ug/L	1		05/29/24 15:23
Acenaphthylene	0.0468	U	0.0468	0.0140	ug/L	1		05/29/24 15:23
Anthracene	0.0468	U	0.0468	0.0140	ug/L	1		05/29/24 15:23
Benzo(a)Anthracene	0.0468	U	0.0468	0.0140	ug/L	1		05/29/24 15:23
Benzo[a]pyrene	0.0187	U	0.0187	0.00581	ug/L	1		05/29/24 15:23
Benzo[b]Fluoranthene	0.0468	U	0.0468	0.0140	ug/L	1		05/29/24 15:23
Benzo[g,h,i]perylene	0.0468	U	0.0468	0.0140	ug/L	1		05/29/24 15:23
Benzo[k]fluoranthene	0.0468	U	0.0468	0.0140	ug/L	1		05/29/24 15:23
Chrysene	0.0468	U	0.0468	0.0140	ug/L	1		05/29/24 15:23
Dibenzo[a,h]anthracene	0.0187	U	0.0187	0.00581	ug/L	1		05/29/24 15:23
Fluoranthene	0.0468	U	0.0468	0.0140	ug/L	1		05/29/24 15:23
Fluorene	0.0468	U	0.0468	0.0140	ug/L	1		05/29/24 15:23
Indeno[1,2,3-c,d] pyrene	0.0468	U	0.0468	0.0140	ug/L	1		05/29/24 15:23
Naphthalene	0.104		0.0936	0.0290	ug/L	1		05/29/24 15:23
Phenanthrene	0.0993		0.0936	0.0290	ug/L	1		05/29/24 15:23
Pyrene	0.0468	U	0.0468	0.0140	ug/L	1		05/29/24 15:23
Surrogates								
2-Methylnaphthalene-d10 (surr)	13.1	*	38-100		%	1		05/29/24 15:23
Fluoranthene-d10 (surr)	8.1	*	30-111		%	1		05/29/24 15:23

Batch Information

Analytical Batch: XMS14262
Analytical Method: 8270E SIM LV (PAH)
Analyst: C.M
Analytical Date/Time: 05/29/24 15:23
Container ID: 1242307004-A

Prep Batch: XXX49509
Prep Method: SW3535A
Prep Date/Time: 05/28/24 11:25
Prep Initial Wt./Vol.: 267 mL
Prep Extract Vol: 1 mL

Print Date: 06/05/2024 3:47:53PM

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Results of POA 002

Client Sample ID: **POA 002**
Client Project ID: **2024 POA Stormwater**
Lab Sample ID: 1242307005
Lab Project ID: 1242307

Collection Date: 05/22/24 16:40
Received Date: 05/23/24 10:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polynuclear Aromatics GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:44
Acenaphthylene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:44
Anthracene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:44
Benzo(a)Anthracene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:44
Benzo[a]pyrene	0.0182	U	0.0182	0.00564	ug/L	1		05/29/24 15:44
Benzo[b]Fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:44
Benzo[g,h,i]perylene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:44
Benzo[k]fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:44
Chrysene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:44
Dibenzo[a,h]anthracene	0.0182	U	0.0182	0.00564	ug/L	1		05/29/24 15:44
Fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:44
Fluorene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:44
Indeno[1,2,3-c,d] pyrene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:44
Naphthalene	0.0909	U	0.0909	0.0282	ug/L	1		05/29/24 15:44
Phenanthrene	0.0909	U	0.0909	0.0282	ug/L	1		05/29/24 15:44
Pyrene	0.0455	U	0.0455	0.0136	ug/L	1		05/29/24 15:44
Surrogates								
2-Methylnaphthalene-d10 (surr)	60.4		38-100		%	1		05/29/24 15:44
Fluoranthene-d10 (surr)	79.7		30-111		%	1		05/29/24 15:44

Batch Information

Analytical Batch: XMS14262
Analytical Method: 8270E SIM LV (PAH)
Analyst: C.M
Analytical Date/Time: 05/29/24 15:44
Container ID: 1242307005-A

Prep Batch: XXX49509
Prep Method: SW3535A
Prep Date/Time: 05/28/24 11:25
Prep Initial Wt./Vol.: 275 mL
Prep Extract Vol: 1 mL

Print Date: 06/05/2024 3:47:53PM

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Results of Trip Blank

Client Sample ID: **Trip Blank**
Client Project ID: **2024 POA Stormwater**
Lab Sample ID: 1242307006
Lab Project ID: 1242307

Collection Date: 05/22/24 16:15
Received Date: 05/23/24 10:35
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400	U	0.400	0.120	ug/L	1		06/04/24 21:32
Ethylbenzene	1.00	U	1.00	0.310	ug/L	1		06/04/24 21:32
o-Xylene	1.00	U	1.00	0.310	ug/L	1		06/04/24 21:32
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		06/04/24 21:32
Toluene	1.00	U	1.00	0.310	ug/L	1		06/04/24 21:32

Surrogates

1,2-Dichloroethane-D4 (surr)	96.2		81-118		%	1		06/04/24 21:32
4-Bromofluorobenzene (surr)	99.2		85-114		%	1		06/04/24 21:32
Toluene-d8 (surr)	101		89-112		%	1		06/04/24 21:32

Batch Information

Analytical Batch: VMS23286
Analytical Method: EPA 602/624.1
Analyst: JY
Analytical Date/Time: 06/04/24 21:32
Container ID: 1242307006-A

Prep Batch: VXX41243
Prep Method: SW5030B
Prep Date/Time: 06/04/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 06/05/2024 3:47:53PM

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Method Blank

Blank ID: MB for HBN 1884936 [BOD/7713]
Blank Lab ID: 1764682

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1242307001, 1242307002

Results by SM21 5210B

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>
Biochemical Oxygen Demand	2.00U	2.00	2.00	2.00	mg/L

Batch Information

Analytical Batch: BOD7713
Analytical Method: SM21 5210B
Instrument:
Analyst: M.A
Analytical Date/Time: 5/23/2024 11:48:00AM

Print Date: 06/05/2024 3:47:55PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1242307 [BOD7713]
Blank Spike Lab ID: 1764683
Date Analyzed: 05/23/2024 11:48

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1242307001, 1242307002

Results by SM21 5210B

Parameter	Blank Spike (mg/L)			CL
	Spike	Result	Rec (%)	
Biochemical Oxygen Demand	198	200	101	(84.6-115.4

Batch Information

Analytical Batch: **BOD7713**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **M.A**

Print Date: 06/05/2024 3:47:59PM

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Method Blank

Blank ID: MB for HBN 1886031 [STS/7910]
Blank Lab ID: 1765181

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1242307001, 1242307002

Results by SM21 2540D

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>
Total Suspended Solids	0.750U	1.00	0.310	0.750	mg/L

Batch Information

Analytical Batch: STS7910
Analytical Method: SM21 2540D
Instrument:
Analyst: AJP
Analytical Date/Time: 5/28/2024 11:17:00AM

Print Date: 06/05/2024 3:48:02PM

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Duplicate Sample Summary

Original Sample ID: 1242267001

Duplicate Sample ID: 1765187

QC for Samples:

Analysis Date: 05/28/2024 11:17

Matrix: Water (Surface, Eff., Ground)

Results by SM21 2540D

<u>NAME</u>	<u>Original</u>	<u>Duplicate</u>	<u>Units</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Suspended Solids	288	320	mg/L	10.50*	(< 5)

Batch Information

Analytical Batch: STS7910

Analytical Method: SM21 2540D

Instrument:

Analyst: AJP

Print Date: 06/05/2024 3:48:04PM

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Duplicate Sample Summary

Original Sample ID: 1242299001

Duplicate Sample ID: 1765220

QC for Samples:

1242307001, 1242307002

Analysis Date: 05/28/2024 11:17

Matrix: Water (Surface, Eff., Ground)

Results by SM21 2540D

<u>NAME</u>	<u>Original</u>	<u>Duplicate</u>	<u>Units</u>	<u>RPD (%)</u>	<u>RPD CL</u>
Total Suspended Solids	301	330	mg/L	9.20*	(< 5)

Batch Information

Analytical Batch: STS7910

Analytical Method: SM21 2540D

Instrument:

Analyst: AJP

Print Date: 06/05/2024 3:48:04PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1242307 [STS7910]
Blank Spike Lab ID: 1765182
Date Analyzed: 05/28/2024 11:17

Spike Duplicate ID: LCSD for HBN 1242307 [STS7910]
Spike Duplicate Lab ID: 1765183
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1242307001, 1242307002

Results by SM21 2540D

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Total Suspended Solids	25	24.3	97	25	24.6	98	(75-125)	1.20	(< 5)

Batch Information

Analytical Batch: STS7910
Analytical Method: SM21 2540D
Instrument:
Analyst: AJP

Print Date: 06/05/2024 3:48:06PM

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Method Blank

Blank ID: MB for HBN 1889541 [VXX/41243]

Blank Lab ID: 1766477

QC for Samples:

1242307001, 1242307002, 1242307003, 1242307006

Matrix: Water (Surface, Eff., Ground)

Results by EPA 602/624.1

Parameter	Results	LOQ/CL	DL	LOD	Units
Benzene	0.300U	0.400	0.120	0.300	ug/L
Ethylbenzene	0.750U	1.00	0.310	0.750	ug/L
o-Xylene	0.750U	1.00	0.310	0.750	ug/L
P & M -Xylene	1.50U	2.00	0.620	1.50	ug/L
Toluene	0.750U	1.00	0.310	0.750	ug/L

Surrogates

1,2-Dichloroethane-D4 (surr)	92	81-118	0	%
4-Bromofluorobenzene (surr)	94.9	85-114	0	%
Toluene-d8 (surr)	101	89-112	0	%

Batch Information

Analytical Batch: VMS23286

Analytical Method: EPA 602/624.1

Instrument: Agilent 7890-75MS

Analyst: JY

Analytical Date/Time: 6/4/2024 5:54:00PM

Prep Batch: VXX41243

Prep Method: SW5030B

Prep Date/Time: 6/4/2024 6:00:00AM

Prep Initial Wt./Vol.: 5 mL

Prep Extract Vol: 5 mL

Print Date: 06/05/2024 3:48:09PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1242307 [VXX41243]
Blank Spike Lab ID: 1766478
Date Analyzed: 06/04/2024 18:10

Spike Duplicate ID: LCSD for HBN 1242307
[VXX41243]
Spike Duplicate Lab ID: 1766479
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1242307001, 1242307002, 1242307003, 1242307006

Results by EPA 602/624.1

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Benzene	30	29.5	98	30	28.0	94	(79-120)	5.00	(< 20)
Ethylbenzene	30	30.2	101	30	30.0	100	(79-121)	0.53	(< 20)
o-Xylene	30	30.4	101	30	30.8	103	(78-122)	1.30	(< 20)
P & M -Xylene	60	62.1	104	60	62.5	104	(80-121)	0.67	(< 20)
Toluene	30	29.2	97	30	29.1	97	(80-121)	0.17	(< 20)
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		95	30		93	(81-118)	2.80	
4-Bromofluorobenzene (surr)	30		100	30		99	(85-114)	0.47	
Toluene-d8 (surr)	30		101	30		102	(89-112)	0.63	

Batch Information

Analytical Batch: VMS23286
Analytical Method: EPA 602/624.1
Instrument: Agilent 7890-75MS
Analyst: JY

Prep Batch: VXX41243
Prep Method: SW5030B
Prep Date/Time: 06/04/2024 06:00
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Print Date: 06/05/2024 3:48:11PM

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Method Blank

Blank ID: MB for HBN 1885476 [WSP/5881]

Blank Lab ID: 1765087

QC for Samples:

1242307001, 1242307002

Matrix: Water (Surface, Eff., Ground)

Results by EPA 410.4

<u>Parameter</u>	<u>Results</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>LOD</u>	<u>Units</u>
Chemical Oxygen Demand	15.0U	20.0	6.20	15.0	mg/L

Batch Information

Analytical Batch: WSP5881

Analytical Method: EPA 410.4

Instrument: HACH DR2700 Spec.

Analyst: ACF

Analytical Date/Time: 5/24/2024 2:10:00PM

Print Date: 06/05/2024 3:48:14PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1242307 [WSP5881]
Blank Spike Lab ID: 1765088
Date Analyzed: 05/24/2024 14:10

Spike Duplicate ID: LCSD for HBN 1242307 [WSP5881]
Spike Duplicate Lab ID: 1765089
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1242307001, 1242307002

Results by EPA 410.4

Parameter	Blank Spike (mg/L)			Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Chemical Oxygen Demand	500	520	104	500	523	105	(90-110)	0.56	(< 25)

Batch Information

Analytical Batch: **WSP5881**
Analytical Method: **EPA 410.4**
Instrument: **HACH DR2700 Spec.**
Analyst: **ACF**

Print Date: 06/05/2024 3:48:17PM

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Matrix Spike Summary

Original Sample ID: 1242180001
MS Sample ID: 1765090 MS
MSD Sample ID:

Analysis Date: 05/24/2024 14:10
Analysis Date: 05/24/2024 14:10
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1242307001, 1242307002

Results by EPA 410.4

Parameter	Matrix Spike (mg/L)				Spike Duplicate (mg/L)			CL	RPD (%)	RPD CL
	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Chemical Oxygen Demand	28.9	500	525	99				90-110		

Batch Information

Analytical Batch: WSP5881
Analytical Method: EPA 410.4
Instrument: HACH DR2700 Spec.
Analyst: ACF
Analytical Date/Time: 5/24/2024 2:10:00PM

Print Date: 06/05/2024 3:48:19PM

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Method Blank

Blank ID: MB for HBN 1886036 [XXX/49509]
Blank Lab ID: 1765215

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1242307003, 1242307004, 1242307005

Results by 8270E SIM LV (PAH)

Parameter	Results	LOQ/CL	DL	LOD	Units
Acenaphthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Acenaphthylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo(a)Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[a]pyrene	0.0150U	0.0200	0.00620	0.0150	ug/L
Benzo[b]Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[g,h,i]perylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[k]fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Chrysene	0.0375U	0.0500	0.0150	0.0375	ug/L
Dibenzo[a,h]anthracene	0.0150U	0.0200	0.00620	0.0150	ug/L
Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Fluorene	0.0375U	0.0500	0.0150	0.0375	ug/L
Indeno[1,2,3-c,d] pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Naphthalene	0.0750U	0.100	0.0310	0.0750	ug/L
Phenanthrene	0.0750U	0.100	0.0310	0.0750	ug/L
Pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Surrogates					
2-Methylnaphthalene-d10 (surr)	77.6	38-100		0	%
Fluoranthene-d10 (surr)	80.9	30-111		0	%

Batch Information

Analytical Batch: XMS14262
Analytical Method: 8270E SIM LV (PAH)
Instrument: Agilent GC 7890B/5977A SWA
Analyst: C.M
Analytical Date/Time: 5/29/2024 11:57:00AM

Prep Batch: XXX49509
Prep Method: SW3535A
Prep Date/Time: 5/28/2024 11:25:00AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 06/05/2024 3:48:21PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1242307 [XXX49509]

Blank Spike Lab ID: 1765216

Date Analyzed: 05/29/2024 12:18

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1242307003, 1242307004, 1242307005

Results by 8270E SIM LV (PAH)

Parameter	Blank Spike (ug/L)			CL
	Spike	Result	Rec (%)	
Acenaphthene	2	1.58	79	(48-114)
Acenaphthylene	2	1.65	82	(35-121)
Anthracene	2	1.85	93	(53-119)
Benzo(a)Anthracene	2	1.81	91	(59-120)
Benzo[a]pyrene	2	1.84	92	(53-120)
Benzo[b]Fluoranthene	2	1.95	97	(53-126)
Benzo[g,h,i]perylene	2	1.95	97	(44-128)
Benzo[k]fluoranthene	2	1.92	96	(54-125)
Chrysene	2	1.82	91	(57-120)
Dibenzo[a,h]anthracene	2	1.95	97	(44-131)
Fluoranthene	2	1.77	88	(58-120)
Fluorene	2	1.66	83	(50-118)
Indeno[1,2,3-c,d] pyrene	2	1.93	97	(48-130)
Naphthalene	2	1.45	72	(43-114)
Phenanthrene	2	1.84	92	(53-115)
Pyrene	2	1.78	89	(53-121)
Surrogates				
2-Methylnaphthalene-d10 (surr)	2		77	(38-100)
Fluoranthene-d10 (surr)	2		80	(30-111)

Batch Information

Analytical Batch: XMS14262

Analytical Method: 8270E SIM LV (PAH)

Instrument: Agilent GC 7890B/5977A SWA

Analyst: C.M

Prep Batch: XXX49509

Prep Method: SW3535A

Prep Date/Time: 05/28/2024 11:25

Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 06/05/2024 3:48:23PM

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Matrix Spike Summary

Original Sample ID: 1242324001
MS Sample ID: 1765738 MS
MSD Sample ID: 1765739 MSD

Analysis Date: 05/29/2024 16:04
Analysis Date: 05/29/2024 16:25
Analysis Date: 05/29/2024 16:45
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1242307003, 1242307004, 1242307005

Results by 8270E SIM LV (PAH)

Parameter	Sample	Matrix Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Acenaphthene	0.0382U	2.00	1.62	81	2.00	1.68	84	48-114	3.10	(< 20)
Acenaphthylene	0.0382U	2.00	1.66	83	2.00	1.73	86	35-121	4.10	(< 20)
Anthracene	0.0382U	2.00	1.83	91	2.00	1.87	93	53-119	2.20	(< 20)
Benzo(a)Anthracene	0.0382U	2.00	1.66	83	2.00	1.73	87	59-120	4.30	(< 20)
Benzo[a]pyrene	0.0153U	2.00	1.64	82	2.00	1.70	85	53-120	3.50	(< 20)
Benzo[b]Fluoranthene	0.0382U	2.00	1.78	89	2.00	1.89	95	53-126	6.10	(< 20)
Benzo[g,h,i]perylene	0.0382U	2.00	1.73	86	2.00	1.79	89	44-128	3.30	(< 20)
Benzo[k]fluoranthene	0.0382U	2.00	1.69	85	2.00	1.70	85	54-125	0.25	(< 20)
Chrysene	0.0382U	2.00	1.7	85	2.00	1.76	88	57-120	3.50	(< 20)
Dibenzo[a,h]anthracene	0.0153U	2.00	1.72	86	2.00	1.76	88	44-131	2.60	(< 20)
Fluoranthene	0.0382U	2.00	1.75	87	2.00	1.80	90	58-120	2.90	(< 20)
Fluorene	0.0382U	2.00	1.69	85	2.00	1.69	85	50-118	0.07	(< 20)
Indeno[1,2,3-c,d] pyrene	0.0382U	2.00	1.71	85	2.00	1.77	88	48-130	3.30	(< 20)
Naphthalene	0.0765U	2.00	1.46	73	2.00	1.49	75	43-114	1.70	(< 20)
Phenanthrene	0.0765U	2.00	1.82	91	2.00	1.86	93	53-115	1.90	(< 20)
Pyrene	0.0382U	2.00	1.73	86	2.00	1.79	89	53-121	3.40	(< 20)
Surrogates										
2-Methylnaphthalene-d10 (surr)		2.00	1.38	69	2.00	1.41	70	38-100	1.90	
Fluoranthene-d10 (surr)		2.00	1.51	76	2.00	1.55	77	30-111	2.20	

Batch Information

Analytical Batch: XMS14262
Analytical Method: 8270E SIM LV (PAH)
Instrument: Agilent GC 7890B/5977A SWA
Analyst: C.M
Analytical Date/Time: 5/29/2024 4:25:00PM

Prep Batch: XXX49509
Prep Method: 3535 Solid Phase Ext for 8270 PAH SIM LV
Prep Date/Time: 5/28/2024 11:25:00AM
Prep Initial Wt./Vol.: 250.00mL
Prep Extract Vol: 1.00mL

Print Date: 06/05/2024 3:48:25PM

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SAMPLE RECEIPT FORM

1242307



Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (temperature, COC seals, etc.?)	☒ Yes	☐ No	☐ N/A	
Was temperature between 0-6° C?	☒ Yes	☐ No	☐ N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	☒ Yes	☐ No	☐ N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	☒ Yes	☐ No	☐ N/A	
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	☐ Yes	☐ No	☒ N/A	
If rush was requested by the client, was the requested TAT approved?	☐ Yes	☐ No	☒ N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPDL Number provided?	☐ Yes	☐ No	☒ N/A	If "NO", contact client for information.
Sample Login Completion				
Do ID's on sample containers match COC?	☒ Yes	☐ No	☐ N/A	
If provided on containers, do dates/times collected match COC?	☐ Yes	☐ No	☒ N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	☒ Yes	☐ No	☐ N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? *See form F-083 "Sample Guide"	☒ Yes	☐ No	☐ N/A	Note: If 200.8/6020 Total Metals are received unpreserved, preserve and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	☒ Yes	☐ No	☐ N/A	
Were all VOA vials free of headspace >6mm?	☒ Yes	☐ No	☐ N/A	
Were all soil VOA samples received field extracted with Methanol?	☐ Yes	☐ No	☒ N/A	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	☐ Yes	☐ No	☒ N/A	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	☐ Yes	☐ No	☒ N/A	
For Rush/Short Holding time, was the lab notified?	☒ Yes	☐ No	☐ N/A	
For any question answered "NO", was the Project Manager notified?	☐ Yes	☐ No	☒ N/A	PM Initials:
Was Peer Review of sample numbering/labelling completed?	☒ Yes	☐ No	☐ N/A	Reviewer Initials: <i>GBH</i>
Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:				



Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>	<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>
1242307001-A	HCL to pH < 2	OK			
1242307001-B	HCL to pH < 2	OK			
1242307001-C	HCL to pH < 2	OK			
1242307001-D	No Preservative Required	OK			
1242307001-E	No Preservative Required	OK			
1242307001-F	No Preservative Required	OK			
1242307002-A	HCL to pH < 2	OK			
1242307002-B	HCL to pH < 2	OK			
1242307002-C	HCL to pH < 2	OK			
1242307002-D	No Preservative Required	OK			
1242307002-E	No Preservative Required	OK			
1242307002-F	No Preservative Required	OK			
1242307003-A	HCL to pH < 2	OK			
1242307003-B	HCL to pH < 2	OK			
1242307003-C	HCL to pH < 2	OK			
1242307003-D	No Preservative Required	OK			
1242307003-E	No Preservative Required	OK			
1242307004-A	No Preservative Required	OK			
1242307004-B	No Preservative Required	OK			
1242307005-A	No Preservative Required	OK			
1242307005-B	No Preservative Required	OK			
1242307006-A	HCL to pH < 2	OK			
1242307006-B	HCL to pH < 2	OK			
1242307006-C	HCL to pH < 2	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

QN - Insufficient sample quantity provided.



Laboratory Report of Analysis

To: Michael Baker International
3900 C St Suite 900
Anchorage, AK 99503

Report Number: **1245847**

Client Project: **POA 2024 MS4 Sampling**

Dear Pat Whitesell,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Justin Nelson
2024.11.27
11:41:31 -09'00'

Justin Nelson
Project Manager
Justin.Nelson@sgs.com

Date



Case Narrative

SGS Client: **Michael Baker International**
SGS Project: **1245847**
Project Name/Site: **POA 2024 MS4 Sampling**
Project Contact: **Pat Whitesell**

Refer to sample receipt form for information on sample condition.

POA SDS 3 (1245847003) PS

8270E SIM - PAH The sample was extracted outside of hold time due to lab error.

LCS for HBN 1901977 [VXX/42122 (1795763) LCS

8260D - LCS recoveries for multiple analytes do not meet QC criteria. These analytes were not reported above the LOQ in the associated samples.

LCSD for HBN 1901977 [VXX/4212 (1795764) LCSD

8260D - LCSD recoveries for multiple analytes do not meet QC criteria. These analytes were not reported above the LOQ in the associated samples.

MB for HBN 1903703 [XXX/50773] (1800750) MB

8270E SIM - PAH Several analytes are detected above 1/2 the LOQ but below the LOQ in the MB. Associated DOD sample concentrations are below the LOQ or 5 times the contamination.

1245914015MSD (1800913) MSD

8270E SIM - PAH MS/MSD RPD for several analytes do not meet QC criteria. Results for these analytes are considered estimated in the parent sample.

1246405009MSD (1801893) MSD

8270E SIM - PAH MSD recoveries for phenanthrene and anthracene do not meet QC criteria. Refer to the LCS for accuracy requirements.

8270E SIM - PAH MS/MSD RPDs for several analytes do not meet QC criteria. These analytes are not reported above the LOQ in the associated parent sample.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Print Date: 11/27/2024 9:39:26AM

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270E, 8270E-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 3/4 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

Sample Summary

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Collected</u>	<u>Received</u>	<u>Matrix</u>
POA SDS 1	1245847001	10/06/2024	10/07/2024	Water (Surface, Eff., Ground)
POA SDS 2	1245847002	10/06/2024	10/07/2024	Water (Surface, Eff., Ground)
POA SDS 3	1245847003	10/06/2024	10/07/2024	Water (Surface, Eff., Ground)
Trip Blank	1245847004	10/06/2024	10/07/2024	Water (Surface, Eff., Ground)

<u>Method</u>	<u>Method Description</u>
EPA 602/624.1	602 Aromatics by 624 (W)
EPA 625.1M SIM (PAH) LV	625 PAH SIM GC/MS Low Volume

Print Date: 11/27/2024 9:39:32AM

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Detectable Results Summary

Client Sample ID: **POA SDS 1**

Lab Sample ID: 1245847001

Polynuclear Aromatics GC/MS

Volatile GC/MS

Client Sample ID: **POA SDS 3**

Lab Sample ID: 1245847003

Polynuclear Aromatics GC/MS

Volatile GC/MS

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Acenaphthene	0.0861	ug/L
Naphthalene	0.124	ug/L
Ethylbenzene	12.3	ug/L

<u>Parameter</u>	<u>Result</u>	<u>Units</u>
Pyrene	0.0500	ug/L
Benzene	1.13	ug/L
Ethylbenzene	5.09	ug/L
P & M -Xylene	4.86	ug/L



Results of POA SDS 1

Client Sample ID: **POA SDS 1**
Client Project ID: **POA 2024 MS4 Sampling**
Lab Sample ID: 1245847001
Lab Project ID: 1245847

Collection Date: 10/06/24 17:30
Received Date: 10/07/24 10:45
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polynuclear Aromatics GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.0861		0.0455	0.0136	ug/L	1		11/11/24 19:05
Acenaphthylene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:05
Anthracene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:05
Benzo(a)Anthracene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:05
Benzo[a]pyrene	0.0182	U	0.0182	0.00564	ug/L	1		11/11/24 19:05
Benzo[b]Fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:05
Benzo[g,h,i]perylene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:05
Benzo[k]fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:05
Chrysene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:05
Dibenzo[a,h]anthracene	0.0182	U	0.0182	0.00564	ug/L	1		11/11/24 19:05
Fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:05
Fluorene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:05
Indeno[1,2,3-c,d] pyrene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:05
Naphthalene	0.124		0.0909	0.0282	ug/L	1		11/11/24 19:05
Phenanthrene	0.0909	U	0.0909	0.0282	ug/L	1		11/11/24 19:05
Pyrene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:05
Surrogates								
2-Methylnaphthalene-d10 (surr)	63.9		38-100		%	1		11/11/24 19:05
Fluoranthene-d10 (surr)	75.1		30-111		%	1		11/11/24 19:05

Batch Information

Analytical Batch: XMS14695
Analytical Method: EPA 625.1M SIM (PAH) LV
Analyst: HBL
Analytical Date/Time: 11/11/24 19:05
Container ID: 1245847001-D

Prep Batch: XXX50629
Prep Method: SW3535A
Prep Date/Time: 10/11/24 18:57
Prep Initial Wt./Vol.: 275 mL
Prep Extract Vol: 1 mL

Print Date: 11/27/2024 9:39:36AM

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Results of POA SDS 1

Client Sample ID: **POA SDS 1**
Client Project ID: **POA 2024 MS4 Sampling**
Lab Sample ID: 1245847001
Lab Project ID: 1245847

Collection Date: 10/06/24 17:30
Received Date: 10/07/24 10:45
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400	U	0.400	0.120	ug/L	1		10/08/24 05:18
Ethylbenzene	12.3		1.00	0.310	ug/L	1		10/08/24 05:18
o-Xylene	1.00	U	1.00	0.310	ug/L	1		10/08/24 05:18
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		10/08/24 05:18
Toluene	1.00	U	1.00	0.310	ug/L	1		10/08/24 05:18

Surrogates

1,2-Dichloroethane-D4 (surr)	114		81-118		%	1		10/08/24 05:18
4-Bromofluorobenzene (surr)	103		85-114		%	1		10/08/24 05:18
Toluene-d8 (surr)	96		89-112		%	1		10/08/24 05:18

Batch Information

Analytical Batch: VMS23850
Analytical Method: EPA 602/624.1
Analyst: CJG
Analytical Date/Time: 10/08/24 05:18
Container ID: 1245847001-A

Prep Batch: VXX42122
Prep Method: SW5030B
Prep Date/Time: 10/07/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 11/27/2024 9:39:36AM

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Results of POA SDS 2

Client Sample ID: **POA SDS 2**
Client Project ID: **POA 2024 MS4 Sampling**
Lab Sample ID: 1245847002
Lab Project ID: 1245847

Collection Date: 10/06/24 17:50
Received Date: 10/07/24 10:45
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polynuclear Aromatics GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:21
Acenaphthylene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:21
Anthracene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:21
Benzo(a)Anthracene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:21
Benzo[a]pyrene	0.0182	U	0.0182	0.00564	ug/L	1		11/11/24 19:21
Benzo[b]Fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:21
Benzo[g,h,i]perylene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:21
Benzo[k]fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:21
Chrysene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:21
Dibenzo[a,h]anthracene	0.0182	U	0.0182	0.00564	ug/L	1		11/11/24 19:21
Fluoranthene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:21
Fluorene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:21
Indeno[1,2,3-c,d] pyrene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:21
Naphthalene	0.0909	U	0.0909	0.0282	ug/L	1		11/11/24 19:21
Phenanthrene	0.0909	U	0.0909	0.0282	ug/L	1		11/11/24 19:21
Pyrene	0.0455	U	0.0455	0.0136	ug/L	1		11/11/24 19:21
Surrogates								
2-Methylnaphthalene-d10 (surr)	67.9		38-100		%	1		11/11/24 19:21
Fluoranthene-d10 (surr)	74.7		30-111		%	1		11/11/24 19:21

Batch Information

Analytical Batch: XMS14695
Analytical Method: EPA 625.1M SIM (PAH) LV
Analyst: HBL
Analytical Date/Time: 11/11/24 19:21
Container ID: 1245847002-D

Prep Batch: XXX50629
Prep Method: SW3535A
Prep Date/Time: 10/11/24 18:57
Prep Initial Wt./Vol.: 275 mL
Prep Extract Vol: 1 mL

Print Date: 11/27/2024 9:39:36AM

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Results of POA SDS 2

Client Sample ID: **POA SDS 2**
Client Project ID: **POA 2024 MS4 Sampling**
Lab Sample ID: 1245847002
Lab Project ID: 1245847

Collection Date: 10/06/24 17:50
Received Date: 10/07/24 10:45
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400	U	0.400	0.120	ug/L	1		10/08/24 05:33
Ethylbenzene	1.00	U	1.00	0.310	ug/L	1		10/08/24 05:33
o-Xylene	1.00	U	1.00	0.310	ug/L	1		10/08/24 05:33
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		10/08/24 05:33
Toluene	1.00	U	1.00	0.310	ug/L	1		10/08/24 05:33

Surrogates

1,2-Dichloroethane-D4 (surr)	110		81-118		%	1		10/08/24 05:33
4-Bromofluorobenzene (surr)	101		85-114		%	1		10/08/24 05:33
Toluene-d8 (surr)	97.9		89-112		%	1		10/08/24 05:33

Batch Information

Analytical Batch: VMS23850
Analytical Method: EPA 602/624.1
Analyst: CJG
Analytical Date/Time: 10/08/24 05:33
Container ID: 1245847002-A

Prep Batch: VXX42122
Prep Method: SW5030B
Prep Date/Time: 10/07/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 11/27/2024 9:39:36AM

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Results of POA SDS 3

Client Sample ID: **POA SDS 3**
Client Project ID: **POA 2024 MS4 Sampling**
Lab Sample ID: 1245847003
Lab Project ID: 1245847

Collection Date: 10/06/24 17:00
Received Date: 10/07/24 10:45
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Polynuclear Aromatics GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.0463	U	0.0463	0.0139	ug/L	1		11/15/24 23:38
Acenaphthylene	0.0463	U	0.0463	0.0139	ug/L	1		11/15/24 23:38
Anthracene	0.0463	U	0.0463	0.0139	ug/L	1		11/15/24 23:38
Benzo(a)Anthracene	0.0463	U	0.0463	0.0139	ug/L	1		11/15/24 23:38
Benzo[a]pyrene	0.0185	U	0.0185	0.00574	ug/L	1		11/15/24 23:38
Benzo[b]Fluoranthene	0.0463	U	0.0463	0.0139	ug/L	1		11/15/24 23:38
Benzo[g,h,i]perylene	0.0463	U	0.0463	0.0139	ug/L	1		11/15/24 23:38
Benzo[k]fluoranthene	0.0463	U	0.0463	0.0139	ug/L	1		11/15/24 23:38
Chrysene	0.0463	U	0.0463	0.0139	ug/L	1		11/15/24 23:38
Dibenzo[a,h]anthracene	0.0185	U	0.0185	0.00574	ug/L	1		11/15/24 23:38
Fluoranthene	0.0463	U	0.0463	0.0139	ug/L	1		11/15/24 23:38
Fluorene	0.0463	U	0.0463	0.0139	ug/L	1		11/15/24 23:38
Indeno[1,2,3-c,d] pyrene	0.0463	U	0.0463	0.0139	ug/L	1		11/15/24 23:38
Naphthalene	0.0926	U	0.0926	0.0287	ug/L	1		11/15/24 23:38
Phenanthrene	0.0926	U	0.0926	0.0287	ug/L	1		11/15/24 23:38
Pyrene	0.0500		0.0463	0.0139	ug/L	1		11/15/24 23:38
Surrogates								
2-Methylnaphthalene-d10 (surr)	80.7		38-100		%	1		11/15/24 23:38
Fluoranthene-d10 (surr)	92.1		30-111		%	1		11/15/24 23:38

Batch Information

Analytical Batch: XMS14715
Analytical Method: EPA 625.1M SIM (PAH) LV
Analyst: NGG
Analytical Date/Time: 11/15/24 23:38
Container ID: 1245847003-D

Prep Batch: XXX50773
Prep Method: SW3535A
Prep Date/Time: 11/06/24 12:45
Prep Initial Wt./Vol.: 270 mL
Prep Extract Vol: 1 mL

Print Date: 11/27/2024 9:39:36AM

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Results of POA SDS 3

Client Sample ID: **POA SDS 3**
Client Project ID: **POA 2024 MS4 Sampling**
Lab Sample ID: 1245847003
Lab Project ID: 1245847

Collection Date: 10/06/24 17:00
Received Date: 10/07/24 10:45
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	1.13		0.400	0.120	ug/L	1		10/08/24 05:48
Ethylbenzene	5.09		1.00	0.310	ug/L	1		10/08/24 05:48
o-Xylene	1.00	U	1.00	0.310	ug/L	1		10/08/24 05:48
P & M -Xylene	4.86		2.00	0.620	ug/L	1		10/08/24 05:48
Toluene	1.00	U	1.00	0.310	ug/L	1		10/08/24 05:48

Surrogates

1,2-Dichloroethane-D4 (surr)	116		81-118		%	1		10/08/24 05:48
4-Bromofluorobenzene (surr)	101		85-114		%	1		10/08/24 05:48
Toluene-d8 (surr)	96.1		89-112		%	1		10/08/24 05:48

Batch Information

Analytical Batch: VMS23850
Analytical Method: EPA 602/624.1
Analyst: CJG
Analytical Date/Time: 10/08/24 05:48
Container ID: 1245847003-A

Prep Batch: VXX42122
Prep Method: SW5030B
Prep Date/Time: 10/07/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 11/27/2024 9:39:36AM

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Results of Trip Blank

Client Sample ID: **Trip Blank**
Client Project ID: **POA 2024 MS4 Sampling**
Lab Sample ID: 1245847004
Lab Project ID: 1245847

Collection Date: 10/06/24 17:00
Received Date: 10/07/24 10:45
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by Volatile GC/MS

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Benzene	0.400	U	0.400	0.120	ug/L	1		10/08/24 04:18
Ethylbenzene	1.00	U	1.00	0.310	ug/L	1		10/08/24 04:18
o-Xylene	1.00	U	1.00	0.310	ug/L	1		10/08/24 04:18
P & M -Xylene	2.00	U	2.00	0.620	ug/L	1		10/08/24 04:18
Toluene	1.00	U	1.00	0.310	ug/L	1		10/08/24 04:18

Surrogates

1,2-Dichloroethane-D4 (surr)	113		81-118		%	1		10/08/24 04:18
4-Bromofluorobenzene (surr)	99.6		85-114		%	1		10/08/24 04:18
Toluene-d8 (surr)	97.4		89-112		%	1		10/08/24 04:18

Batch Information

Analytical Batch: VMS23850
Analytical Method: EPA 602/624.1
Analyst: CJG
Analytical Date/Time: 10/08/24 04:18
Container ID: 1245847004-A

Prep Batch: VXX42122
Prep Method: SW5030B
Prep Date/Time: 10/07/24 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 11/27/2024 9:39:36AM

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Method Blank

Blank ID: MB for HBN 1901977 [VXX/42122]

Blank Lab ID: 1795762

QC for Samples:

1245847001, 1245847002, 1245847003, 1245847004

Matrix: Water (Surface, Eff., Ground)

Results by EPA 602/624.1

Parameter	Results	LOQ/CL	DL	LOD	Units
Benzene	0.300U	0.400	0.120	0.300	ug/L
Ethylbenzene	0.750U	1.00	0.310	0.750	ug/L
o-Xylene	0.750U	1.00	0.310	0.750	ug/L
P & M -Xylene	1.50U	2.00	0.620	1.50	ug/L
Toluene	0.750U	1.00	0.310	0.750	ug/L

Surrogates

1,2-Dichloroethane-D4 (surr)	109	81-118	0	%
4-Bromofluorobenzene (surr)	102	85-114	0	%
Toluene-d8 (surr)	97.3	89-112	0	%

Batch Information

Analytical Batch: VMS23850

Analytical Method: EPA 602/624.1

Instrument: VPA 780/5975 GC/MS

Analyst: CJG

Analytical Date/Time: 10/8/2024 2:17:00AM

Prep Batch: VXX42122

Prep Method: SW5030B

Prep Date/Time: 10/7/2024 6:00:00AM

Prep Initial Wt./Vol.: 5 mL

Prep Extract Vol: 5 mL

Print Date: 11/27/2024 9:39:39AM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1245847 [VXX42122]
Blank Spike Lab ID: 1795763
Date Analyzed: 10/08/2024 02:32

Spike Duplicate ID: LCSD for HBN 1245847 [VXX42122]
Spike Duplicate Lab ID: 1795764
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1245847001, 1245847002, 1245847003, 1245847004

Results by EPA 602/624.1

Parameter	Blank Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
	Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Benzene	30	29.4	98	30	29.8	99	(79-120)	1.10	(< 20)
Ethylbenzene	30	29.1	97	30	29.3	98	(79-121)	0.56	(< 20)
o-Xylene	30	28.6	95	30	29.1	97	(78-122)	1.80	(< 20)
P & M -Xylene	60	57.7	96	60	57.2	95	(80-121)	0.81	(< 20)
Toluene	30	28.5	95	30	28.9	97	(80-121)	1.50	(< 20)
Surrogates									
1,2-Dichloroethane-D4 (surr)	30		109	30		112	(81-118)	2.70	
4-Bromofluorobenzene (surr)	30		102	30		99	(85-114)	2.60	
Toluene-d8 (surr)	30		99	30		100	(89-112)	0.62	

Batch Information

Analytical Batch: VMS23850
Analytical Method: EPA 602/624.1
Instrument: VPA 780/5975 GC/MS
Analyst: CJG

Prep Batch: VXX42122
Prep Method: SW5030B
Prep Date/Time: 10/07/2024 06:00
Spike Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 30 ug/L Extract Vol: 5 mL

Print Date: 11/27/2024 9:39:42AM

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Method Blank

Blank ID: MB for HBN 1901572 [XXX/50629]
Blank Lab ID: 1794371

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1245847001, 1245847002

Results by EPA 625.1M SIM (PAH) LV

Parameter	Results	LOQ/CL	DL	LOD	Units
Acenaphthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Acenaphthylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo(a)Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[a]pyrene	0.0150U	0.0200	0.00620	0.0150	ug/L
Benzo[b]Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[g,h,i]perylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[k]fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Chrysene	0.0375U	0.0500	0.0150	0.0375	ug/L
Dibenzo[a,h]anthracene	0.0150U	0.0200	0.00620	0.0150	ug/L
Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Fluorene	0.0375U	0.0500	0.0150	0.0375	ug/L
Indeno[1,2,3-c,d] pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Naphthalene	0.0750U	0.100	0.0310	0.0750	ug/L
Phenanthrene	0.0750U	0.100	0.0310	0.0750	ug/L
Pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Surrogates					
2-Methylnaphthalene-d10 (surr)	47.5	38-100		0	%
Fluoranthene-d10 (surr)	65.1	30-111		0	%

Batch Information

Analytical Batch: XMS14695
Analytical Method: EPA 625.1M SIM (PAH) LV
Instrument: Agilent 8890 GC/MS SYA
Analyst: HBL
Analytical Date/Time: 11/11/2024 1:56:00PM

Prep Batch: XXX50629
Prep Method: SW3535A
Prep Date/Time: 10/11/2024 6:57:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 11/27/2024 9:39:45AM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1245847 [XXX50629]

Blank Spike Lab ID: 1794372

Date Analyzed: 11/11/2024 14:12

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1245847001, 1245847002

Results by EPA 625.1M SIM (PAH) LV

Parameter	Blank Spike (ug/L)			CL
	Spike	Result	Rec (%)	
Acenaphthene	2	1.23	62	(48-114)
Acenaphthylene	2	1.26	63	(35-121)
Anthracene	2	1.32	66	(53-119)
Benzo(a)Anthracene	2	1.43	72	(59-120)
Benzo[a]pyrene	2	1.49	74	(53-120)
Benzo[b]Fluoranthene	2	1.45	73	(53-126)
Benzo[g,h,i]perylene	2	1.66	83	(44-128)
Benzo[k]fluoranthene	2	1.45	73	(54-125)
Chrysene	2	1.53	76	(57-120)
Dibenzo[a,h]anthracene	2	1.58	79	(44-131)
Fluoranthene	2	1.25	62	(58-120)
Fluorene	2	1.23	62	(50-118)
Indeno[1,2,3-c,d] pyrene	2	1.49	75	(48-130)
Naphthalene	2	1.04	52	(43-114)
Phenanthrene	2	1.32	66	(53-115)
Pyrene	2	1.25	63	(53-121)

Surrogates

2-Methylnaphthalene-d10 (surr)	2	52	(38-100)
Fluoranthene-d10 (surr)	2	64	(30-111)

Batch Information

Analytical Batch: XMS14695

Analytical Method: EPA 625.1M SIM (PAH) LV

Instrument: Agilent 8890 GC/MS SYA

Analyst: HBL

Prep Batch: XXX50629

Prep Method: SW3535A

Prep Date/Time: 10/11/2024 18:57

Spike Init Wt./Vol.: 2 ug/L Extract Vol: 1 mL

Dupe Init Wt./Vol.: Extract Vol:

Print Date: 11/27/2024 9:39:48AM

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Matrix Spike Summary

Original Sample ID: 1245914015
MS Sample ID: 1800912 MS
MSD Sample ID: 1800913 MSD

Analysis Date: 11/11/2024 18:16
Analysis Date: 11/11/2024 18:32
Analysis Date: 11/11/2024 18:48
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1245847001, 1245847002

Results by EPA 625.1M SIM (PAH) LV

Parameter	Sample	Matrix Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Acenaphthene	0.0382U	1.92	1.48	77	2.04	1.47	72	48-114	0.71	(< 20)
Acenaphthylene	0.0382U	1.92	1.53	80	2.04	1.52	75	35-121	0.53	(< 20)
Anthracene	0.0382U	1.92	1.44	75	2.04	1.32	65	53-119	8.30	(< 20)
Benzo(a)Anthracene	0.0382U	1.92	1.44	75	2.04	1.45	71	59-120	0.74	(< 20)
Benzo[a]pyrene	0.0153U	1.92	1.27	66	2.04	1.75	86	53-120	31.70	* (< 20)
Benzo[b]Fluoranthene	0.0382U	1.92	1.27	66	2.04	1.79	88	53-126	34.20	* (< 20)
Benzo[g,h,i]perylene	0.0382U	1.92	1.39	72	2.04	1.94	95	44-128	33.50	* (< 20)
Benzo[k]fluoranthene	0.0382U	1.92	1.4	73	2.04	1.91	94	54-125	30.80	* (< 20)
Chrysene	0.0382U	1.92	1.57	82	2.04	1.72	84	57-120	8.90	(< 20)
Dibenzo[a,h]anthracene	0.0153U	1.92	1.33	69	2.04	1.86	91	44-131	33.20	* (< 20)
Fluoranthene	0.0382U	1.92	1.57	82	2.04	1.77	87	58-120	12.00	(< 20)
Fluorene	0.0382U	1.92	1.37	71	2.04	1.37	67	50-118	0.36	(< 20)
Indeno[1,2,3-c,d] pyrene	0.0382U	1.92	1.24	65	2.04	1.69	83	48-130	30.90	* (< 20)
Naphthalene	0.0765U	1.92	1.41	73	2.04	1.33	65	43-114	5.70	(< 20)
Phenanthrene	0.0765U	1.92	1.46	76	2.04	1.38	68	53-115	5.90	(< 20)
Pyrene	0.0382U	1.92	1.56	81	2.04	1.72	84	53-121	9.60	(< 20)
Surrogates										
2-Methylnaphthalene-d10 (surr)		1.92	1.32	68	2.04	1.08	53	38-100	20.00	
Fluoranthene-d10 (surr)		1.92	1.51	79	2.04	1.74	85	30-111	13.70	

Batch Information

Analytical Batch: XMS14695
Analytical Method: EPA 625.1M SIM (PAH) LV
Instrument: Agilent 8890 GC/MS SYA
Analyst: HBL
Analytical Date/Time: 11/11/2024 6:32:00PM

Prep Batch: XXX50629
Prep Method: 3535 Solid Phase Ext for 8270 PAH SIM LV
Prep Date/Time: 10/11/2024 6:57:00PM
Prep Initial Wt./Vol.: 260.00mL
Prep Extract Vol: 1.00mL

Print Date: 11/27/2024 9:39:50AM

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Method Blank

Blank ID: MB for HBN 1903703 [XXX/50773]
Blank Lab ID: 1800750

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1245847003

Results by EPA 625.1M SIM (PAH) LV

Parameter	Results	LOQ/CL	DL	LOD	Units
Acenaphthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Acenaphthylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo(a)Anthracene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[a]pyrene	0.0150U	0.0200	0.00620	0.0150	ug/L
Benzo[b]Fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[g,h,i]perylene	0.0375U	0.0500	0.0150	0.0375	ug/L
Benzo[k]fluoranthene	0.0375U	0.0500	0.0150	0.0375	ug/L
Chrysene	0.0375U	0.0500	0.0150	0.0375	ug/L
Dibenzo[a,h]anthracene	0.0150U	0.0200	0.00620	0.0150	ug/L
Fluoranthene	0.0294J	0.0500	0.0150	0.0375	ug/L
Fluorene	0.0169J	0.0500	0.0150	0.0375	ug/L
Indeno[1,2,3-c,d] pyrene	0.0375U	0.0500	0.0150	0.0375	ug/L
Naphthalene	0.0564J	0.100	0.0310	0.0750	ug/L
Phenanthrene	0.0825J	0.100	0.0310	0.0750	ug/L
Pyrene	0.0232J	0.0500	0.0150	0.0375	ug/L
Surrogates					
2-Methylnaphthalene-d10 (surr)	76.9	38-100		0	%
Fluoranthene-d10 (surr)	98.8	30-111		0	%

Batch Information

Analytical Batch: XMS14715
Analytical Method: EPA 625.1M SIM (PAH) LV
Instrument: Agilent 8890 GC/MS SYA
Analyst: NGG
Analytical Date/Time: 11/15/2024 7:01:00PM

Prep Batch: XXX50773
Prep Method: SW3535A
Prep Date/Time: 11/6/2024 12:45:00PM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 11/27/2024 9:39:52AM

SGS North America Inc.

200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Member of SGS Group

Blank Spike Summary

Blank Spike ID: LCS for HBN 1245847 [XXX507769]

Blank Spike La] ID: 1800751

Date 3 nalt Aey: 11z15z2024 1d:17

u abriM x ater Vsrfa(ec, ffe. rosnyG

g C for SaP pleR 1245847006

/ eRsIR] t EPA 625.1M SIM (PAH) LV

Blank Spike W%LG

<u>) araP eter</u>	<u>Spike</u>	<u>/ eRsIb</u>	<u>/ e(WnG</u>	<u>CL</u>
3(enapQene	2	1B6	d2	W48h14 G
3(enapQ lene	2	1B1	d1	W65h121 G
3ntQa(ene	2	1B5	d8	W56h11d G
BenAoW3ntQa(ene	2	1Bd	d4	W5dh120 G
BenAo[a9t rene	2	1B0	d5	W56h120 G
BenAo[] 9 IsorantQene	2	1B8	dd	W56h12F G
BenAo[%Q9pt rene	2	2BF	106	W44h128 G
BenAo[k9IsorantQene	2	2B7	10d	W54h125 G
CQt Rene	2	2B1	105	W57h120 G
Di] enAo[acQantQa(ene	2	1B8	dd	W44h161 G
- IsorantQene	2	1B8	dd	W58h120 G
- Isorene	2	1B0	d0	W50h118 G
Inyeno[126h(y9pt rene	2	1Bd	d4	W48h160 G
NapQCalene	2	1B7	86	W46h114 G
) GenantQene	2	1B5	d7	W56h115 G
) t rene	2	2B0	100	W56h121 G

Surrogates

2hu ebQ InapQCaleneh10 WsrrG	2		78	W68h100 G
- IsorantQeneh10 WsrrG	2		d8	W60h111 G

Batch Information

3 nalt b(al BalQ XMS14715

3 nalt b(al u elQy: EPA 625.1M SIM (PAH) LV

InRrsPenb Agilent 8890 GC/MS SYA

3 nalt Rb NGG

) rep BalQ XXX50773

) rep u elQy: SW3535A

) rep DatezTiP e: 11/06/2024 12:45

Spike Inibx bVolE 2 s%L , Mra(bVol: 1 P L

Dspe Inibx bVolE , Mra(bVol:

) rinbDate: 11z27z2024 d:6d:543u

S. S NortQ3P eri(a In(E

200 x eRb) otter Drive 3n(Qora%ec3K d5518
t d07B5F2E2646 f d07B5F1B5601 wwwSRRVf oP

u eP] er of S. S. rosp



Matrix Spike Summary

Original Sample ID: 1246405009
MS Sample ID: 1801892 MS
MSD Sample ID: 1801893 MSD

QC for Samples: 1245847003

Analysis Date: 11/15/2024 21:12
Analysis Date: 11/15/2024 21:28
Analysis Date: 11/15/2024 21:44
Matrix: Water (Surface, Eff., Ground)

Results by EPA 625.1M SIM (PAH) LV

Parameter	Sample	Matrix Spike (ug/L)			Spike Duplicate (ug/L)			CL	RPD (%)	RPD CL
		Spike	Result	Rec (%)	Spike	Result	Rec (%)			
Acenaphthene	0.0308U	1.61	1.53	95	1.64	0.873	53	48-114	54.70	* (< 20)
Acenaphthylene	0.0308U	1.61	1.52	94	1.64	0.905	55	35-121	50.90	* (< 20)
Anthracene	0.0308U	1.61	1.53	95	1.64	0.860	52	* 53-119	56.00	* (< 20)
Benzo(a)Anthracene	0.0308U	1.61	1.52	95	1.64	0.964	59	* 59-120	45.00	* (< 20)
Benzo[a]pyrene	0.0123U	1.61	1.53	95	1.64	0.921	56	53-120	49.60	* (< 20)
Benzo[b]Fluoranthene	0.0308U	1.61	1.67	104	1.64	0.999	61	53-126	50.30	* (< 20)
Benzo[g,h,i]perylene	0.0308U	1.61	1.72	107	1.64	1.03	63	44-128	50.40	* (< 20)
Benzo[k]fluoranthene	0.0308U	1.61	1.58	98	1.64	1.02	62	54-125	43.50	* (< 20)
Chrysene	0.0308U	1.61	1.62	100	1.64	1.02	62	57-120	45.50	* (< 20)
Dibenzo[a,h]anthracene	0.0123U	1.61	1.65	102	1.64	1.01	62	44-131	47.70	* (< 20)
Fluoranthene	0.0308U	1.61	1.53	95	1.64	0.996	61	58-120	42.20	* (< 20)
Fluorene	0.0308U	1.61	1.49	93	1.64	0.852	52	50-118	54.70	* (< 20)
Indeno[1,2,3-c,d] pyrene	0.0308U	1.61	1.54	95	1.64	0.936	57	48-130	48.80	* (< 20)
Naphthalene	0.0417J	1.61	1.45	87	1.64	0.804	47	43-114	57.20	* (< 20)
Phenanthrene	0.0321J	1.61	1.55	94	1.64	0.890	52	* 53-115	53.90	* (< 20)
Pyrene	0.0308U	1.61	1.56	97	1.64	1.02	62	53-121	41.40	* (< 20)
Surrogates										
2-Methylnaphthalene-d10 (surr)		1.61	1.4	87	1.64	0.754	46	38-100	60.00	
Fluoranthene-d10 (surr)		1.61	1.54	95	1.64	1.02	62	30-111	40.80	

Batch Information

Analytical Batch: XMS14715
Analytical Method: EPA 625.1M SIM (PAH) LV
Instrument: Agilent 8890 GC/MS SYA
Analyst: NGG
Analytical Date/Time: 11/15/2024 9:28:00PM

Prep Batch: XXX50773
Prep Method: 3535 Solid Phase Ext for 8270 PAH SIM LV
Prep Date/Time: 11/6/2024 12:45:00PM
Prep Initial Wt./Vol.: 310.00mL
Prep Extract Vol: 1.00mL

Print Date: 11/27/2024 9:39:57AM

SGS North America Inc.

200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Member of SGS Group



1245847



SAMPLE RECEIPT FORM

Project Manager Completion				
Was all necessary information recorded on the COC upon receipt? (Temperature, COC seals, etc.?)	☒ Yes	☐ No	☐ N/A	
Was temperature between 0-6° C?	☒ Yes	☐ No	☐ N/A	If "No", are the samples either exempt* or sampled <8 hours prior to receipt?
Were all analyses received within holding time*?	☒ Yes	☐ No	☐ N/A	
Was a method specified for each analysis, where applicable? If no, please note correct methods.	☐ Yes	☐ No	☒ N/A	624/625 gm
Are compound lists specified, where applicable? For project specific or special compound lists please note correct analysis code.	☐ Yes	☐ No	☒ N/A	
If rush was requested by the client, was the requested TAT approved?	☐ Yes	☐ No	☒ N/A	If "NO", what is the approved TAT?
If SEDD Deliverables are required, were Location ID's and an NPD.L Number provided?	☐ Yes	☐ No	☒ N/A	If "NO", contact client for information.
Sample Login Completion				
Do ID's on sample containers match COC?	☒ Yes	☐ No	☐ N/A	
If provided on containers, do dates/times collected match COC?	☒ Yes	☐ No	☐ N/A	Note: If times differ <1 hr., record details below and login per COC.
Were all sample containers received in good condition?	☒ Yes	☐ No	☐ N/A	
Were proper containers (type/mass/volume/preservative) received for all samples? *See form F-083 "Sample Guide"	☒ Yes	☐ No	☐ N/A	Note: If 200.8/6020 Total Metals are received unpreserved, preserve, and note HNO3 lot here: If 200.8/6020 Dissolved Metals are received unpreserved, log in for LABFILTER and do not preserve. For all non-metals methods, inform Project Manager.
Were Trip Blanks (VOC, GRO, Low-Level Hg, etc.) received with samples, where applicable*?	☒ Yes	☐ No	☐ N/A	
Were all VOA vials free of headspace >6mm?	☒ Yes	☐ No	☐ N/A	
Were all soil VOA samples received field extracted with Methanol?	☐ Yes	☒ No	☒ N/A	
Did all soil VOA samples have an accompanying unpreserved container for % solids?	☐ Yes	☐ No	☒ N/A	
If special handling is required, were containers labelled appropriately? e.g. MI/ISM, foreign soils, lab filter, Ref Lab, limited volume	☐ Yes	☐ No	☒ N/A	
For Rush/Short Holding time, was the lab notified?	☐ Yes	☐ No	☒ N/A	
For any question answered "NO", was the Project Manager notified?	☐ Yes	☐ No	☒ N/A	PM Initials:
Was Peer Review of sample numbering/labelling completed?	☒ Yes	☐ No	☐ N/A	Reviewer Initials: AJP
Additional Notes/Clarification where Applicable, including resolution of "No" answers when a change order is not attached:				



Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>	<u>Container Id</u>	<u>Preservative</u>	<u>Container Condition</u>
1245847001-A	HCL to pH < 2	OK			
1245847001-B	HCL to pH < 2	OK			
1245847001-C	HCL to pH < 2	OK			
1245847001-D	No Preservative Required	OK			
1245847001-E	No Preservative Required	OK			
1245847002-A	HCL to pH < 2	OK			
1245847002-B	HCL to pH < 2	OK			
1245847002-C	HCL to pH < 2	OK			
1245847002-D	No Preservative Required	OK			
1245847002-E	No Preservative Required	OK			
1245847003-A	HCL to pH < 2	OK			
1245847003-B	HCL to pH < 2	OK			
1245847003-C	HCL to pH < 2	OK			
1245847003-D	No Preservative Required	OK			
1245847003-E	No Preservative Required	OK			
1245847004-A	HCL to pH < 2	OK			
1245847004-B	HCL to pH < 2	OK			
1245847004-C	HCL to pH < 2	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.

BU - The container was received with headspace greater than 6mm.

DM - The container was received damaged.

FR - The container was received frozen and not usable for Bacteria or BOD analyses.

IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.

NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.

PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

QN - Insufficient sample quantity provided.

Appendix C. Review of POA and Leaseholder Best Management
Practices

Assessment of Controls – Port of Alaska

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	A	A	A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	A	A	A

'A' = 'Adequate'

'I' = 'Inadequate'

'N/A' = 'Not Applicable'

Assessment of Controls – Matson

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	A	A	A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	A	A	A

'A' = 'Adequate'

'I' = 'Inadequate'

'N/A' = 'Not Applicable'

Assessment of Controls – Tote Maritime

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	A	A	A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	A	A	A

'A' = 'Adequate'

'I' = 'Inadequate'

'N/A' = 'Not Applicable'

Assessment of Controls – AFSC/Menzies Aviation

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	N/A	N/A	N/A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	A	A	A

'A' = 'Adequate'

'I' = 'Inadequate'

'N/A' = 'Not Applicable'

Assessment of Controls – Marathon

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	N/A	N/A	N/A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	A	A	A

'A' = 'Adequate'

'I' = 'Inadequate'

'N/A' = 'Not Applicable'

Assessment of Controls – Delta Western

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	N/A	N/A	N/A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	A	A	A

'A' = 'Adequate'

'I' = 'Inadequate'

'N/A' = 'Not Applicable'

Assessment of Controls – ABI/AS&G

Area / Concern	Source Controls	Source Reduction & Elimination Measures	BMPs
Roadways	A	A	A
Vehicle Wash Areas	N/A	N/A	N/A
Petroleums, Oils, Lubricants	A	A	A
Paints, Antifreeze, Batteries	A	A	A
Hazardous Chemicals and Wastes	A	A	A
Floatables	A	A	A
Illicit Discharges / Improper Disposal	A	A	A
Spill Prevention and Control	A	A	A
Public Education	A	A	A

'A' = 'Adequate'

'I' = 'Inadequate'

'N/A' = 'Not Applicable'

Appendix D. 2024 SWPP Team Quarterly Meeting Minutes



2000 Anchorage Port Road
Anchorage, Alaska 99501
907-343-6200
PortOfAlaska@Muni.org
PortOfAlaska.com

Subject: POA, MS4 Permit / Port SWPPP Team Q4 Meeting **Time:** 2:30 pm – 3:30 pm

Date: Thursday, February 15, 2024

ATTENDEES

Michael Rhodes	POA	Ronnie Poole	POA
Paul Rotkis	POA	Theodore Frey	POA
Jim Rypkema	ADEC	Serena Lewellyn	Marathon
Laurie Butler	Menzies/AFSC	Ryan Perrault	Marathon
Kris Shippen	ASG/ABI	Patrick Whitesell	MBI
Billy Godwin	Tote	Jessica Warner	Tote
Caitlin Self	Tote	Nichole Rehm	PTS
Monique Cortez	Matson	Eric Hohmann	PTS

AGENDA

1. Introductions

- Safety minute: Spring driving
 - o Wiper fluid – have it ready!
 - o Clean your lights (and your license plate)
 - o Clean main roads are slick smaller roads
 - o More bike & ped use this time of year

2. Meeting Goals

1. Familiarize new team members (update table below)
2. Identify ongoing and current operations, concerns or constraints on the MS4 permit / compliance process
 - a. POA
 - b. Lessees
 - c. ADEC
3. Discuss any recent issues
 - a. Illicit discharges
 - i. Summary of spills reported to date: None (it's early)
 1. 2023 spill – Matson, ~65 gallons
 - a. Diesel, source unknown, found in yard; possibly from belly-mount or agent; US Ecology conducted cleanup
 - b.
 2. Any other spills/cleanups? Lease lots?

- a.
- ~~3. Status check for 2021 spill 'complete May 2023'?~~
 - ~~a. Per ADEC, ongoing water sampling for the foreseeable~~
- b. Issues with BMPs / Construction complications
 - i. POA Stormwater site form; does this need to be reported/tracked?
 - 1. If you're not sure, please document/report and track
 - ii. **Outfall 003 – TAH analysis (hydrocarbons) are above acceptable limits**
 - 1. **Both 2023 samples indicated elevated TAH (benzene, xylenes, etc)**
- c. Issues with compliance
- d. **Overall, are there any items, issues concerns or constraints that leaseholders would like to see revised in the Port's 2025 MS4 Permit Renewal?**
 - i. No painting/stenciling for storm drain inlets (Paul R)

3. Discussion Topics

- 1. MS4 Permit
 - a. 2023 MS4 Annual Report; **going in today**
 - i. **Thank you all for your contributions**
 - b. Storm drain inlet stenciling
 - i. Program for 2024?
 - 1. ('Need to come up with other means than stenciling')
 - ii. Other options to repeated (paint) stenciling
 - 1. Depressed medallions, stamps on SD lids
- 2. Storm drain system evaluations/upgrades
 - a. Planning – ongoing (grant applications and funding continuously sought)
 - b. System 1 – in design
 - c. System 2 – to come next, along with SDS005; advertised RFP ~ late 2024 (construction)
- 3. Earthquake Repairs (2023; SC Construction awarded, under construction)
 - a. All surface disturbances complete
 - b. Pipe lining on SDS001 in 2024
- 4. Sand Tent/POA Admin
 - a. New sand tent location on Tract J near Security
 - i. Construction 'substantially completed' by 2024
 - ii. Roger Graves Rd improvements at the same time
 - iii. Expect Roger Graves are to be 'busy'
 - b. POA Admin Bldg construction underway
 - i. Area paved (asphalt), BMPs removed, ground disturbance largely complete
 - ii. Construction complete by Spring 2024
 - iii. PAW to check on status of CS stockpile (overwinter on location?)
 - 1. Also, CS stockpile over east of checkpoint 3 (E of Roger Graves)
- 5. Other projects
 - a. Ongoing from 2023
 - i. Northern Expansion Stabilization, Phase I
 - 1. Buttoned up (at least for winter)
 - b. New for 2024

- i. Tote – asphalt cut/replace (sidewalks, front/read of Admin)
- ii. Matson
- iii. Others?

6. Schedule

a. Inspections

- i. 2024 sampling not yet planned (snowmelt and outfall access)
- ii. Anticipate first iteration ~mid-May
- iii. Lot inspections ongoing
 - 1. No dumping snow into inlet
- iv. Will be inspecting SDS 003 thoroughly to determine source of TAH 'spike'

b. Monitoring

- i. A few SD inlet issues
- ii. Check your BMPS/protection
- iii. Outfall project has changed storm system a bit (structures, pipe alignments, some valves)
 - 1. As-builts should start becoming available in 2024

c. IDDE Training

- i. Video is available on youtube
- ii. Self-taught is fine (send attendee roster to Pat W)
- iii. Paul R has materials at POA
- iv. Pat W can also provide IDDE training

d. 2024 Annual Report due February 15, 2025

7. Activities

a. Regular/ongoing

- i. Reminder; if doing any excavation at POA, get a dig permit (Paul R)
 - 1. Locates to be contracted out, permit still held by POA
- ii. Keep in mind that utility locates can take some time to process/validate (esp. in winter conditions)

b. 2024 Projects?

- ~~i. Cell tower (2023; paused for contaminant solution, change in Contractor)~~
- ii. POA Microgrid (2023) – construction underway Aug 2023
- iii. PCT access rd construction – may occur in 2024

c. 'Area to store tailings to triage (for POA projects)'

8. Next meeting

- a. May 16, 2024

4. Action Items

Action Item Log

Action	Assigned	Due Date
Complete annual IDDE training	Leaseholders & POA	Dec 31, 2023
Identify discharge issues	Leaseholders & POA	Ongoing
Conduct outfall / wet weather monitoring	POA	May, Oct
Set up invite for 2024 SWPP quarterly meetings	PAW	Nov 2023
Provide IDDE training materials for reporting!	Leaseholders & POA	Jan 15, 2024
Provide list of spills/cleanup activity on lots	Leaseholders & POA	Jan 15, 2024

5. General Discussion

ROSTER! With contact details

Name	Organization	Contact #	Email
Michael Rhodes	POA	343-6209 (w) /	Michael.Rhodes2@anchorageak.gov
Paul Rotkis	POA		Paul.rotkis@anchorageak.gov
Ronnie Poole	POA	343-6202 (w) / 802-8289 (m)	Ronnie.poole@anchorageak.gov
Theodore Frey	POA		Theodore.frey@anchorageak.gov
Jim Rypkema	ADEC		James.rypkema@alaska.gov
Laurie Butler	AFSC (oper. Menzies_	(907) 231-4043 (m)	Laurie.butler@menziesaviation.com
Kris Shippen	ASG/ ABI		Kris.shippen@anchsand.com
Scott DeWandel	ASG/ ABI		Scott.dewandel@anchsand.com
Billy Godwin	Tote		bgodwin@totemaritime.com
Mike Thrasher	Tote		mthrasher@totemaritime.com
Jessica Warner	Tote		jwarner@totemaritime.com
Monique Cortez	Matson	263-5045 (w) / 223-6286 (m)	mcortez@matson.com
Serena Lewellyn	Marathon	322-5168 (m)	slewellyn@marathonpetroleum.com
Ryan Perrault	Marathon		rperrault@marathonpetroleum.com
Patrick Whitesell	MBI	273-1603 (w) / 602-5352 (m)	Patrick.whitesell@mbakerintl.com
RaeAnne Hebnes, P.E.	MBI	273-1618 (w) /	rhebnes@mbakerintl.com
Nichole Rehm	PTS	360-7835 (m)	nicholerehm@ptsincalaska.com
Eric Hohmann	PTS		erichohmann@ptsincalaska.com



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Subject: POA, MS4 Permit / Port SWPPP Team Q2 Meeting **Time:** 2:30 pm – 3:30 pm

Date: Thursday, May 23, 2024

ATTENDEES

Michael Rhodes	POA	Ronnie Poole	POA
Ruthanna Carr	POA	Theodore Frey	POA
Jim Rypkema	ADEC	Serena Lewellyn	Marathon
Laurie Butler	Menzies/AFSC	Ryan Perrault	Marathon
Kris Shippen	ASG/ABI	Patrick Whitesell	MBI
Billy Godwin	Tote	Jessica Warner	Tote
Caitlin Self	Tote	Nichole Rehm	PTS
Monique Cortez	Matson	Dustin Richmond	PTS

AGENDA

1. Safety Minute

- Wildlife safety!
 - Moose calves = protective cows
 - Bears are awake (and looking for moose calves)

2. Introduction & Meeting Goals

1. Familiarize new team members (update table below)
 - a. Ruthanna Carr, POA
 2. Identify ongoing and current operations, concerns or constraints on the MS4 permit / compliance process
 - a. POA
 - b. Lessees
 - c. ADEC
 3. Discuss any recent issues
 - a. Illicit discharges
 - i. Summary of spills reported to date: None
 - a. 'Unknown substance' (green goo) seeping out of hill slope at old 'Landfill LF-04'
 - b. Diesel spill (STG) up at Atlas tower (also hydraulic fluid); ADEC notified, actions taken by STG
- 2. Any other spills/cleanups? Lease lots?**
- a.

- b. Issues with BMPs / Construction complications
 - i. POA Stormwater site form; does this need to be reported/tracked?
 - 1. If you're not sure, please document/report and track
 - ii. **Outfall 003 – TAH analysis (hydrocarbons) are above acceptable limits**
 - 1. **Both 2023 samples indicated elevated TAH (benzene, xylenes, etc)**
 - 2. **2024; will conduct up-down system sampling to hone in on contaminant source**
- c. Issues with compliance
- d. **Overall, are there any items, issues concerns or constraints that leaseholders would like to see revised in the Port's 2025 MS4 Permit Renewal?**
 - i. No painting/stenciling for storm drain inlets (Paul R)

3. Discussion Topics

- 1. MS4 Permit
 - a. 2023 MS4 Annual Report; **going in today**
 - i. **Thank you all for your contributions**
 - b. Storm drain inlet stenciling
 - i. Program for 2024?
 - ii. Other options to repeated (paint) stenciling
 - 1. Depressed medallions, stamps on SD lids
- 2. Storm drain system evaluations/upgrades
 - a. System 1 – in design
 - b. System 2 – to come next, may be added to SDS 001 design timeframe
 - c. SDS005 – 2025 or so
 - d. SDS 001/002, construction in late 2024 or into 2025
- 3. Earthquake Repairs (2023; SC Construction awarded, under construction)
 - a. ~~All surface disturbances complete~~
 - b. Pipe lining on SDS001 in 2024
 - c. **Additional surface disturbance necessary in front of TOTE Mtce Bldg**
 - i. **Expect 1-2 days disturbance (40 feet of pipe)**
- 4. Sand Tent/POA Admin
 - a. New sand tent location on Tract J near Security
 - i. Construction 'substantially completed' by END OF 2024
 - ii. Roger Graves Rd improvements at the same time
 - 1. Correction – Roger Graves Rd 2025, at earliest
 - b. POA Admin Bldg construction largely complete (?)
 - i. Area paved (asphalt), BMPs removed, ground disturbance largely complete
- 5. Other projects
 - a. Ongoing from 2023
 - i. Northern Expansion Stabilization, Phase I
 - 1. Buttoned up (at least for winter)
 - b. New for 2024
 - i. Tote – asphalt cut/replace (sidewalks, front/read of Admin)
 - 1. A couple of sizable problem spots in the asphalt

- a. N end of gate house
 - b. Near Mtce Shop
 - ii. Matson
 - iii. Others?
- 6. Schedule
 - a. Inspections
 - i. 2024 sampling
 - 1. Outfalls 001, 002, 003 sampled 5/22
 - ii. Lot inspections ongoing
 - iii. Will be inspecting SDS 003 thoroughly to determine source of TAH 'spike'
 - b. Monitoring
 - i. A few SD inlet issues
 - ii. Check your BMPs/protection
 - 1. As-builts should start becoming available in 2024
 - c. IDDE Training
 - i. Video is available on youtube
 - ii. Self-taught is fine (send attendee roster to Pat W)
 - iii. Paul R has materials at POA
 - iv. Pat W can also provide IDDE training
 - d. 2024 Annual Report due February 15, 2025
- 7. Activities
 - a. Regular/ongoing
 - i. Reminder; if doing any excavation at POA, get a dig permit (**Ruthanna C**)
 - 1. Locates to be contracted out, permit still held by POA
 - ii. Keep in mind that utility locates can take some time to process/validate (esp. in winter conditions)
 - b. 2024 Projects?
 - i. POA Microgrid (2023) – construction underway Aug 2023
 - ii. PCT access rd construction – may occur in 2024
 - c. 'Area to store tailings to triage (for POA projects)'
- 8. Next meeting
 - a. August 15, 2024

4. Action Items

Action Item Log

Action	Assigned	Due Date
Complete annual IDDE training	Leaseholders & POA	Dec 31, 2024
Identify discharge issues	Leaseholders & POA	Ongoing
Conduct outfall / wet weather monitoring	POA	May , Oct
Dry weather inspections	PAW	Ongoing
Set up invite for 2025 SWPP quarterly meetings	PAW	Nov 2024
Provide IDDE training materials for reporting!	Leaseholders & POA	Jan 15, 2025
Provide list of spills/cleanup activity on lots	Leaseholders & POA	Jan 15, 2025

5. General Discussion

ROSTER! With contact details

Name	Organization	Contact #	Email
Michael Rhodes	POA	343-6209 (w) /	Michael.Rhodes2@anchorageak.gov
Ruthanna Carr	POA		Ruthanna.carr@anchorageak.gov
Ronnie Poole	POA	343-6202 (w) / 802-8289 (m)	Ronnie.poole@anchorageak.gov
Theodore Frey	POA		Theodore.frey@anchorageak.gov
Jim Rypkema	ADEC		James.rypkema@alaska.gov
Laurie Butler	AFSC (oper. Menzies_	(907) 231-4043 (m)	Laurie.butler@menziesaviation.com
Kris Shippen	ASG/ ABI		Kris.shippen@anchsand.com
Scott DeWandel	ASG/ ABI		Scott.dewandel@anchsand.com
Billy Godwin	Tote		bgodwin@totemaritime.com
Mike Thrasher	Tote		mthrasher@totemaritime.com
Jessica Warner	Tote		jwarner@totemaritime.com
Monique Cortez	Matson	263-5045 (w) / 223-6286 (m)	mcortez@matson.com
Serena Lewellyn	Marathon	322-5168 (m)	slewellyn@marathonpetroleum.com
Ryan Perrault	Marathon		riperrault@marathonpetroleum.com
Patrick Whitesell	MBI	273-1603 (w) / 602-5352 (m)	Patrick.whitesell@mbakerintl.com
RaeAnne Hebnes, P.E.	MBI	273-1618 (w) /	rhebnes@mbakerintl.com
Nichole Rehm	PTS	360-7835 (m)	nicholerehm@ptsincalaska.com
Dustin Richmond	PTS		dustinrichmond@ptsincalaska.com



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Subject: POA, MS4 Permit / Port SWPPP Team Q3 Meeting **Time:** 2:30 pm – 3:30 pm

Date: Thursday, August 15, 2024

ATTENDEES

Michael Rhodes	POA	Ronnie Poole	POA
Ruthanna Carr	POA	Theodore Frey	POA
Jim Rypkema	ADEC	Serena Lewellyn	Marathon
Laurie Butler	Menzies/AFSC	Ryan Perrault	Marathon
Kris Shippen	ASG/ABI	Patrick Whitesell	MBI
Billy Godwin	Tote	Jessica Warner	Tote
Caitlin Self	Tote	Nichole Rehm	PTS
Monique Cortez	Matson	Dustin Richmond	PTS

AGENDA

1. Safety Minute; ladder safety!

- Work or home (gutters, painting, etc)
- 165,000 injuries/year from ladders
- Most 'death by ladder' events; 10' or less
- Safety angle = 4:1 or less
- Limit your lateral reach!

2. Introduction & Meeting Goals

1. Familiarize new team members (update table below)
 - a. (Ruthanna Carr, POA)
2. Identify ongoing and current operations, concerns or constraints on the MS4 permit / compliance process
 - a. POA
 - b. Lessees
 - c. ADEC
3. Discuss any recent issues
 - a. Illicit discharges
 - i. Summary of spills reported to date: None
 1. 'Unknown substance' (green goo) seeping out of hill slope at old 'Landfill LF-04' (Mar 2024)
 2. Diesel spill (STG) up at Atlas tower (also hydraulic fluid); ADEC notified, actions taken by STG (Apr 2024)

3. Sheen noted @ SDS004 outfall, 7/26; discharge halted, Republic Svcs contacted

ii. Any other spills/cleanups? Lease lots?

- 1.
- b. Issues with BMPs / Construction complications
- c. Issues with compliance
- d. Issues noticed during site inspections

3. Discussion Topics

1. MS4 Permit
 - a. Storm drain inlet stenciling
 - i. Program for 2024 – underway?
 - ii. Other options to repeated (paint) stenciling
 - b. 2024 IDDE training
 - i. POA and leaseholder personnel
 - c. Calling for mods to 2025 MS4 renewal**
2. Storm drain system evaluations/upgrades
 - a. System 1 – in design
 - b. System 2 – being added to SDS 001
 - c. SDS005 – 2025 or so
 - d. SDS 001/002, construction in 2025
3. Earthquake Repairs (2023; SC Construction awarded, under construction)
 - a. Pipe lining on SDS001 in 2024 (Sep)
 - b. Additional surface disturbance necessary in front of TOTE Mtce Bldg**
 - i. Expect 1-2 days disturbance (40 feet of pipe)**
 - ii. Completed July 2024**
4. Sand Tent/POA Admin
 - a. New sand tent location on Tract J near Security
 - i. Construction ‘substantially completed’ in **2025/2026**
 - ii. Roger Graves Rd improvements
 1. 2025 construction, maybe
 - ~~b. POA Admin Bldg – done!~~
5. Other projects
 - a. Ongoing from 2023
 - i. Northern Expansion Stabilization, Phase I
 - 1. Status?**
 - 2. ‘In progress’ (no known close out date)**
 - b. New for 2024
 - i. Tote – asphalt cut/replace (sidewalks, front/rear of Admin)
 1. A couple of sizable problem spots in the asphalt
 - ~~a. N end of gate house~~
 - ~~b. Near Mtce Shop~~
 2. At most some follow-up patching for 2024
 - ii. Matson

1. Asphalt work underway or complete in yard
 2. Sep; monitoring wells scheduled to be dug
 - a. Contaminant source by Admin bldg
 - iii. Others?
 1. 'R&M conducting sampling between Tote/Matson yards'
 - a. Sample results? (MBI PT deployment)
6. Schedule
 - a. Inspections
 - i. 2024 sampling
 1. Outfalls 001, 002, 003 sampled 5/22
 2. 2024 Sample 2; September
 - ii. Lot inspections – ongoing
 - iii. **Outfall 003 – TAH analysis (hydrocarbons) above acceptable limits**
 1. Both 2023 samples indicated elevated TAH (benzene, xylenes, etc)
 2. 2024 sample 1 – elevated TAH
 3. Beginning sampling plan up-down system to identify contaminant source location
 4. September
 - b. Monitoring
 - i. A few SD inlet issues
 - ii. Check your BMPs/protection
 - c. IDDE Training
 - i. Video is available on youtube
 - ii. Self-taught is fine, or having a 3rd party (Kristi M from R&M)
 1. Send attendee roster to Pat W
 - iii. Ruthanna has materials at POA
 - iv. Pat W can also provide IDDE training
 - d. 2024 Annual Report due February 15, 2025
7. Activities
 - a. Regular/ongoing
 - i. Reminder; if doing any excavation at POA, get a dig permit (Ruthanna C)
 1. Locates to be contracted out, permit still held by POA
 - ii. Keep in mind that utility locates can take some time to process/validate (esp. in winter conditions)
 - b. 2024 Projects?
 - i. POA Microgrid (2023) – construction underway Aug 2023
 - ii. PCT access rd construction – may occur in 2024
 - c. 'Area to store tailings to triage (for POA projects)'
8. Next meeting
 - a. November 21, 2024

4. Action Items

Action Item Log

Action	Assigned	Due Date
Complete annual IDDE training	Leaseholders & POA	Dec 31, 2024

Identify discharge issues	Leaseholders & POA	Ongoing
Conduct outfall / wet weather monitoring	POA	May, Sep
Dry weather inspections	PAW	Ongoing
Set up invite for 2025 SWPP quarterly meetings	PAW	Nov 2024
Provide IDDE training materials for reporting!	Leaseholders & POA	Jan 15, 2025
Provide list of spills/cleanup activity on lots	Leaseholders & POA	Jan 15, 2025

5. General Discussion

ROSTER! With contact details

Name	Organization	Contact #	Email
Michael Rhodes	POA	343-6209 (w) /	Michael.Rhodes2@anchorageak.gov
Ruthanna Carr	POA		Ruthanna.carr@anchorageak.gov
Ronnie Poole	POA	343-6202 (w) / 802-8289 (m)	Ronnie.poole@anchorageak.gov
Theodore Frey	POA		Theodore.frey@anchorageak.gov
Jim Rypkema	ADEC		James.rypkema@alaska.gov
Laurie Butler	AFSC (oper. Menzies_	(907) 231-4043 (m)	Laurie.butler@menziesaviation.com
Kris Shippen	ASG/ ABI		Kris.shippen@anchsand.com
Scott DeWandel	ASG/ ABI		Scott.dewandel@anchsand.com
Billy Godwin	Tote		bgodwin@totemaritime.com
Mike Thrasher	Tote		mthrasher@totemaritime.com
Jessica Warner	Tote		jwarner@totemaritime.com
Monique Cortez	Matson	263-5045 (w) / 223-6286 (m)	mcortez@matson.com
Serena Lewellyn	Marathon	322-5168 (m)	slewellyn@marathonpetroleum.com
Ryan Perrault	Marathon		riperrault@marathonpetroleum.com
Patrick Whitesell	MBI	273-1603 (w) / 602-5352 (m)	Patrick.whitesell@mbakerintl.com
RaeAnne Hebnes, P.E.	MBI	273-1618 (w) /	rhebnes@mbakerintl.com
Nichole Rehm	PTS	360-7835 (m)	nicholerehm@ptsincalaska.com
Dustin Richmond	PTS		dustinrichmond@ptsincalaska.com



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Subject: POA, MS4 Permit / Port SWPPP Team Q3 Meeting **Time:** 2:30 pm – 3:30 pm

Date: Thursday, November 21, 2024

ATTENDEES

Bill Carlson	POA	Ronnie Poole	POA
Ruthanna Carr	POA	Theodore Frey	POA
Jim Rypkema	ADEC	Serena Lewellyn	Marathon
Laurie Butler	Menzies/AFSC	Ryan Perrault	Marathon
Kris Shippen	ASG/ABI	Patrick Whitesell	MBI
Billy Godwin	Tote	Jessica Warner	Tote
Caitlin Self	Tote	Nichole Rehm	PTS
Monique Cortez	Matson	Dustin Richmond	PTS

AGENDA

1. Safety Minute; ladder safety! (yes, again)

- Christmas lights, snow clearing, etc
- 165,000 injuries/year from ladders
- Most 'death by ladder' events; 10' or less
- Safety angle = 4:1 or less
- Limit your lateral reach!

2. Introduction & Meeting Goals

1. Familiarize new team members (update table below)
 - a. William (Bill) Carlson, POA
2. Identify ongoing and current operations, concerns or constraints on the MS4 permit / compliance process
 - a. POA
 - b. Lessees
 - c. ADEC
3. Discuss any recent issues
 - a. Illicit discharges
 - i. Summary of spills reported to date:
 1. 'Unknown substance' (green goo) seeping out of hill slope at old 'Landfill LF-04' (Mar 2024)
 2. Diesel spill (STG) up at Atlas tower (also hydraulic fluid); ADEC notified, actions taken by STG (Apr 2024)

3. Sheen noted @ SDS004 outfall, 7/26; discharge halted, Republic Svcs contacted; subsequent checks appear clean

ii. Any other spills/cleanups? Lease lots?

- 1.
- b. Issues with BMPs / Construction complications
- c. Issues with compliance
- d. Issues noticed during site inspections

3. Discussion Topics

1. MS4 Permit
 - a. Storm drain inlet stenciling
 - i. Program for 2024 – underway?
 - ii. Other options to repeated (paint) stenciling
 - b. 2024 IDDE training
 - i. POA and leaseholder personnel
 - c. **LAST CALL for mods to 2025 MS4 renewal**
 - i. MS4 Permit renewal deadline: February 2025
 - ii. **PAW to work with Jim Rypkema (?) on materials required for renewal request**
2. Storm drain system evaluations/upgrades
 - a. System 1 – in design
 - b. System 2 – added to SDS 001, design following
 - c. SDS005 – design in 2025
 - d. SDS 001/002, construction starting 2025
3. Earthquake Repairs (2023; SC Construction awarded, under construction)
 - a. **Complete?**
4. Sand Tent/POA Admin
 - a. New sand tent location on Tract J near Security
 - i. Construction ‘substantially completed’ in 2025/2026
 - ii. Roger Graves Rd improvements
 1. 2025 construction, maybe
5. Other projects
 - a. Ongoing from 2023
 - i. Northern Expansion Stabilization, Phase I
 1. ‘In progress’ (**close out date known?**)
 - b. New for 2024
 - i. Tote – all done (presumably) with ground-disturbing activities?
 - ii. Matson
 1. Sep; monitoring wells scheduled to be dug
 - a. Contaminant source by Admin bldg
 - iii. Others?
 1. ‘R&M conducting sampling between Tote/Matson yards’
 - a. Sample results? (MBI PT deployment)
6. Schedule
 - a. Inspections

- i. 2024 sampling – **done!**
 - 1. Outfalls 001, 002, 003 sampled 5/22 and 10/06
 - a. Jim – notified by SGS (Nov 20) that Outfall 3 sample (PAH) was ‘extracted outside of parameters’ and thus not reliable’
 - ii. Lot inspections – ongoing
 - iii. **Outfall 003 – TAH analysis (hydrocarbons) above acceptable limits**
 - 1. Both 2023 samples indicated elevated TAH (benzene, xylenes, etc)
 - 2. 2024 sample 1 – elevated TAH
 - 3. Sampling plan set up in Sep 2024; not enough water in system to collect
 - b. Monitoring
 - i. Winter shutdown
 - ii. Maintain systems; no frozen switches/valves
 - iii. **Don’t plow snow over coastal embankment**
 - c. **IDDE Training**
 - i. Video is available on youtube
 - ii. Self-taught is fine, or having a 3rd party (Kristi M from R&M)
 - 1. Send attendee roster to Pat W
 - iii. Ruthanna has materials at POA
 - iv. Pat W can also provide IDDE training
 - d. 2024 Annual Report due February 15, 2025
 - i. Therefore, need all POA and leaseholder IDDE training logs by mid-January 2025
7. Activities
- a. Regular/ongoing
 - i. Reminder; if doing any excavation at POA, get a dig permit (Ruthanna C)
 - 1. Locates to be contracted out, permit still held by POA
 - ii. Utility locates take time to process/validate, esp. in winter conditions
 - b. 2024 Projects?
 - i. POA Microgrid (2023) – construction underway Aug 2023
 - ii. PCT access rd construction – may occur in 2024
 - c. ‘Area to store tailings to triage (for POA projects)’
8. Next meeting
- a. February 20, 2025

4. Action Items

Action Item Log

Action	Assigned	Due Date
Complete annual IDDE training	Leaseholders & POA	Dec 31, 2024
Identify discharge issues	Leaseholders & POA	Ongoing
Conduct outfall / wet weather monitoring	POA	May, Oct
Dry weather inspections	PAW	Ongoing
Set up invite for 2025 SWPP quarterly meetings	PAW	Nov 2024
Provide IDDE training materials for reporting!	Leaseholders & POA	Jan 15, 2025
Provide list of spills/cleanup activity on lots	Leaseholders & POA	Jan 15, 2025
Submit MS4 Permit Renewal Package	POA	February 2025

5. Roster

With contact details

Name	Org.	Contact #	Email
Bill Carlson	POA	343-6209 (w)	William.Carlson@anchorageak.gov
Ruthanna Carr	POA		Ruthanna.carr@anchorageak.gov
Ronnie Poole	POA	343-6202 (w) / 802-8289 (m)	Ronnie.poole@anchorageak.gov
Theodore Frey	POA	(907) 230-2813 (m)	Theodore.frey@anchorageak.gov
Jim Rypkema	ADEC		james.rypkema@alaska.gov
Laurie Butler	AFSC (Menzies)	(907) 231-4043 (m)	Laurie.butler@menziesaviation.com
Kris Shippen	ASG/ ABI		Kris.shippen@anchsand.com
Scott DeWandel	ASG/ ABI		Scott.dewandel@anchsand.com
Billy Godwin	Tote		bgodwin@totemaritime.com
Mike Thrasher	Tote		mthrasher@totemaritime.com
Jessica Warner	Tote		jwarner@totemaritime.com
Monique Cortez	Matson	263-5045 (w)/ 223-6286 (m)	mcortez@matson.com
Serena Lewellyn	Marathon	322-5168 (m)	slewellyn@marathonpetroleum.com
Ryan Perrault	Marathon		riperrault@marathonpetroleum.com
Patrick Whitesell	MBI	273-1603 (w)/ 602-5352 (m)	Patrick.whitesell@mbakerintl.com
RaeAnne Hebnes, P.E.	MBI	273-1618 (w) /	rhebnes@mbakerintl.com
Nichole Rehm	PTS	360-7835 (m)	nicholerehm@ptsincalaska.com
Dustin Richmond	PTS		dustinrichmond@ptsincalaska.com