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NYSDEC COSCO SITE
(ID NO. 3-44-035)
SPRING VALLEY, NEW
YORK**

**PERIODIC REVIEW REPORT APRIL 2021-APRIL 2022
NYSDEC COSCO SITE (ID NO. 3-44-035)SPRING VALLEY,
NEW YORK**

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Recipient **Robert Strang, E.I.T.**
Division of Environmental Remediation
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Prepared by **Sarah Traval, Robert Hornung, P.G.**
Checked by **Paul D'Annibale, P.G.**
Approved by **Doug Crawford, P.E.**

Ramboll
94 New Karner Road
Suite 106
Albany, NY 12203
USA

T 518-724-7272
F 315-463-7554
<https://ramboll.com>

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EXECUTIVE SUMMARY

In 1978, the Rockland County Department of Health (RCDOH) identified tetrachloroethene (PCE), trichloroethene (TCE), dichloroethene (DCE), and 1,1,1-trichloroethane (1,1,1-TCA) in the well field operated by the Spring Valley Water Company. The Consolidated Stamp Company (COSCO) Site (the Site) and Continental Plastic Company (CPC) facility were identified as potential sources for the contamination at the former Spring Valley Well Field Site (ID No. 3-44-018). The results of a survey performed by Spring Valley Water Company in 1979 found that the CPC facility was discharging approximately 20 to 30 gallons per minute (gpm) of TCE and PCE contaminated non-contact cooling water into Reach B Diversion. In addition, The COSCO facility was using TCE as part of a vapor degreasing process and discharging the rinse water into Reach B Diversion (Aztech, 2020).

From 1987 to 1990, a Remedial Investigation/Feasibility Study (RI/FS) was performed to evaluate potential source areas for Site-related constituents of concern (COCs), PCE and its associated degradation products TCE, DCE, and vinyl chloride (VC). A Record of Decision (ROD) was issued by the New York State Department of Environmental Conservation (NYSDEC) for the Site in March 1990 and amended in 1999. Remedial actions to address the Site-related COCs were conducted between 1990 and 2010.

In November 2003, a groundwater extraction and treatment (GWE&T) system was placed into operation, consisting of two overburden recovery wells (RW-1S and RW-8S) and one bedrock recovery well (RW-3D). The GWE&T system initially included treatment of extracted groundwater via ultraviolet light and peroxide oxidation. In December 2011, the GWE&T system was redesigned, resulting in replacement of the ultraviolet light and peroxide oxidation treatment with an air stripper. Currently, only bedrock recovery well RW-3D is actively recovering groundwater. Overburden recovery wells RW-1S and RW-8S have been offline since the fall of 2015.

The current Institutional Controls governing the Site include the August 1999 ROD amendment and the 2022 *Site Management Plan* (SMP; Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022). Adherence to Institutional Controls is discussed within the SMP. The Engineering Controls at the Site consist of the asphalt cap installed over the Tailings Dump Area, a security perimeter fence, the sub-slab depressurization system (SSDS) installed off-Site at 47 Commerce Street, the GWE&T system, and the overburden and bedrock monitoring well network.

Site monitoring and reporting activities are performed by Ramboll, and Operation and Maintenance activities are performed by LaBella Associates (LaBella).

1. INTRODUCTION

1.1 Introduction

This Periodic Review Report (PRR) has been prepared by Ramboll for the New York State Department of Environmental Conservation (NYSDEC) to document the implementation of, and compliance with, Site Management (SM) requirements for the COSCO Site located in Spring Valley, New York, as discussed in the 2022 SMP (Ramboll, 2022). This PRR was prepared in accordance with the Work Assignment (WA) (#D009810-03) submitted to the NYSDEC on June 1, 2020 and approved on June 19, 2020.

This PRR covers the reporting period from April 4, 2021 through April 4, 2022 and summarizes the Site activities performed by Ramboll and Operation and Maintenance (O&M) activities performed by LaBella. The results and a general summary of the O&M activities performed by LaBella are also incorporated in this PRR.

1.1.1 Site Location and Description

The Site is located at 15 West Street, in the village of Spring Valley, Rockland County, New York (**Figure 1-1**). The Site is managed under the New York State Inactive Hazardous Waste Disposal Site Remedial Program administered by NYSDEC (Ramboll, 2020). The Site is listed by the NYSDEC as a Class 4 Inactive Hazardous Waste Disposal Site (ID No. 3-44-035). Class 4 sites are hazardous waste sites that have been properly closed but require continued O&M of remedial systems and/or continued site monitoring.

The Site is the location of the former COSCO facility located at 15 West Street, and the former CPC facility, located at 2 North Cole Avenue, about 200 feet northwest of the former COSCO facility (NYSDEC, 1999). The COSCO property is bound to the east by West Street, to the south by West Central Avenue and to the north by an inactive Conrail line and right-of-way. Industrial and commercial facilities are located on the north side of the right-of-way including the former CPC facility, a communications tower, and the Spring Valley Department of Public Works (DPW) maintenance facility.

A drainage way, known as the Reach B Diversion (**Figure 1-2**) runs between the facilities. The drainage way originates to the southwest and continues to the northeast and discharges into the West Branch of Pascack Brook, east of the Site. The Tailings Dump Area is an approximate 18,750 square-foot, triangular-shaped, and fenced area at the western end of the property. At present, the Tailings Dump Area is the only portion of the original Site that remains within the current Site boundaries as defined by NYSDEC.

1.2 Remedial History

In 1978, the RCDOH identified PCE, TCE, DCE, and 1,1,1-TCA in the well field operated by the Spring Valley Water Company (Aztech, 2020). The COSCO facility and CPC facility were identified as potential sources for the contamination at the former Spring Valley Well Field Site (ID No. 3-44-018). The results of a survey performed by Spring Valley Water Company in 1979 found that the CPC facility was discharging approximately 20 to 30 gpm of TCE and PCE contaminated non-contact cooling water into Reach B Diversion. In addition, The COSCO facility was using TCE as part of a vapor degreasing process and discharging the rinse water into Reach B Diversion. In

1980, Reach B Diversion was diverted away from the former Spring Valley Well Field Site into the West Branch of the Pascack Brook. After reconfiguring the discharge for Reach B Diversion, the former waterway was sampled at multiple locations for volatile organic compounds (VOCs) in soil, sediment, and surface water. In addition, semi-volatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyls (PCBs) were identified in the Tailings Dump Area (Aztech, 2016).

From 1987 to 1990, an RI/FS was performed for the Site by GHR Engineering Associates, Inc. The objective of the RI/FS was to evaluate potential source areas for Site-related constituents of concern (COCs), PCE and its associated degradation products TCE, DCE, and VC.

As documented in the RI Report, the former soil source area was located north of the COSCO facility and extended east-west from the east side of bedrock monitoring well GP-4D to east of overburden recovery well RW-1S. The northern extent of source area soil was located south of the Conrail track line that extends east-west north of the COSCO facility. The approximate impacted area of soil was 140-feet long by 40-feet wide (**Figure 1-2**). The maximum historical concentrations of PCE, TCE, and DCE in source area soils were 1.9 parts per million (ppm), 13 ppm, and 2.6 ppm, respectively. Cyanide, cadmium, lead, and zinc were detected in source area soils with maximum concentrations of 28 ppm, 4.2 ppm, 1,140 ppm and 4,120 ppm, respectively. Concentrations of other inorganic constituents detected in source area soils were within background values (Aztech, 2020).

Site-related COCs were not detected in soils within the Tailings Dump Area during the RI. However, several SVOCs including polycyclic aromatic hydrocarbons (PAHs) were detected. The maximum concentrations of PAHs detected were approximately 90 ppm. In addition, pesticides 4,4-DDT and gamma chlordane, and PCBs were detected in one soil sample from the Tailings Dump Area. Inorganic constituents cyanide and cadmium were also detected in the Tailings Dump Area (similar to source area soils).

Sediment samples collected from the former waterway drainage channel (Reach B Diversion) had detected concentrations of PCE, TCE, and DCE with a maximum total VOC concentration of 38.7 ppm in a sediment sample collected from the DPW property (north of the soil source area).

Site-related COCs were detected in overburden groundwater at a maximum total concentration of 24,861 parts per billion (ppb) and in bedrock groundwater at a maximum total concentration of 15,437 ppb.

Following the RI, an FS was performed to identify, screen, and evaluate potential remedial alternatives and a ROD was issued by NYSDEC for the Site in March 1990. The ROD detailed selected remedies to address contamination at the COSCO Site and CPC facility, which included:

- Source area groundwater extraction and treatment by ultraviolet (UV) chemical oxidation and polishing;
- Source area soil and sediment soil vapor extraction (SVE); and,
- Capping of the Tailings Dump Area to prevent human exposure to remaining contaminated soil.

Pursuant to the results of the RI and a petition from the Spring Valley Water Company to delist the Site, the Site boundaries were redefined, the COSCO Site and CPC facility were listed under the New York State Inactive Hazardous Waste Disposal Site Remedial Program, and the former Spring Valley Well Field Site was delisted in December 1990.

Two post-ROD groundwater studies were conducted to evaluate groundwater flow in the bedrock aquifer. The first study was performed in the summer of 1990 by COSCO and Sara Lee Corporation (Sara Lee).¹ The second study, a supplemental RI, was performed in 1992 by COSCO, Sara Lee, and the Spring Valley Water Company. In March of 1996, COSCO and Sara Lee settled with NYSDEC to contribute to past and future costs for remediation of the Site.

A pre-design investigation (PDI) was performed in 1997 and 1998 by Camp Dresser and McKee on behalf of NYSDEC to fill identified data gaps and evaluate the appropriateness of the remedial action recommended in the 1990 ROD. Field investigations performed during the PDI included:

- Soil and groundwater sampling;
- Aquifer pump testing; and,
- Vapor extraction pilot testing.

Six soil borings were completed in the source area. The soil borings were advanced from eight to twenty feet below grade, depending on location at the Site. Soil samples were collected at four-foot intervals. Fifteen soil samples were collected during the soil boring program. Total VOC concentrations detected in soil ranged from non-detect to 0.726 ppm (approximately one-quarter of the maximum concentration of total VOCs in soil reported during the RI). The soil boring program also identified the presence of low permeability soils in the source area, interbedded with more permeable soils.

The former drainage channel area (Reach B Diversion) could not be sampled during the PDI as the channel had been filled in and a communications tower had been constructed in the area following completion of the 1990 RI. As a result, five soil borings were advanced adjacent to the communications tower. Soil samples were collected at three of the five boring locations and a groundwater sample was collected at one boring location. The detected concentrations of VOCs in soil samples ranged from 0.0012 to 0.0099 ppm. The total VOC concentration detected in the groundwater sample was 1,270 ppb. These results suggested that the total VOC concentrations in overburden groundwater were still elevated near the former drainage channel, and that the total VOC concentration in soil was low.

As part of the PDI, two overburden monitoring wells (GW-1S and GW-4S) and four bedrock monitoring wells (GW-2D, GW-3D, GP-4D, and GW-5D) were installed at the Site and groundwater samples were collected for VOC analysis to compare to previous results. Groundwater sample results collected from the six monitoring wells indicated that VOC concentrations in both the overburden and bedrock had decreased since the RI.

In addition, during the PDI it was noted that an asphalt cap was installed over most of the Tailings Dump Area. This asphalt cap satisfied the capping requirement presented in the 1990 ROD.

¹ Sara Lee Corporation previously owned certain assets of the COSCO Site (NYSDEC, 1999).

The 1990 ROD was amended by NYSDEC in August 1999 (1999 ROD amendment). The changes to the 1990 ROD were based on the results of the 1997-1998 PDI which concluded relatively low-level VOC concentrations remained in the soil and sediments at the Site and therefore the effectiveness of the recommended SVE would be limited. In addition, the soil samples collected adjacent to the communications tower constructed near the former drainage channel had VOC detections below NYSDEC Soil Clean-up Objectives (NYSDEC, 2006). As a result, NYSDEC selected the following for the 1999 ROD amendment:

- No further action for source area soils and sediments;
- Extraction of contaminated overburden and bedrock groundwater in the source area and treatment by chemical oxidation and polishing technologies;
- Completion/repair of the existing asphalt cap over the Tailings Dump Area; and,
- Long-term groundwater monitoring to evaluate the effectiveness of both the groundwater extraction and the Tailings Dump Area.

1.2.1 Soil Vapor Intrusion Evaluations

Independent of the 1999 ROD amendment, two soil vapor intrusion (SVI) evaluations were conducted for the Site – one on-Site and the other off-Site. The on-Site SVI evaluation was conducted by Environmental Resources Management, Inc. in January 2006. Six overburden groundwater samples and six soil vapor samples were collected and analyzed for VOCs in the area north of the COSCO facility building and along the Conrail railroad line and right-of-way. Two of the six groundwater samples had detections of Site-related COCs at concentrations less than 100 ppb. Site-related COCs were also detected in soil vapor samples.

Based on the results of the 2006 on-Site SVI evaluation, an off-Site supplemental SVI evaluation was performed to evaluate the residential and commercial area east of the Site. The off-Site SVI evaluation was performed by AECOM from December 2008 through March 2009. The off-Site supplemental SVI evaluation included collection of sub-slab soil gas samples with co-located indoor air samples at residential and commercial properties east of the Site on Commerce Street. The results of the off-Site supplemental SVI evaluation identified concentrations of PCE and TCE in the sub-slab sample collected at 47 Commerce Street in excess of the New York State Department of Health (NYSDOH) soil vapor/indoor air guideline values listed in Matrix A and Matrix B (NYSDOH, 2017). The analytical results for the other properties included in the off-Site supplemental SVI evaluation (35 Commerce Street, 37 Commerce Street, 39 Commerce Street, 41 Commerce Street, 43 Commerce Street, and 45 Commerce Street) had elevated VOC reporting limits, resulting in non-detection of VOCs.

In February 2010, an additional round of SVI sampling was performed to compare to the initial off-Site supplemental SVI results. The results of the additional round of off-Site supplemental SVI sampling indicated that concentrations of PCE and TCE were still present in the sub-slab soil vapor at 47 Commerce Street and Site-related COCs were not detected at the six other properties. Based on the detected concentrations of PCE and TCE in sub-slab soil vapor at 47 Commerce Street, an SSDS was installed to mitigate the sub-slab vapor intrusion to the property. The SSDS at 47 Commerce Street continues to operate with maintenance and inspection activities being performed by HDR Engineering, Inc. of Mahwah, New Jersey.

As recommended by NYSDEC and NYSDOH, a final round of off-Site SVI sampling was performed at 41 Commerce Street, 43 Commerce Street, and 45 Commerce Street in March 2012. The results of the final round of off-Site SVI sampling indicated that no further action or mitigation was warranted. SVI sampling was also proposed for 39 Commerce Street, however, the property owner did not grant access.

A summary of the remedial Site history is provided in **Appendix A**.

1.3 Regulatory Requirements and Current Site Status

As discussed above, the components of the 1990 ROD were amended in August 1999 at the Site. The components of the 1999 ROD amendment include the following:

- No further action for source area soils and sediments;
- Extraction of contaminated overburden and bedrock groundwater in the source area and treatment by chemical oxidation and polishing technologies;
- Completion/repair of the existing asphalt cap over the Tailings Dump Area; and,
- Long-term groundwater monitoring to evaluate the effectiveness of both the groundwater extraction and the Tailings Dump Area.

As discussed above, remedial actions were initiated at the Site beginning in the late 1990's when the Tailings Dump Area was capped with asphalt. In November 2003, the GWE&T system was placed into operation and consists of two overburden recovery wells (RW-1S and RW-8S) and one bedrock recovery well (RW-3D). Recovery wells RW-1S and RW-3D are repurposed monitoring wells, formerly GW-1S and GW-3D. The wells were installed as part of the PDI in December 1997 by American Auger and Ditching, of Constantia, New York (Aztech, 2020).

The GWE&T system initially included treatment of extracted groundwater via UV light and peroxide oxidation. Operational issues resulted in a system shutdown within the first two years of operation. The GWE&T system design was re-evaluated to improve treatment efficiency, reduce costs, and to continue to meet the goals of the 1999 ROD amendment. The GWE&T system redesign was completed in December 2011, and the UV light and peroxide oxidation treatment were replaced by an air stripper.

Since 2011, extracted groundwater has been conveyed via underground piping from the recovery wells to the treatment system shed (see **Figure 1-2**) and is contained in a 1,500-gallon polyethylene batch tank prior to treatment. The extracted groundwater passes through two bag filter units, connected in parallel, prior to treatment in a ShallowTray® model 2341-P air stripper. The air stripper comprises four stripper trays and a sump tank. The air stripper is also equipped with sight tub and alarm switches and gauges connected to a programmable logic controller (PLC) to monitor the operation of the treatment system. Treated groundwater is discharged to Reach B Diversion via underground piping. Reach B Diversion ultimately discharges into Pascack Brook.

Currently only bedrock recovery well RW-3D is actively recovering groundwater. Overburden recovery wells RW-1S and RW-8S have been offline since the fall of 2015.

2. SITE INSTITUTIONAL AND ENGINEERING CONTROLS

The Site is managed under the New York State Inactive Hazardous Waste Disposal Site Remedial Program administered by NYSDEC and is listed by the NYSDEC as a Class 4 Inactive Hazardous Waste Disposal Site (ID No. 3-44-035). Class 4 sites are hazardous waste sites that have been properly closed but, require continued O&M of remedial systems and/or continued site monitoring.

2.1 Institutional Controls

The current Institutional Controls (ICs) governing the Site include the August 1999 ROD amendment and the 2022 SMP. Adherence to ICs is discussed within the SMP prepared by Ramboll (Ramboll, 2022). Adherence to ICs under the SMP include:

- Compliance with the SMP by the owner and remedial party (the remedial party for the purpose of the SMP is the NYSDEC);
- Engineering Controls (ECs), discussed in greater detail below, must be operated or maintained as specified in the SMP;
- ECs at the Site must be inspected at a frequency and manner defined in the SMP;
- Environmental monitoring for public health must be performed as defined in the SMP; and,
- Data and information pertinent to management of the Site must be reported at the frequency and in a manner defined in the SMP.

ICs, and Site restrictions, may not be discontinued without amendment to the SMP and approval from the NYSDEC. The following Site restrictions apply:

- The Site may only be used for commercial/industrial use provided that long-term ECs and ICs included in the SMP are employed;
- The Site may not be used for a higher level of use, such as unrestricted or restricted-residential use, without additional remediation and amendment of the SMP, as approved by the NYSDEC;
- Future activities conducted at the Site that disturb in-situ source soil and/or fill material that could contain potential Site-related COCs must be conducted in accordance with the SMP;
- The use of groundwater underlying the property is prohibited;
- Vegetable gardens and farming on the property are prohibited; and,
- A written statement certifying: 1). The ECs and/or ICs employed at the Site are unchanged from the previous certification or that any changes to the ECs and/or ICs were approved by the NYSDEC; and 2). ECs and/or ICs have not been impaired to protect public health and the environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access the Site at any time in order to evaluate the continued maintenance of any and all ECs and/or ICs. The certification shall be submitted annually (or at an alternate time acceptable to NYSDEC) and, will be made by an expert that the NYSDEC finds acceptable.

2.2 Engineering Controls

The ECs at the Site consist of the asphalt cap installed over the Tailings Dump Area, a perimeter security fence, the SSDS installed off-Site at 47 Commerce Street, the GWE&T system, and the overburden and bedrock monitoring well network.

Asphalt Cap

The asphalt cap installed over the Tailings Dump Area during the PDI prevents exposure to impacted soil/solid wastes in the Tailings Dump Area.

Perimeter Security Fence

A perimeter security fence was installed around the Tailings Dump Area and the monitoring well network at the Site to limit access.

Sub-Slab Depressurization System

An SSDS was installed by NYSDEC at a nearby off-Site residence (47 Commerce Street) to minimize exposure to elevated concentrations of VOCs in sub-slab/indoor air at the property and to mitigate future VOC exposure to the public. The SSDS consists of one centrally located system suction point (SSP) that induces air flow through a RadonAway™ model RP-145 fan. The RP-145 fan is mounted on the southwestern exterior of the property. Continued operation of the SSDS is a component of the overall remedial program for the Site.

Groundwater Extraction and Treatment System

As discussed above, the GWE&T system at the Site consists of two overburden recovery wells, one bedrock recovery well, and a four-tray air stripper. Currently only bedrock recovery well RW-3D is actively recovering groundwater. Treated groundwater is discharged to Reach B Diversion via underground piping. Reach B Diversion ultimately discharges into Pascack Brook.

Overburden and Bedrock Monitoring Well Network

The Site includes eight groundwater monitoring and/or recovery wells. Five wells (GW-4S, MW-3, MW-18, RW-1S, and RW-8S) are completed within the overburden and three wells (DW-1, GP-4D, and RW-3D) are completed within the bedrock.

3. SITE MONITORING AND SAMPLING

3.1 Annual Site Inspection

The annual Site inspection for this reporting period was completed on March 22, 2022. The Site inspection included an evaluation of the current condition of the asphalt cap and security fencing at the Tailings Dump Area and other Site conditions, including the presence of vegetative growth and inspection of the perimeter fence for breaks in the linkage or loose poles. The inspection also included an evaluation of the current recovery well and monitoring well network. In addition, presence of debris, trespassing, and indications of vandalism were also observed during the annual Site inspection. A summary of the Site inspection is provided in **Appendix B**.

As shown in **Appendix B**, the asphalt cap over the Tailings Dump Area was observed to be in good condition with no evidence of excessive wear or cracks in the asphalt. The perimeter security fence surrounding the Tailings Dump Area was also in good condition. Vegetative growth was observed along the perimeter security fencing surrounding the Tailings Dump Area. Debris

was also noted along the western edge of Tailings Dump Area. Several large holes in the linkage of the perimeter security fence near the current recovery well and monitoring well network were observed. Debris and evidence of trespassers were observed near overburden recovery well RW-1S, bedrock recovery well RW-3D, overburden monitoring wells MW-18 and GW-4S, and bedrock monitoring well GP-4D. The monitoring wells and recovery well network were observed to be in good to fair condition. The recommended maintenance and corrective actions from the annual Site inspection are presented in Section 6.

3.2 Groundwater Monitoring Program

Groundwater level measurements and groundwater quality samples were collected from the Site monitoring and recovery wells (i.e., MW-3, MW-18, GW-4S, GP-4D, DW-1, RW-1S, RW-3D, and RW-8S) on a semi-annual basis during the reporting period. The first semi-annual sampling event was completed on July 26 and 27, 2021. The second semi-annual sampling event was completed on March 21 and 22, 2022. A summary of the overburden and bedrock monitoring well construction specifications is presented on **Table 3-1**.

3.2.1 Water Level Monitoring

Groundwater level measurements were collected from each of the eight monitoring and recovery wells prior to collection of groundwater quality samples during each semi-annual sampling event. The groundwater level measurements and corresponding groundwater level elevations are presented on **Table 3-2**.

Hydraulic conditions at the Site are illustrated through groundwater contour maps for the overburden and bedrock hydrostratigraphic units. The groundwater contour maps were prepared based on the groundwater level measurements collected during the semi-annual sampling events. The July 2021 and March 2022 overburden groundwater contour maps are shown on **Figure 3-1** and **Figure 3-3**, respectively. The July 2021 and March 2022 bedrock groundwater contour maps are shown on **Figure 3-2** and **Figure 3-4**, respectively.

As shown on **Figure 3-1** and **Figure 3-3**, groundwater flow in the overburden is generally to the north or northeast towards Pascack Brook and does not appear to be under the influence of active bedrock recovery well RW-3D at this time. As shown on **Figure 3-2** and **Figure 3-4**, groundwater flow in the bedrock is generally to the north, with localized flow towards active recovery well RW-3D.

3.2.2 Groundwater Quality Sampling

Semi-annual groundwater samples were collected from the five groundwater monitoring wells and three recovery wells at the Site. In July 2021 and March 2022, monitoring wells GW-4S, MW-3, MW-18, DW-1, and GP-4D and inactive recovery wells RW-1S and RW-8S were purged and sampled utilizing dedicated, disposable bailers. A grab groundwater sample was collected from active recovery well RW-3D at the influent sample tap located in the Site GWE&T shed during the July 2021 event, however a grab sample was not able to be collected during the March 2022 event as the recovery well was not operational.

Field quality assurance/quality control (QA/QC) samples consisted of one blind field duplicate, one matrix spike (MS), one matrix spike duplicate (MSD), and trip blanks for each day of sample collection. Groundwater samples were analyzed for VOCs by USEPA Method 624.1 by Eurofins

TestAmerica of Buffalo, New York and Edison, New Jersey for the July 2021 event and by Contest, a Pace Analytical Laboratory, in East Longmeadow, Massachusetts for the March 2022 event. The groundwater sampling field forms are provided in **Appendix C**.

Detected constituents in groundwater from the July 2021 and March 2022 semi-annual sampling events are presented on **Table 3-3** and **Table 3-4**, respectively. Detected constituents in overburden and bedrock groundwater for the Site-related COCs are also illustrated on **Figure 3-5** and **Figure 3-6**, respectively.²

As presented on **Table 3-3** and illustrated on **Figure 3-5**, Site-related COCs in overburden recovery well RW-8S were detected above the New York State Class GA Standards in July 2021. Total 1,2-DCE was detected at a concentration of 7.7 ppb³, and TCE was detected at a concentration of 10 ppb, each above the Class GA Standards of 5 ppb. Site-related COCs were also detected at overburden monitoring well MW-18 and overburden recovery well RW-1S above New York State Class GA Standards. Total 1,2-DCE and VC were detected, both at estimated concentrations of 17 ppb in MW-18. TCE was detected at a concentration of 6.4 ppb in RW-1S. As presented on **Table 3-3** and illustrated on **Figure 3-6**, PCE was detected in RW-3D at a concentration of 68 ppb, TCE was detected at a concentration of 69 ppb, and total 1,2-DCE was detected at a concentration of 32 ppb, each above the Class GA Standards for these constituents of 5 ppb. The remaining Site-related COCs detected in overburden monitoring and inactive recovery wells were below their Class GA Standards.

As presented on **Table 3-4** and **Figure 3-5**, in March 2022, TCE was detected in RW-8S at a concentration of 8.31 ppb, above the Class GA Standard of 5 ppb. The remaining Site-related COCs detected in overburden and bedrock wells were below their Class GA Standards. Bedrock recovery well RW-3D was unable to be sampled in March 2022.

A summary of the laboratory analytical results is provided in **Appendix D**. Data validation was performed for the July 2021 and March 2022 semi-annual sampling events by Vali-Data of WNY, LLC, located in Fulton, New York. The data usability summary reports (DUSRs) are provided in **Appendix E**.

The detected concentrations of Site-related COCs during this reporting period are consistent with historical results. Historical concentration trend plots of Site-related COCs are provided in **Appendix F**.

3.3 Groundwater Extraction and Treatment System Operations

Operation, maintenance, and repair activities are routinely performed by LaBella to maintain the efficiency of the GWE&T system. The system operated for approximately 204 days during the reporting period, with an average flow rate of approximately 21.5 gpm. Approximately 6,308,094 gallons of groundwater were treated and discharged by the GWE&T system during the reporting period. Maintenance and repair activities performed during the reporting period were documented in the quarterly system monitoring reports prepared by LaBella. The quarterly system monitoring reports are provided in **Appendix G**. A summary of the routine and non-routine activities performed by LaBella during the reporting period are presented below.

² Bromodichloromethane, chloroform, and methylene chloride are not Site-related COCs and are therefore not presented on the figures.

³ For the purposes of this report, the individual Class GA Standard of 5 ppb is used for cis-1,2-dichloroethene and trans-1,2-dichloroethene.

Routine Activities

- Replacement of bag filter.
- Inspection and cleaning of the air stripper.
- Inspection/replacement of system components (i.e., gauges, valves, blower components).
- Replacement of external lights.

Non-Routine Activities

- During Site visits in September, November, and December 2021, and March 2022, the system was reset as a result of shutdowns.
- During the March 2022 Site visit, the blower was assessed for excess noise.

3.3.1 Groundwater Extraction and Treatment System Performance

Compliance samples were collected each month the GWE&T system was in operation to monitor the effectiveness of the system. Compliance samples serve to document that treatment system discharge limits are maintained. Influent and effluent samples were collected and analyzed for VOCs by USEPA Method 624.1, Total Dissolved Solids (TDS) by Standard Method (SM) 2540C, and pH by USEPA Method 9040C by Eurofins TestAmerica of Buffalo, New York for the April 2021 through November 2021 samples, and Pace Analytical Laboratory, of Melville, New York, for the December 2021 and January 2022 samples. Influent and effluent samples were collected and analyzed for VOCs by USEPA Method 624.1, TDS by SM 2540C, and pH by SM 4500HB by Con-test, a Pace Analytical Laboratory, of East Longmeadow, Massachusetts, for the February and March 2022 samples. Site-related COCs were detected below the effluent limitations and monitoring requirements set forth in the September 9, 2020 NYSDEC State Pollutant Discharge Elimination System (SPDES) permit equivalent for the Site (NYSDEC, 2020) during each monthly sampling event.⁴ Groundwater treated by the GWE&T system discharges to Reach B Diversion, ultimately discharging into Pascack Brook. Monthly influent and effluent VOC, TDS, and pH data are presented in **Appendix D**.

As presented in the 2019-2020 PRR (Aztech, 2020), groundwater samples were collected from each Site monitoring and recovery well (with the exception of monitoring well MW-3) and the GWE&T system effluent for per- and polyfluorinated alkyl substances (PFAS) and 1,4-dioxane analyses. Perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) were detected in the GWE&T system effluent at concentrations of 11 parts per trillion (ppt) and 18 ppt, respectively. There are currently no state groundwater or surface water standards for PFAS (including PFOS and PFOA). A remedial system optimization (RSO) enhanced in-situ bioremediation (EISB) pilot study will be implemented at the Site in 2022. As part of the EISB pilot study, the GWE&T system will be shut down during the pilot study.

4. SITE COST EVALUATION

The Site cost evaluation summarizes the costs for the period of April 1, 2021 through April 1 2022, the approximate reporting period for this PRR.⁵ The costs are itemized by NYSDEC subcontractor (Ramboll and LaBella). The approximate costs are presented on **Table 4-1**.

⁴ The influent samples for RW-3D were incorrectly reported as the effluent samples and the effluent samples reported as influent samples for the December 2021 and February 2022 sampling events.

⁵ The Site cost evaluation does not include the RSO EISB pilot study.

Overall, the total estimated cost for Ramboll and LaBella Site activities was \$81,584. Ramboll Site activities included subcontractor coordination, two semi-annual groundwater sampling events, in July 2021 and March 2022, and reporting. LaBella Site activities included the O&M of the GWE&T system, monthly sampling, and reporting.

5. CERTIFICATION OF ENGINEERING AND INSTITUTIONAL CONTROLS

The Institutional and Engineering Controls Certification Form is presented in **Attachment 1**.

6. CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

During this reporting period, the Tailings Dump Area was observed to be in good condition with no evidence of excessive wear or cracks in the asphalt cover. The perimeter security fence surrounding the Tailings Dump Area was also generally in good condition, however, several large holes in the linkage of the perimeter security fence near the current monitoring and recovery well network were observed, in addition to a damaged section of the perimeter security fence north of West Central Avenue, adjacent to the Tailings Dump Area. In addition, debris was observed along the Tailings Dump Area fence and the near monitoring well network. Evidence of trespassing during this reporting period included a camping tent and a large pile of trash/debris near RW-3D (see **Appendix B**).

The current hydraulic conditions and semi-annual groundwater sampling results show that the GWE&T system is creating a localized bedrock groundwater capture zone near recovery well RW-3D. Overburden groundwater does not appear to be under the influence of the GWE&T system at this time. The detected concentrations of Site-related COCs during this reporting period are consistent with historical results.

The results of the GWE&T system influent and effluent sampling show that the system was effective in removing Site-related COCs from recovered groundwater during the reporting period.

The RSO EISB pilot study will be implemented in 2022 and the results of the pilot study will be reported under separate cover.

6.2 Recommendations

Based on a review of the annual Site inspection, the monitoring and hydraulic data collected in 2021 and 2022, and the requirements of the 1999 ROD amendment, the following recommendations are presented:

- Tailings Dump Area – It is recommended that continued monitoring of the vegetative growth along the perimeter security fence and debris along the western portion of the Tailings Dump Area be performed.
- Monitoring and Recovery Well Network – It is recommended that the monitoring and recovery wells be equipped with new, keyed-alike locks. This will be completed as part of the RSO EISB pilot study in May 2022.

- Presence of Debris – It is recommended that the debris near RW-1S, RW-3D, MW-18, GW-4S, and GP-4D be disposed of and the area be monitored during future Site activities to identify the presence of new trash/debris.

7. REFERENCES

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Aztech Environmental Technologies, 2020. *Periodic Review Report COSCO*, Spring Valley, Rockland County, New York. Covering the Time Period from April 4, 2019 through April 4, 2020. NYSDEC Site No.:3-44-035. Prepared for the New York State Department of Environmental Conservation. May 1, 2020.

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Ramboll, 2020. *Schedule 1 Scope of Work Assignment Package for the COSCO Site*, Spring Valley, New York. Work Assignment #D009810-03. NYSDEC Site No.:3-44-035. June 1, 2020.

Ramboll, 2022. *Draft Site Management Plan NYSDEC COSCO Site, 2022*. Spring Valley, Rockland County, New York. NYSDEC Site No.:3-44-035. Prepared for the New York State Department of Environmental Conservation. April 5, 2022.

TABLES

Table 3-1
Overburden and Bedrock Monitoring Well Summary
NYSDEC COSCO Site
Spring Valley, New York

Well	Geologic Unit	Measuring Point Elevation (ft amsl)	Well Diameter (inches)	Total Depth of Well (ft bmp)	Screen Interval (ft bg)
MW-3	Overburden	98.64	2.0	16.75	?-16.8
MW-18	Overburden	99.32	2.0	23.00	11.0-23.0
GW-4S	Overburden	101.49	2.0	25.00	10.0-25.0
RW-1S	Overburden	101.00	4.0	28.00	10.0-25.0
RW-8S	Overburden	97.74	4.0	25.00	10.0-25.0
DW-1	Bedrock	100.12	4.0	66.00	51.0-61.0 ^a
GP-4D	Bedrock	101.01	2.0	99.00	41.0-99.0
RW-3D	Bedrock	100.54	4.0	102.50	41.0-102.5

Notes:

1. "NYSDEC" designates New York State Department of Environmental Conservation.
2. "ft amsl" designates elevations are in feet above mean sea level.
3. "ft bmp" designates feet below measuring point.
4. "ft bg" designates feet below grade.
5. Table modified from April 4, 2019 through April 4, 2020 Periodic Review Report prepared by Aztech Environmental Technologies (Aztech, 2020).
6. "^a" designates five-foot sump present from 61.0-66.0 feet below grade.
7. RW-1S and RW-8S are inactive overburden recovery wells.
RW-3D is an active bedrock recovery well.

Table 3-2
Summary of Water Level Measurements and Groundwater Elevations
NYSDEC COSCO Site
Spring Valley, New York

Well	Geologic Unit	Measuring Point Elevation (ft amsl)	July 2021		March 2022	
			Depth to Water (ft bmp)	Water Level Elevation (ft amsl)	Depth to Water (ft bmp)	Water Level Elevation (ft amsl)
MW-3	Overburden	98.64	12.13	86.51	11.40	87.24
MW-18	Overburden	99.32	11.60	87.72	12.71	86.61
GW-4S	Overburden	101.49	12.74	88.75	13.57	87.92
RW-1S	Overburden	101.00	13.41	87.59	14.56	86.44
RW-8S	Overburden	97.74	9.72	88.02	11.44	86.30
DW-1	Bedrock	100.12	29.28	70.84	28.41	71.71
GP-4D	Bedrock	101.01	13.37	87.64	13.62	87.39
RW-3D	Bedrock	100.54	52.44	48.10	50.52	50.02

Notes:

1. "NYSDEC" designates New York State Department of Environmental Conservation.
2. "ft amsl" designates elevations are in feet above mean sea level.
3. "ft bmp" designates feet below measuring point.

Table 3-3
Summary of Detected Constituents in Groundwater - July 2021
NYSDEC COSCO Site
Spring Valley, New York

Compounds	NYSDEC TOGs (1.1.1), Class GA Standards and Guidance Values ¹	DW-1 DW-1-072721 7/27/2021	GW-4S GW-4S-072621 7/26/2021	MW-18 MW-18-072621 7/26/2021	RW-1S RW-1S-072721 7/27/2021	RW-3D RW-3D-072721 7/27/2021	RW-8S RW-8S-072721 7/27/2021
1,2-Dichloroethene, Total	5 ²	2.0 U	0.75 JH	17 JH	1.5 J	32	7.7
Chloroform	7	0.37 J	1.0 UJ	1.0 UJ	1.0 U	0.53 J	1.0 U
Tetrachloroethene	5	2.2	1.0 U	0.74 J	0.75 J	68	0.89 J
Trans-1,2-dichloroethene	5	1.0 U	1.0 U	0.33 JH	1.0 U	1.0 U	0.24 J
Trichloroethene	5	1.9	4.5	1.8	6.4	69	10
Vinyl chloride	2	1.0 U	1.0 UJ	17 JH	1.0 U	1.0 U	0.53 J

Notes:

1. Samples analyzed for volatile organic compounds using United States Environmental Protection Agency Method 624.1 by Eurofins TestAmerica in Buffalo, New York and Edison, New Jersey.
2. Results are reported in micrograms per liter (µg/L).
3. "NYSDEC" designates New York State Department of Environmental Conservation.
4. "TOGS" designates Technical and Operational Guidance Series.
5. ¹New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, June 1998, with all current addendums.
6. ²To be conservative, the individual Class GA Standard is used for cis-1,2-dichloroethene and trans-1,2-dichloroethene.
7. "U" indicates that the compound was not detected at or above the practical quantitation limit shown.
8. "J" indicates that the compound was detected at an estimated concentration.
9. "UJ" indicates the compound was not detected at the estimated practical quantitation limit shown.
10. "JH" indicates that the compound was detected at an estimated concentration, biased high.
11. Values that are bold indicate exceedance of criteria.

Table 3-4
Summary of Detected Constituents in Groundwater - March 2022
NYSDEC COSCO Site
Spring Valley, New York

Compounds	NYSDEC TOGs (1.1.1), Class GA Standards and Guidance Values ¹	DW-1 DW-1-032122 3/21/2022	GP-4D GP-4D-032122 3/21/2022	DUP-01 DUP-01-032122 3/21/2022	GW-4S GW-4S-032122 3/21/2022	Trip Blank Trip Blank-01-032122 3/21/2022	MW-18 MW-18-032222 3/22/2022	RW-1S RW-1S-032222 3/22/2022	RW-8S RW-8S-032222 3/22/2022	Trip Blank Trip Blank-02-032222 3/22/2022
Bromodichloromethane	50	0.180 U	0.190 J	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U	0.180 U
Chloroform	7	0.390 J	1.07 J	1.04 J	0.168 U	0.168 U	0.168 U	0.168 U	0.168 U	0.168 U
Methylene chloride	5	0.235 U	0.235 U	0.235 U	0.235 U	0.640 J	0.235 U	0.235 U	0.235 U	0.690 J
Tetrachloroethene	5	2.29 J	0.187 UJ	0.187 UJ	0.187 UJ	0.187 UJ	0.187 U	0.960 J	0.800 J	0.187 U
Trichloroethene	5	1.58 J	0.189 U	0.189 U	2.32	0.189 U	0.620 J	3.67	8.31	0.189 U
Vinyl chloride	2	0.208 U	0.208 U	0.208 U	0.208 U	0.208 U	0.260 J	0.208 U	0.670 J	0.208 U

Notes:

1. Samples analyzed for volatile organic compounds using United States Environmental Protection Agency Method 624.1 by Con-test (Pace Analytical Laboratory) of East Longmeadow, Massachusetts.
2. Results are reported in micrograms per liter (µg/L).
3. "NYSDEC" designates New York State Department of Environmental Conservation.
4. "TOGS" designates Technical and Operational Guidance Series.
5. ¹New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, June 1998, with all current addendums.
6. "U" indicates that the compound was not detected at or above the practical quantitation limit shown.
7. "J" indicates that the compound was detected at an estimated concentration.
8. "UJ" indicates the compound was not detected at the estimated practical quantitation limit shown.
9. Blind duplicate samples are shown immediately after their parent sample.
10. Values that are bold indicate exceedance of criteria.

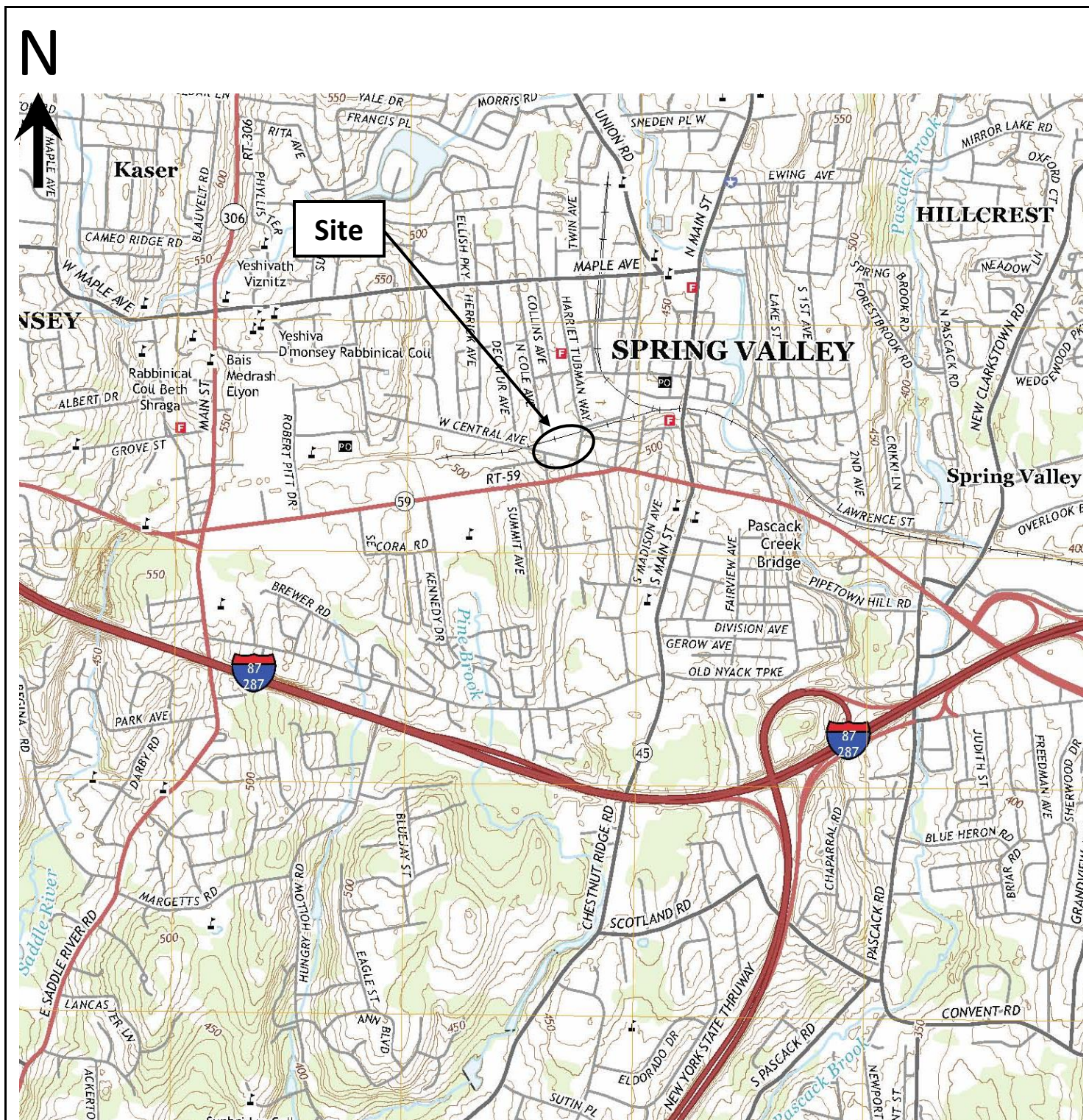
Table 4-1
Site Operational Costs GWE&T System and Site Monitoring, Sampling, and Reporting
NYSDEC COSCO Site
Spring Valley, New York

Summary of Approximate Costs		
Cost Items	Amount Expended (April 1, 2021 through April 1, 2022)	Percent of Total Cost
Groundwater Extraction and Treatment System Operation and Maintenance, Monthly Sampling, and Reporting ^a	\$33,928	42%
Semi-Annual Sampling, Monitoring, and Reporting ^b	\$47,656	58%

Notes:

1. "GWE&T" designates groundwater extraction and treatment.
2. "NYSDEC" designates New York State Department of Environmental Conservation.
3. "^a" costs include operation, maintenance, monitoring, monthly sampling, and reporting activities incurred by LaBella Associates. Reporting costs include the quarterly system monitoring reports.
4. "^b" costs include the first and second semi-annual sampling events, the semi-annual post groundwater monitoring report, the 2021/2022 periodic review report and updates to the site management plan. Additional costs associated with subcontractor coordination are also included. Costs do not include the remedial system optimization enhanced in-situ bioremediation pilot study implementation and reporting.

FIGURES



Scale 1:24,000

Adapted From: USGS Topographic Quadrangle Map, Park Ridge, New Jersey.

Modified From: Aztech Environmental Technologies, 2020.

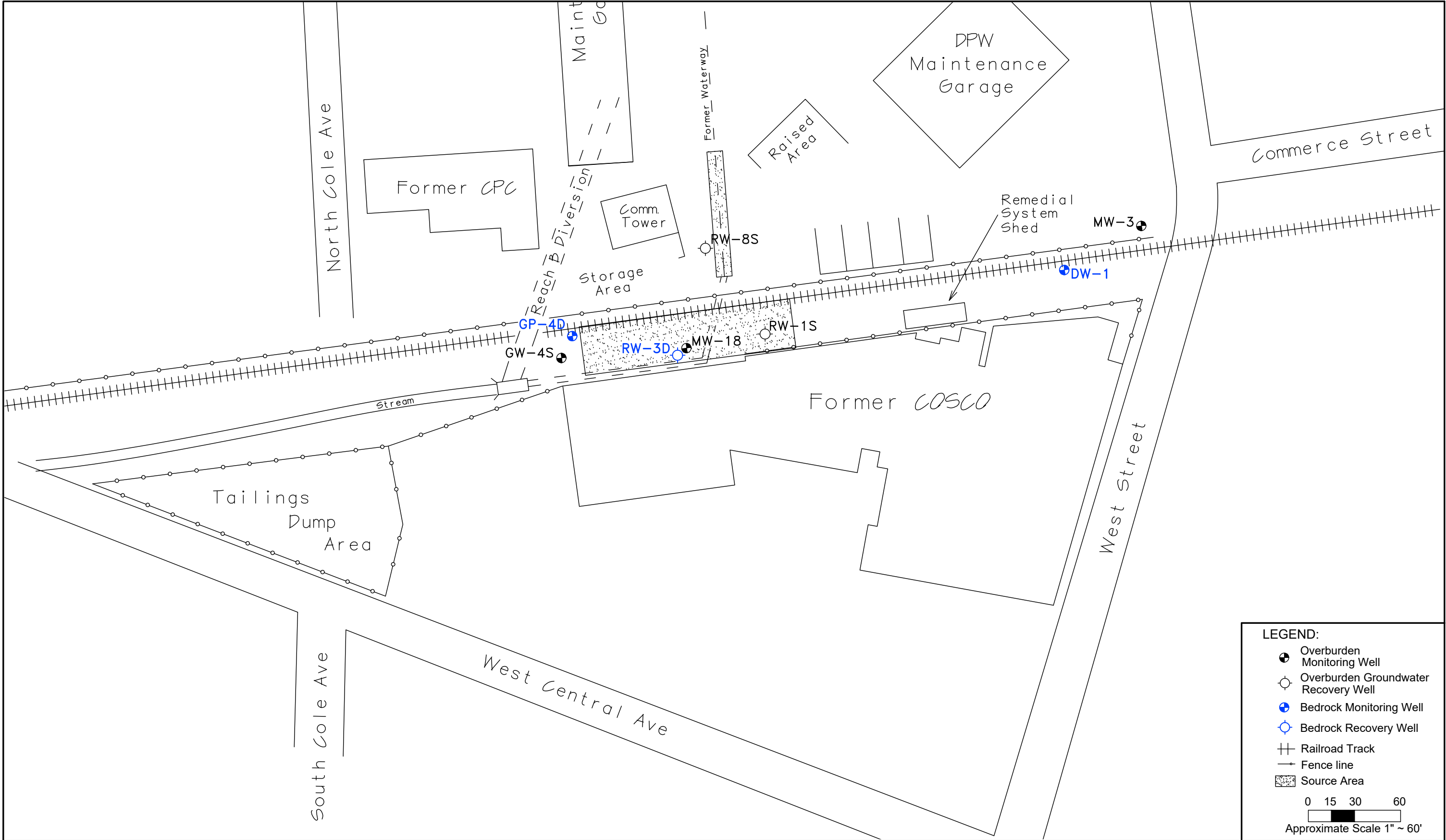
NYSDEC COSCO SITE
15 West Street
Spring Valley, New York

NYSDEC Site ID No. 3-44-035

Site Location
Map

FIGURE 1-1

RAMBOLL



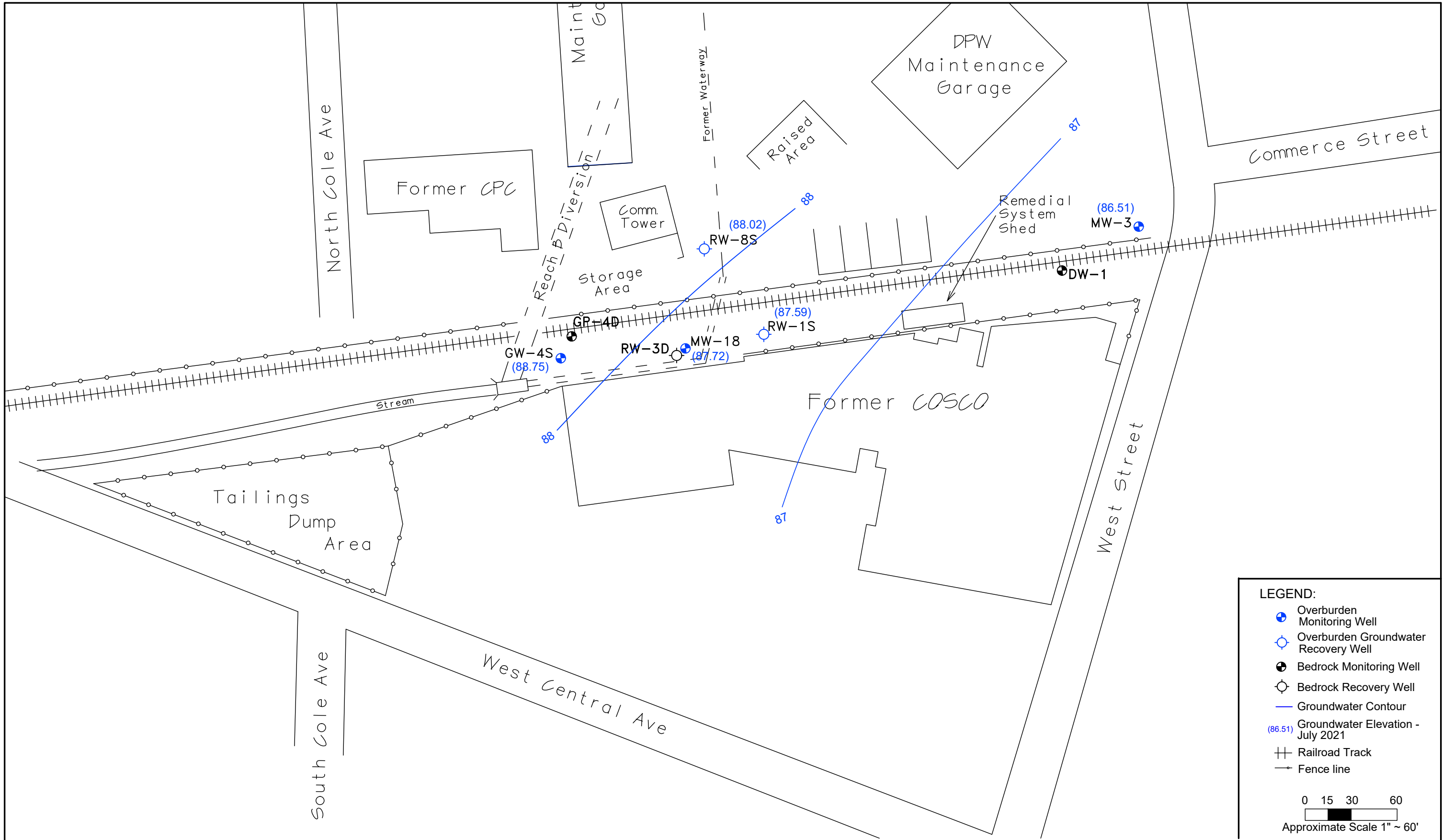
RAMBOLL

NYSDEC COSCO
SPRING VALLEY, NEW YORK
MONITORING AND EXTRACTION
WELL LOCATION MAP

FILE NO.
75217
DATE
APRIL 2022

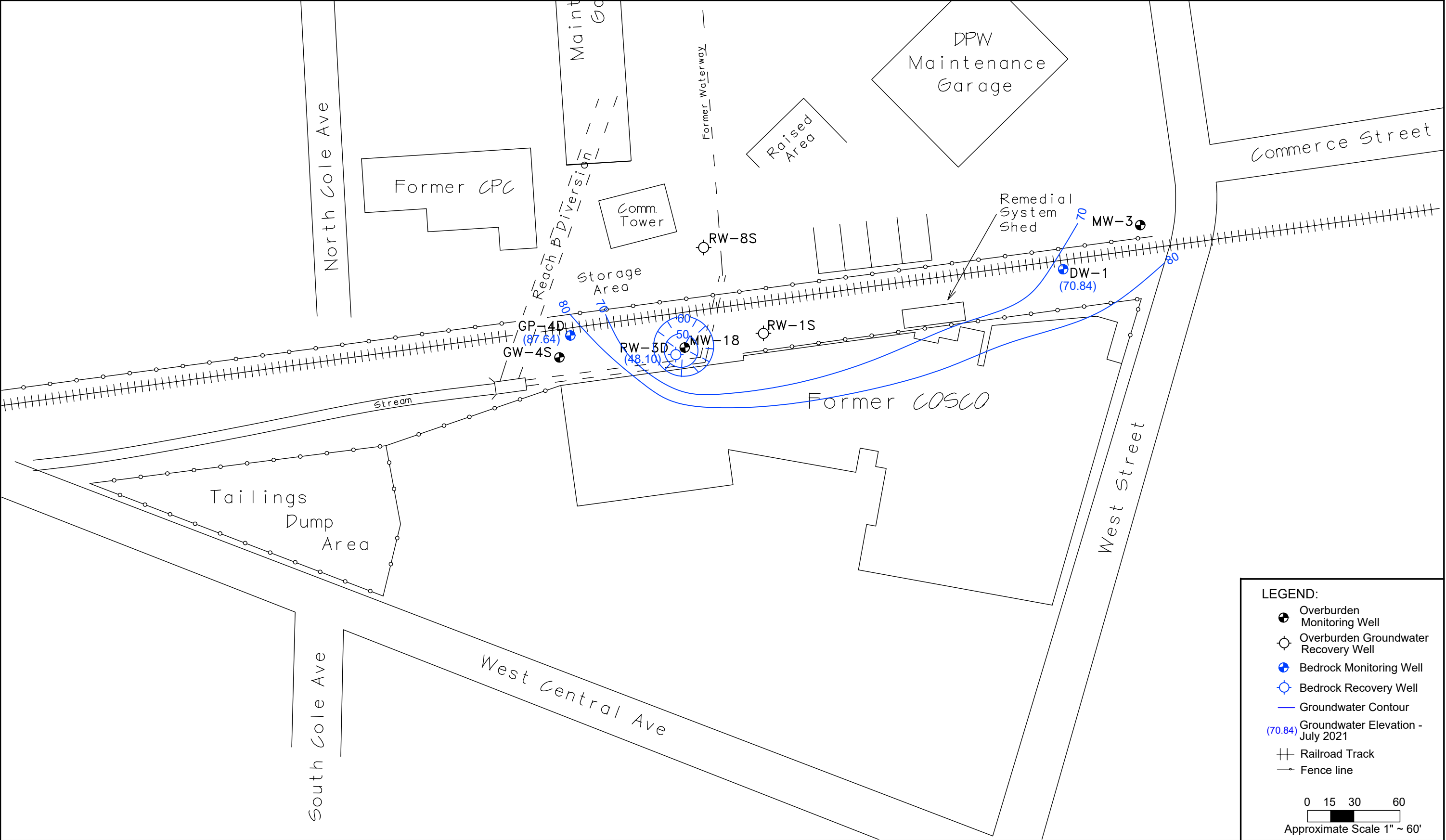
1-2

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	NYSDEC COSCO SPRING VALLEY, NEW YORK		FILE NO. 75217	3-1
	OVERBURDEN GROUNDWATER ELEVATION CONTOUR MAP - JULY 2021		DATE APRIL 2022	

\\ramsyfile01\Projects\Nys-Dec.10653\75217.Cosco-75217\Docs\Reports\Periodic Review Report\2022\Figures

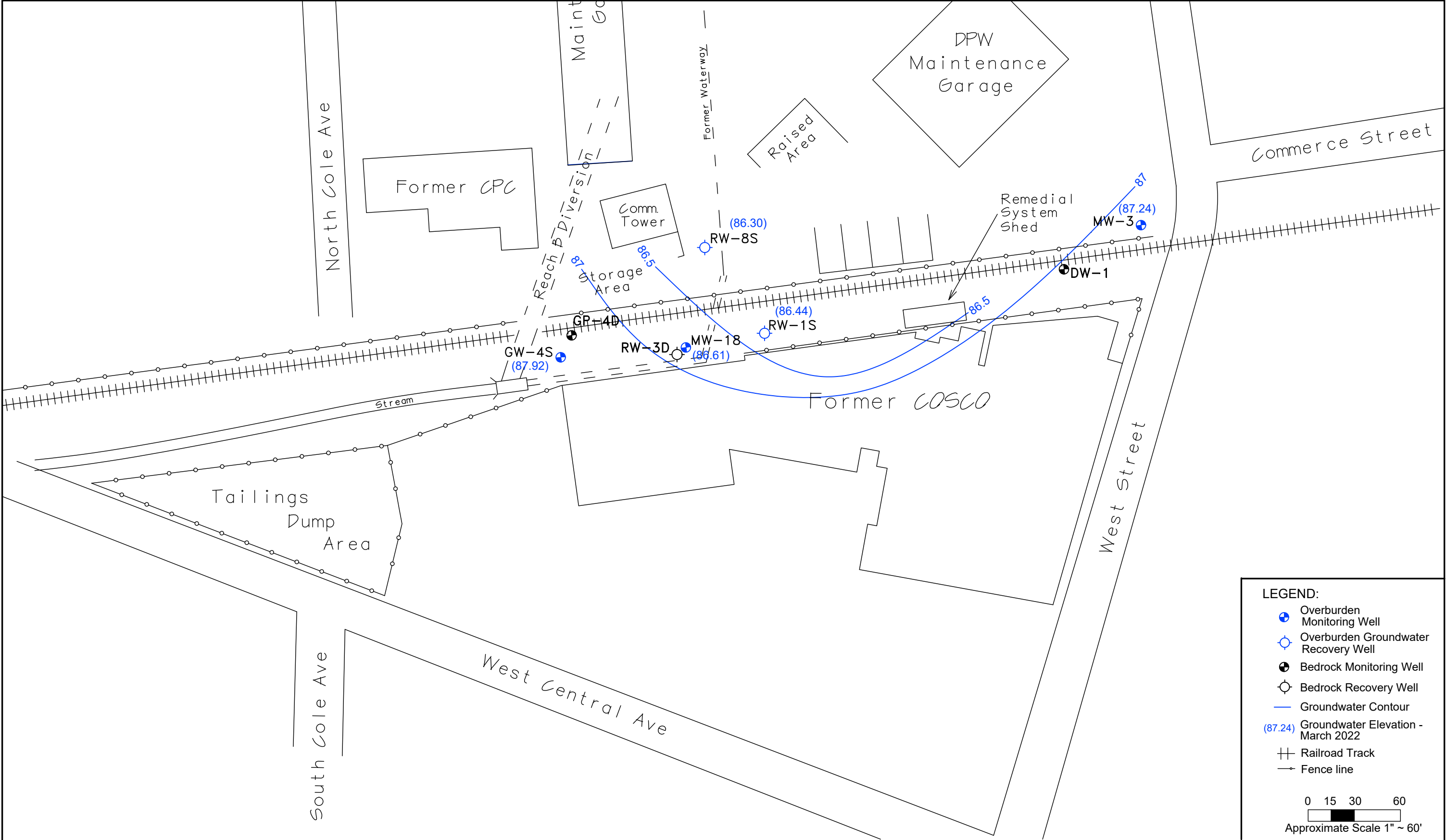


RAMBOLL

NYSDEC COSCO
SPRING VALLEY, NEW YORK
BEDROCK GROUNDWATER
ELEVATION CONTOUR MAP -
JULY 2021

FILE NO.
75217
DATE
APRIL 2022

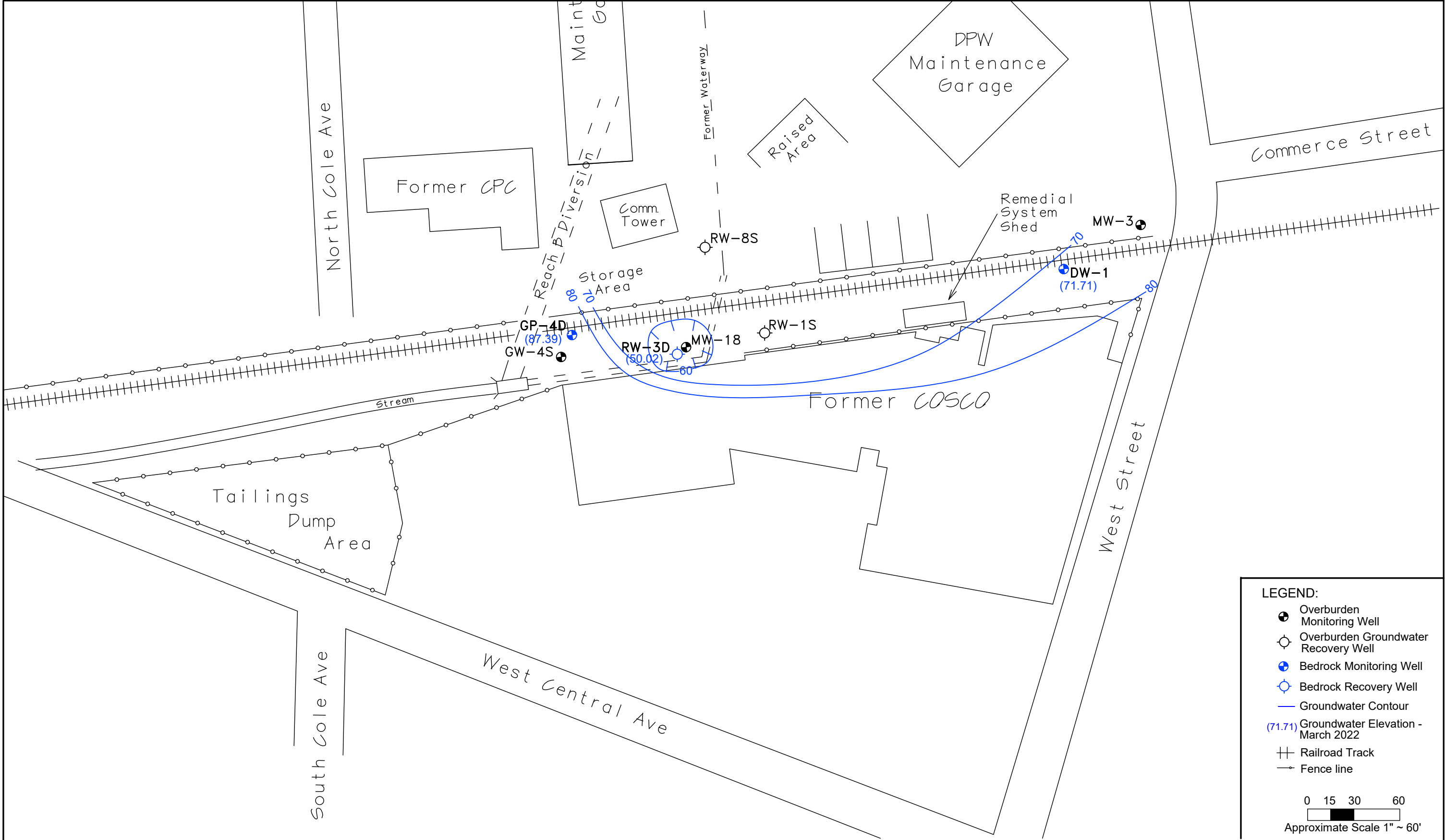
3-2



NYSDEC COSCO
SPRING VALLEY, NEW YORK
**OVERBURDEN GROUNDWATER
ELEVATION CONTOUR MAP –
MARCH 2022**

FILE NO.
75217
DATE
APRIL 2022

3-3

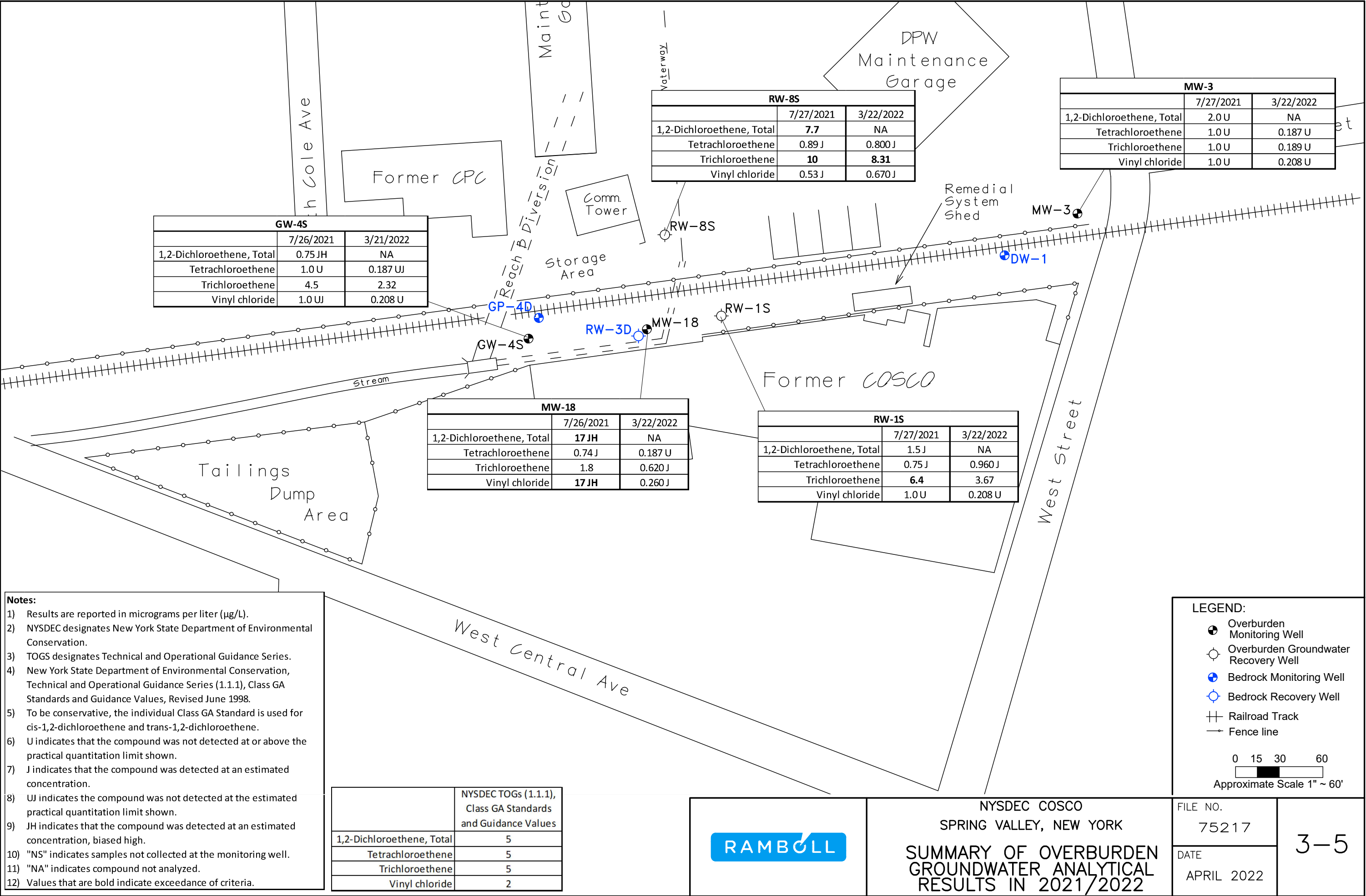


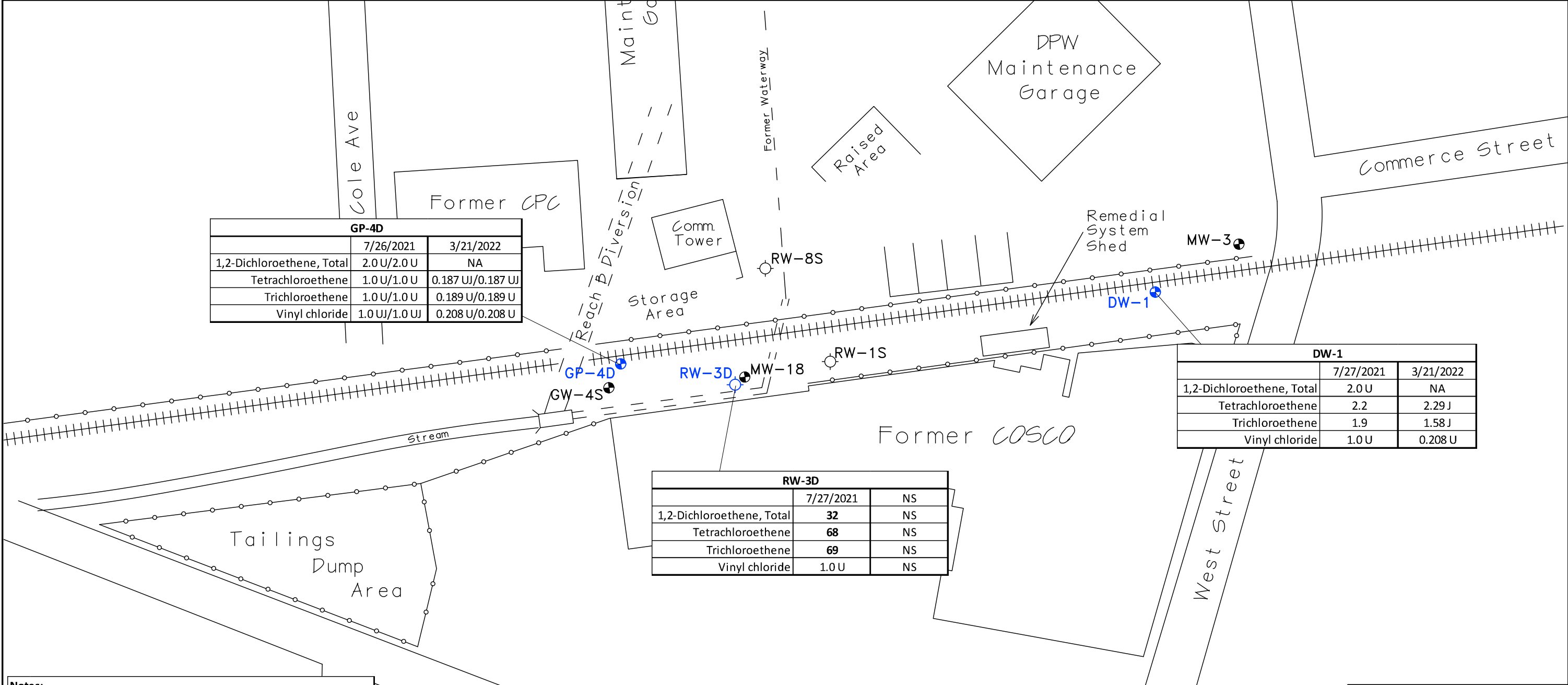
RAMBOLL

NYSDEC COSCO
SPRING VALLEY, NEW YORK
**BEDROCK GROUNDWATER
ELEVATION CONTOUR MAP –
MARCH 2022**

FILE NO.
75217
DATE
APRIL 2022

3-4





GP-4D		
	7/26/2021	3/21/2022
1,2-Dichloroethene, Total	2.0 U/2.0 U	NA
Tetrachloroethene	1.0 U/1.0 U	0.187 UJ/0.187 UJ
Trichloroethene	1.0 U/1.0 U	0.189 U/0.189 U
Vinyl chloride	1.0 UJ/1.0 UJ	0.208 U/0.208 U

DW-1		
	7/27/2021	3/21/2022
1,2-Dichloroethene, Total	2.0 U	NA
Tetrachloroethene	2.2	2.29 J
Trichloroethene	1.9	1.58 J
Vinyl chloride	1.0 U	0.208 U

RW-3D		
	7/27/2021	
1,2-Dichloroethene, Total	32	NS
Tetrachloroethene	68	NS
Trichloroethene	69	NS
Vinyl chloride	1.0 U	NS

- Notes:**
- Results are reported in micrograms per liter (µg/L).
 - NYSDEC designates New York State Department of Environmental Conservation.
 - TOGS designates Technical and Operational Guidance Series.
 - New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
 - To be conservative, the individual Class GA Standard is used for cis-1,2-dichloroethene and trans-1,2-dichloroethene.
 - U indicates that the compound was not detected at or above the practical quantitation limit shown.
 - J indicates that the compound was detected at an estimated concentration.
 - UJ indicates the compound was not detected at the estimated practical quantitation limit shown.
 - JH indicates that the compound was detected at an estimated concentration, biased high.
 - "NS" indicates samples not collected at the monitoring well.
 - "NA" indicates compound not analyzed.
 - Values that are bold indicate exceedance of criteria.

	NYSDEC TOGS (1.1.1), Class GA Standards and Guidance Values
1,2-Dichloroethene, Total	5
Tetrachloroethene	5
Trichloroethene	5
Vinyl chloride	2

LEGEND:

- Overburden Monitoring Well
- Overburden Groundwater Recovery Well
- Bedrock Monitoring Well
- Bedrock Recovery Well
- Railroad Track
- Fence line

0 15 30 60

Approximate Scale 1" ~ 60'

RAMBOLL

NYSDEC COSCO
SPRING VALLEY, NEW YORK
SUMMARY OF BEDROCK
GROUNDWATER ANALYTICAL
RESULTS IN 2021/2022

FILE NO.

75217

DATE

APRIL 2022

3-6

APPENDICES

APPENDIX A

SUMMARY OF SITE HISTORY

Appendix A Summary of Site History

New York State Department of Environmental Conservation (NYSDEC) Consolidated Stamp Company (COSCO) Site (ID No. 3-44-035)

<u>Date</u>	<u>Description</u>
1978	The Rockland County Department of Health (RCDOH) identified tetrachloroethene (PCE), trichloroethene (TCE), dichloroethene (DCE), and 1,1,1-trichloroethane (TCA) in the well field operated by the Spring Valley Water Company. The COSCO Site and Continental Plastic Company (CPC) facility were identified as potential sources to the former Spring Valley Well Field Site (ID No. 3-44-018).
1979	The results of a survey performed by Spring Valley Water Company found that CPC facility was pumping 20 to 30 gallons per minute (gpm) of TCE and PCE contaminated non-contact cooling water into Reach B Diversion. In addition, COSCO facility was using TCE as part of a vapor degreasing process and discharging the rinse water into Reach B Diversion.
1980	Reach B Diversion was diverted away from the former Spring Valley Well Field Site into the West Branch of Pascack Brook.
1987-1990	GHR Engineering Associates, Inc. performed a Remedial Investigation (RI)/Feasibility Study (FS). The RI/FS was performed to evaluate potential source areas for Site-related constituents of concern (COCs) (i.e., PCE, TCE, DCE and vinyl chloride [VC]).
1990	Record of Decision (ROD) issued for the Site in March 1990. The ROD detailed selected remedies to address contamination at the COSCO Site and CPC facility. The selected remedies included: <ul style="list-style-type: none"> • Source area groundwater extraction and treatment by ultraviolet (UV) chemical oxidation and polishing; • Source area soil and sediment soil vapor extraction (SVE); and, • Capping of the Tailings Dump Area to prevent erosion and disturbance.
1990	The former Spring Valley Well Field Site (ID No. 3-44-018) was delisted in December 1990, and the COSCO Site and CPC facility were listed under the New York State Inactive Hazardous Waste Disposal Site Remedial Program.
1990-1992	Two post-ROD groundwater studies were conducted to evaluate groundwater flow in the bedrock aquifer. The first study was performed in the summer of 1990 by COSCO and Sara Lee Corporation ¹ . The second study, a supplemental RI, was performed in 1992 by COSCO, Sara Lee, and the Spring Valley Water Company.
1997-1998	Pre-design investigation (PDI) performed by Camp Dresser and McKee on behalf of NYSDEC to fill identified gaps and evaluate the appropriateness of the remedial actions recommended in the 1990 ROD. During implementation of the PDI, the Tailings Dump Area asphalt cap was installed that satisfied the capping requirement in the 1990 ROD.
1999	1990 ROD amended in August 1999 based on the results of the PDI. The amended remedies in the 1999 ROD amendment included: <ul style="list-style-type: none"> • No further action for source area soils and sediments;

¹ Sara Lee Corporation previously owned certain assets of the COSCO Site (NYSDEC, 1999).

- Extraction of contaminated overburden and bedrock groundwater in the source area and treatment by chemical oxidation and polishing technologies;
- Completion/repair of the existing asphalt cap over the Tailings Dump Area; and,
- Long-term groundwater monitoring to evaluate the effectiveness of both the groundwater extraction and the Tailings Dump Area.

2003	The groundwater extraction and treatment (GWE&T) system placed into operation. The system consists of two overburden recovery wells (RW-1S and RW-8S, now inactive) and one active bedrock recovery well (RW-3D). The GWE&T system included treatment of extracted groundwater via UV light and peroxide oxidation.
2006	On-Site soil vapor intrusion (SVI) evaluation conducted by Environmental Resources Management, Inc. in January 2006.
2008-2009	Off-Site SVI evaluation performed to evaluate the residential and commercial area east of the Site. The off-Site SVI evaluation was performed by AECOM from December 2008 through March 2009.
2010	Additional off-Site SVI evaluation performed in February 2010 to compare the initial results of the samples collected. Based on detected concentrations of PCE and TCE in sub-slab soil vapor at 47 Commerce Street, a sub-slab depressurization system (SSDS) was installed to mitigate the sub-slab vapor intrusion to the property.
2011	GWE&T system design re-evaluated to maximize efficiency, minimize cost, and meet goals of 1999 ROD amendment. Redesign completed in December 2011, replacing UV light and peroxide oxidation treatment with an air stripper.
2012	A final round of off-Site SVI sampling conducted in March 2012. The final round of off-Site SVI sampling indicated no further action or mitigation was warranted.
2020	Ramboll initiates a Remedial System Optimization (RSO) to evaluate the effectiveness of the continued operation of the current GWE&T system contrasted with potential cost-effective remedial alternatives for the Site.

APPENDIX B
ANNUAL SITE INSPECTION AND PHOTOGRAPHIC LOG

NYSDEC COSCO SITE INSPECTION PHOTO LOG

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 1	Date: 3/22/2022		
Description:			
Monitoring well DW-1.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 2	Date: 3/22/2022		
Description:			
Monitoring well GP-4D.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 3	Date: 3/22/2022		
Description:			
Monitoring well GW-4S.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 4	Date: 3/22/2022		
Description:			
Recovery well RW-3D.			


Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 5	Date: 3/22/2022		
Description:			
Recovery well RW-1S.			


Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 6	Date: 3/22/2022		
Description:			
Monitoring well MW-18.			


Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 7	Date: 3/22/2022		
Description:			
Monitoring well MW-3.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 8	Date: 3/22/2022		
Description:			
Recovery well RW-8S.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 9	Date: 3/22/2022		
Description:			
Tailings Dump Area cap facing west.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 10	Date: 3/22/2022		
Description:			
Tailings Dump Area cap facing east.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 11	Date: 3/22/2022		
Description:			
Tailings Dump Area cap facing north.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 12	Date: 3/22/2022		
Description:			
Debris pile near Tailings Dump Area.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 13	Date: 3/22/2022		
Description:			
Site perimeter security fence and entrance gate along eastern edge of Site.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 14	Date: 3/22/2022		
Description:			
Security fence in front of north side of COSCO building.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 15	Date: 3/22/2022		
Description:			
Damaged section of perimeter security fence adjacent to COSCO building.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 16	Date: 3/22/2022		
Description:			
Damaged section of perimeter security fence north of West Central Ave. adjacent to the Tailings Dump Area.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 17	Date: 3/22/2022		
Description: Trespasser shelter along railroad tracks on the north side of recovery well RW-3D.			

Client name: NYSDEC		Site location: Spring Valley, NY	Project no.: 1940075217.005.016
Photo no. 18	Date: 3/22/2022		
Description: Trespasser debris pile on west side of recovery well RW-3D.			

APPENDIX C

GROUNDWATER SAMPLING FIELD FORMS

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New York**General**Well No.: **MW-3**Field Personnel: Charles Bruce, Christopher WeimanWeather Conditions: 2:00 SunnyPhysical Condition of Well: goodEquipment used: dedicated bailer.**Purging Information**Date: 7/27/21Purging Time: Start: 11:00Stop: 11:30Volume to be Purged (3 vol.): 2.3 gal.

Volume Purged: _____ gal.

Purging Method: Dedicated BailerPurge Water Disposal Method: Containerize, transport to, and treat at the remedial shed on-site.Measuring Point Elevation: 98.64 ft. amslWell Diameter: 2.00 in.Total Depth of Well Installed: 16.75 ft. bmpTotal Depth of Well Measured: 17.02 ft. bmpDepth to Water: 12.28 ft. bmp1 Well Volume: 4.47 X 163 = .77 gal.**Purge Water Characteristics**Color: Dark brownOdor: chemical odorTurbidity: highPresence of NAPL: slight sheen

Other: _____

Sampling InformationDate of Sample Collection: 7/26/21Time of Sample Collection: 11:35Sample Identification: MW-3-022721Method of Sample Collection: Dedicated BailerSample Description: 3Containers: 3 x 40ml glass vials unpreservedType of Preservative if any: none, cool 4°CAnalytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New YorkGeneral

Well No.: **MW-18**
Field Personnel: Charles Bruce, Christopher Weiman
Weather Conditions: 90°, Sunny
Physical Condition of Well: good
Equipment used: dedicated bailer

Purging Information

Date: 7/26/21
Purging Time: Start: 1430 Stop: 1450
Volume to be Purged (3 vol.): 7.5 gal.
Volume Purged: 7.5 gal.
Purging Method: Dedicated Bailer
Purge Water Disposal Method: Containerize, transport to, and treat at the remedial shed on-site.

Measuring Point Elevation: 99.32 ft. amsl
Well Diameter: 2.00 in.
Total Depth of Well Installed: 23 ft. bmp
Total Depth of Well Measured: 25 ft. bmp
Depth to Water: 11.51 ft. bmp
1 Well Volume: 14.47 X = 2.3 gal.

Purge Water Characteristics

Color: Pale Brown
Odor: Slight organic
Turbidity: high
Presence of NAPL: none
Other: _____

Sampling Information

Date of Sample Collection: 7/26/21
Time of Sample Collection: 1455
Sample Identification: MW-18-072621
Method of Sample Collection: Dedicated Bailer
Sample Description: _____
Containers: 3 x 40ml glass vials unpreserved
Type of Preservative if any: none, cool 4°C
Analytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Groundwater Monitoring Purging and Sampling Form

**COSCO Site
Spring Valley, New York**

General

Well No.: **GW-4S**
 Field Personnel: Charles Bruce, Christopher Weiman
 Weather Conditions: 80° Sunny
 Physical Condition of Well: Good
 Equipment used: Detentional 4" bailer.

Purging Information

Date: <u>7/26/21</u>	Measuring Point Elevation: <u>101.49</u> ft. amsl
Purging Time: Start: <u>13:10</u>	Well Diameter: <u>4.00</u> in.
Stop: <u>14:10</u>	Total Depth of Well Installed: <u>25</u> ft. bmp
Volume to be Purged (3 vol.): <u> </u> gal.	Total Depth of Well Measured: <u>25.48</u> ft. bmp
Volume Purged: <u> </u> gal.	Depth to Water: <u>12.74</u> ft. bmp
Purging Method: <u>Dedicated Bailer</u>	1 Well Volume: <u>15.74</u> X .653 = <u>10.28</u> gal.
Purge Water Disposal Method: <u>Containerize, transport to, and treat at the remedial shed on-site.</u>	

Purge Water Characteristics

Color: murky brown Presence of NAPL: No.
 Odor: - Other: -
 Turbidity: high

Sampling Information

Date of Sample Collection: 7/26/21
 Time of Sample Collection: 14:00
 Sample Identification: GW-4S-072621
 Method of Sample Collection: Dedicated Bailer
 Sample Description:
 Containers: 3 x 40ml glass vials unpreserved
 Type of Preservative if any: none, cool 4°C
 Analytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New York

General

Well No.: **RW-1S**
Field Personnel: Charles Bruce, Christopher Weiman
Weather Conditions: 90 +, Sunny
Physical Condition of Well: Good
Equipment used: dedicated sampler

Purging Information

Date:	<u>7/27/21</u>	Measuring Point Elevation:	<u>101.00</u>	ft. amsl
Purging Time:	Start: <u>1315</u>	Well Diameter:	<u>4.00</u>	in.
	Stop: <u>1355</u>	Total Depth of Well Installed:	<u>28</u>	ft. bmp
Volume to be Purged (3 vol.):	<u>23.74</u> gal.	Total Depth of Well Measured:	<u>28.61</u>	ft. bmp
Volume Purged:	<u>25</u> gal.	Depth to Water:	<u>13.47</u>	ft. bmp
Purging Method:	<u>Dedicated Bailer</u>	1 Well Volume:	<u>12.12</u>	$\times 653 =$ 653 gal.
Purge Water Disposal Method:	<u>Containerize, transport to, and treat at the remedial shed on-site.</u> <u>7.91</u>			

Purge Water Characteristics

Color: clear Presence of NAPL:
Odor: none Other:
Turbidity: low

Sampling Information

Date of Sample Collection:	7/27/21
Time of Sample Collection:	1:10
Sample Identification:	RW-15-072721
Method of Sample Collection:	Dedicated Bailer
Sample Description:	
Containers:	3 x 40ml glass vov vials unpreserved
Type of Preservative if any:	none, cool 4°C
Analytical Method Requested:	VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New YorkGeneral

Well No.: **RW-8S**
Field Personnel: Charles Bruce, Christopher Weiman
Weather Conditions: 90°+ Sunny
Physical Condition of Well: good
Equipment used: dedicated bailer

Purging Information

Date: 7/27/21 Measuring Point Elevation: 97.74 ft. amsl
Purging Time: Start: 1110 Well Diameter: 4.00 in.
Stop: 1135 Total Depth of Well Installed: 25 ft. bmp
Volume to be Purged (3 vol.): 25.36 gal. Total Depth of Well Measured: 23.22 ft. bmp
Volume Purged: ~26 gal. Depth to Water: 10.27 ft. bmp
Purging Method: Dedicated Bailer 1 Well Volume: 12.95 X 0.653 = 8.45 gal.
Purge Water Disposal Method: Containerize, transport to, and treat at the remedial shed on-site.

Purge Water Characteristics

Color: Brown Presence of NAPL: —
Odor: Organic Other: —
Turbidity: high

Sampling Information

Date of Sample Collection: 7/27/21
Time of Sample Collection: 1140
Sample Identification: RW-8S-072721
Method of Sample Collection: Dedicated Bailer
Sample Description: _____
Containers: 3 x 40ml glass vials unpreserved
Type of Preservative if any: none, cool 4°C
Analytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New YorkGeneral

Well No.: **DW-1**
Field Personnel: Charles Bruce, Christopher Weiman
Weather Conditions: _____
Physical Condition of Well: _____
Equipment used: _____

Purging Information

Date: 7/27/21
Purging Time: Start: 1315
Stop: 1435
Volume to be Purged (3 vol.): 73.8 gal.
Volume Purged: 74 gal.
Purging Method: Dedicated Bailer
Purge Water Disposal Method: Containerize, transport to, and treat at the remedial shed on-site.

Measuring Point Elevation: 100.12 ft. amsl
Well Diameter: 4.00 in.
Total Depth of Well Installed: 66 ft. bmp
Total Depth of Well Measured: 68.2 ft. bmp
Depth to Water: 30.5 ft. bmp
1 Well Volume: 29.62 X = 29.62 gal.

Purge Water Characteristics

Color: Clear
Odor: none
Turbidity: no low

Presence of NAPL: —
Other: _____

Sampling Information

Date of Sample Collection: 7/27/21
Time of Sample Collection: 1445
Sample Identification: ~~DW-1~~ DW-1-072721 / DW-1-MS / DW-1-MSD
Method of Sample Collection: Dedicated Bailer
Sample Description: _____
Containers: 3 x 40ml glass vials unpreserved
Type of Preservative if any: none, cool 4°C
Analytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New York

General

Well No.: **GP-4D**
 Field Personnel: **Charles Bruce, Christopher Weiman**
 Weather Conditions: **85° i, sunny**
 Physical Condition of Well: **good**
 Equipment used: **dedicated bailer**

Purging Information

Date:	7/26/21	Measuring Point Elevation:	100.01	ft. amsl
Purging Time:	Start: 1230	Well Diameter:	2.00	in.
	Stop: 1405	Total Depth of Well Installed:	99	ft. bmp
Volume to be Purged (3 vol.):	41 gal.	Total Depth of Well Measured:	98.65	ft. bmp
Volume Purged:	~42 gal.	Depth to Water:	13.36	ft. bmp
Purging Method:	Dedicated Bailer	1 Well Volume:	85.27	X .63 = 13.70 gal.
Purge Water Disposal Method:	Containerize, transport to, and treat at the remedial shed on-site.			

Purge Water Characteristics

Color:	clear	Presence of NAPL:	none
Odor:	none	Other:	
Turbidity:	very low		

Sampling Information

Date of Sample Collection: **7/26/21**
 Time of Sample Collection: **1410**
 Sample Identification: **GP-4D-072621 / DWP-1-072621**
 Method of Sample Collection: **Dedicated Bailer**
 Sample Description:
 Containers: **3 x 40ml glass vials unpreserved**
 Type of Preservative if any: **none, cool 4°C**
 Analytical Method Requested: **VOCs by USEPA Method 624**

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

collected dup @ this location

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New York**General**Well No.: **RW-3D**

Field Personnel: Charles Bruce, Christopher Weiman

Weather Conditions:

Physical Condition of Well:

Equipment used: Pump/Recharge system port**Purging Information**Date: 7/27/21

Purging Time: Start: _____

Stop: _____

Volume to be Purged (3 vol.): _____ gal.

Volume Purged: _____ gal.

Purging Method: Dedicated BailerPurge Water Disposal Method: Containerize, transport to, and treat at the remedial shed on-site.Measuring Point Elevation: 100.54 ft. amslWell Diameter: 6.00 in.Total Depth of Well Installed: 102.5 ft. bmp

Total Depth of Well Measured: _____ ft. bmp

Depth to Water: _____ ft. bmp

1 Well Volume: X = _____ gal.**Purge Water Characteristics**Color: ClearOdor: NoneTurbidity: low

Presence of NAPL: _____

Other: _____

Sampling InformationDate of Sample Collection: 7/27/21Time of Sample Collection: 1040Sample Identification: RW-3D-072721Method of Sample Collection: Dedicated Bailer

Sample Description:

Containers: 3 x 40ml glass vials unpreservedType of Preservative if any: none, cool 4°CAnalytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Groundwater Monitoring Purging and Sampling Form

**COSCO Site
Spring Valley, New York**

General

Well No.: ⑥ 32222 MW-13 3
 Field Personnel: SET
 Weather Conditions: ±45°F, Sunny
 Physical Condition of Well: Fair
 Equipment used: Dedicated bailer

Purging Information

Date:	<u>3/22/22</u>	Measuring Point Elevation:	<u>98.64</u> ft. amsl
Purging Time:	Start: <u>0845</u> Stop: <u>0855</u>	Well Diameter:	<u>2.00</u> in.
Volume to be Purged (3 vol.):	<u>2.82</u> gal.	Total Depth of Well Installed:	<u>16.75</u> ft. bmp
Volume Purged:	<u>2.80</u> gal.	Total Depth of Well Measured:	<u>17.14</u> ft. bmp
Purging Method:	<u>Dedicated Bailer</u>	Depth to Water:	<u>11.40</u> ft. bmp
Purge Water Disposal Method:	<u>1 Well Volume: 5.74 X 0.163 = 0.94 gal.</u>		
	<u>Containerize, transport to, and treat at the remedial shed on-site.</u>		

Purge Water Characteristics

Color:	<u>light brown</u>	Presence of NAPL:	<u>none slight sheen</u>
Odor:	<u>none</u>	Other:	
Turbidity:	<u>high</u>		

Sampling Information

Date of Sample Collection: 3/22/22
 Time of Sample Collection: 0900
 Sample Identification: MW-3-032222
 Method of Sample Collection: Dedicated Bailer
 Sample Description: light brown, turbid, slight sheen
 Containers: 3 x 40ml glass vials unpreserved
 Type of Preservative if any: none, cool 4°C
 Analytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New York

General

Well No.: MW-18
 Field Personnel: SET
 Weather Conditions: ±50°F Sunny
 Physical Condition of Well: Fair
 Equipment used: Dedicated bailer

Purging Information

Date: 3/22/22 Measuring Point Elevation: 99.32 ft. amsl
 Purging Time: Start: 1235 Well Diameter: 2.00 in.
 Stop: 1325* Total Depth of Well Installed: 23 ft. bmp
 Volume to be Purged (3 vol.): 6.03 gal. Total Depth of Well Measured: 25.04 ft. bmp
 Volume Purged: 6.00 gal. Depth to Water: 12.71 ft. bmp
 Purging Method: Dedicated Bailer 1 Well Volume: 12.33 X 0.163 = 2.01 gal.
 Purge Water Disposal Method: Containerize, transport to, and treat at the remedial shed on-site.

Purge Water Characteristics

Color: Light brown Presence of NAPL: NONE
 Odor: Slight chemical Other: _____
 Turbidity: Moderate-high

Sampling Information

Date of Sample Collection: 3/22/22
 Time of Sample Collection: 1335
 Sample Identification: MW-18-032222 ; MW-18-032222-MS ; MW-18-032222-MSD
 Method of Sample Collection: Dedicated Bailer
 Sample Description: Light brown, slight odor
 Containers: 3 x 40ml glass vial vials unpreserved
 Type of Preservative if any: none, cool 4°C
 Analytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

*Purging was paused from 1245-1315 due to site visitor
MS/MSD collected
Needs new bailer

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New York

General

Well No.: **GW-4S**
Field Personnel: CDW
Weather Conditions: 50°, sunny
Physical Condition of Well: fair
Equipment used: Dedicated bailer

Purging Information

Date:	<u>3/21/22</u>	Measuring Point Elevation:	<u>101.49</u>	ft. amsl
Purging Time:	Start: <u>1150</u>	Well Diameter:	<u>4.00</u>	in.
	Stop: <u>1225</u>	Total Depth of Well Installed:	<u>25</u>	ft. bmp
Volume to be Purged (3 vol.):	<u>28.0</u> gal.	Total Depth of Well Measured:	<u>28.08</u>	ft. bmp
Volume Purged:	<u>29</u> gal.	Depth to Water:	<u>13.65</u>	ft. bmp
Purging Method:	<u>Dedicated Bailer</u>	1 Well Volume:	<u>14.43</u> X <u>0.63</u>	= <u>9.42</u> gal.
Purge Water Disposal Method:	<u>Containerize, transport to, and treat at the remedial shed on-site.</u>			

Purge Water Characteristics

Color: pinkish brown
Odor: very slight chem
Turbidity: mod

Presence of NAPL: none
Other: _____

Sampling Information

Date of Sample Collection:	3/21/2022
Time of Sample Collection:	1230
Sample Identification:	GW-45-032122
Method of Sample Collection:	Dedicated Bailor
Sample Description:	
Containers:	3 x 40ml glass voa vials unpreserved
Type of Preservative if any:	none, cool 4°C
Analytical Method Requested:	VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New York

General

Well No.: RW-1S
Field Personnel: CDW
Weather Conditions: ±50°F, sunny
Physical Condition of Well: Fair
Equipment used: Dedicated bailer

Purging Information

Date: 3/22/22 Measuring Point Elevation: 101.00 ft. amsl
Purging Time: Start: 1235 Well Diameter: 4.00 in.
Stop: 1330 Total Depth of Well Installed: 28 ft. bmp
Volume to be Purged (3 vol.): 27.8 gal. Total Depth of Well Measured: 28.75 ft. bmp
Volume Purged: 28 gal. Depth to Water: 14.56 ft. bmp
Purging Method: Dedicated Bailer 1 Well Volume: 14.19 X 0.653 = 9.27 gal. 3/22/22
Purge Water Disposal Method: Containerize, transport to, and treat at the remedial shed on-site.
0.653 = 9.27

Purge Water Characteristics

Color: pink brown Presence of NAPL: none
Odor: none Other: -
Turbidity: med-low

Sampling Information

Date of Sample Collection: 3/22/22
Time of Sample Collection: 1335
Sample Identification: RW-1S-037222
Method of Sample Collection: Dedicated Bailer
Sample Description: _____
Containers: 3 x 40ml glass voa vials unpreserved
Type of Preservative if any: none, cool 4°C
Analytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New York

General

Well No.: **RW-8S**
 Field Personnel: CDU
 Weather Conditions: 45° sunny
 Physical Condition of Well: fair
 Equipment used: Dedicated bailer

Purging Information

Date:	<u>03/22/2022</u>	Measuring Point Elevation:	<u>97.74</u> ft. amsl
Purging Time:	Start: <u>8:45</u> Stop: <u>9:20</u>	Well Diameter:	<u>4.00</u> in.
		Total Depth of Well Installed:	<u>25</u> ft. bmp
Volume to be Purged (3 vol.):	<u>22.7</u> gal.	Total Depth of Well Measured:	<u>23.03</u> (soft) ft. bmp
Volume Purged:	<u>23</u> gal.	Depth to Water:	<u>11.44</u> ft. bmp
Purging Method:	<u>Dedicated Bailer</u>	1 Well Volume:	<u>23</u> <u>11.59</u> X <u>.653</u> = <u>7.56</u> gal.
Purge Water Disposal Method:	<u>Containerize, transport to, and treat at the remedial shed on-site.</u>		

Purge Water Characteristics

Color:	<u>Brown</u>	Presence of NAPL:	<u>none</u>
Odor:	<u>none</u>	Other:	<u>—</u>
Turbidity:	<u>high</u>		

Sampling Information

Date of Sample Collection: 03/22/22
 Time of Sample Collection: 9:15
 Sample Identification: RW-8S-032222
 Method of Sample Collection: Dedicated Bailer
 Sample Description: light brown
 Containers: 3 x 40ml glass vials unpreserved
 Type of Preservative if any: none, cool 4°C
 Analytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New York

General

Well No.: DW-1
Field Personnel: SET + CDW
Weather Conditions: ±55°F Sunny
Physical Condition of Well: Fine
Equipment used: Dedicated bailer

Purging Information

Date:	<u>3-21-22</u>	Measuring Point Elevation:	<u>100.12</u> ft. amsl
Purging Time:	Start: <u>1430</u>	Well Diameter:	<u>4.00</u> in.
	Stop: <u>1520</u>	Total Depth of Well Installed:	<u>66</u> ft. bmp
Volume to be Purged (3 vol.):	<u>69.57 gal.</u>	Total Depth of Well Measured:	<u>64.04</u> ft. bmp
Volume Purged:	<u>69.50 gal.</u>	Depth to Water:	<u>28.52</u> ft. bmp
Purging Method:	<u>Dedicated Bailer</u>	1 Well Volume:	<u>35.52 X 0.653 = 23.19 gal.</u>
Purge Water Disposal Method:	<u>Containerize, transport to, and treat at the remedial shed on-site.</u>		

Purge Water Characteristics

Color: clear, slightly cloudy
Odor: none
Turbidity: low
Presence of NAPL: none
Other: _____

Sampling Information

Date of Sample Collection: 3/21/22
Time of Sample Collection: 1525
Sample Identification: DW-1-032122
Method of Sample Collection: Dedicated Bailer
Sample Description: _____
Containers: 3 x 40ml glass voa vials unpreserved
Type of Preservative if any: none, cool 4°C
Analytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New York

General

Well No.: GP-4D
Field Personnel: SET
Weather Conditions: ±45°F Sunny
Physical Condition of Well: Fair
Equipment used: Dedicated bailer

Purging Information

Date:	<u>3/21/22</u>	Measuring Point Elevation:	<u>100.01</u> ft. amsl
Purging Time:	Start: <u>1200</u>	Well Diameter:	<u>2.00</u> in.
	Stop: <u>1300</u>	Total Depth of Well Installed:	<u>99</u> ft. bmp
Volume to be Purged (3 vol.):	<u>41.49 gal.</u>	Total Depth of Well Measured:	<u>98.60</u> ft. bmp
Volume Purged:	<u>41.50 gal.</u>	Depth to Water:	<u>13.73</u> ft. bmp
Purging Method:	<u>Dedicated Bailer</u>	1 Well Volume:	<u>84.87</u> X 0.163 = <u>13.83</u> gal.
Purge Water Disposal Method:	<u>Containerize, transport to, and treat at the remedial shed on-site.</u>		

Purge Water Characteristics

Color: <u>Clear</u>	Presence of NAPL: <u>None</u>
Odor: <u>none</u>	Other: <u>—</u>
Turbidity: <u>low</u>	

Sampling Information

Date of Sample Collection: 3/21/22
Time of Sample Collection: 1300
Sample Identification: GP-4D-032122 / DUP-01-032122
Method of Sample Collection: Dedicated Bailer
Sample Description: _____
Containers: 3 x 40ml glass vials unpreserved
Type of Preservative if any: none, cool 4°C
Analytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Dup collected here

Groundwater Monitoring Purging and Sampling Form

COSCO Site
Spring Valley, New York

General

Well No.: RW-3D
Field Personnel: SET + CDW
Weather Conditions: ±50°F, sunny
Physical Condition of Well: Fair, pump in well
Equipment used: Dedicated bailer

Purging Information

Date:	<u>3/22/22</u>	Measuring Point Elevation:	<u>100.54</u> ft. amsl
Purging Time:	Start: <u>—</u>	Well Diameter:	<u>6.00</u> in.
	Stop: <u>—</u>	Total Depth of Well Installed:	<u>102.5</u> ft. bmp
Volume to be Purged (3 vol.):	<u>98.70</u> gal.	Total Depth of Well Measured:	<u>100.94</u> ft. bmp
Volume Purged:	<u>—</u> gal.	Depth to Water:	<u>30.52</u> ft. bmp
Purging Method:	<u>Dedicated Bailer</u>	1 Well Volume:	<u>50.42 X 0.653 = 32.92</u> gal.
Purge Water Disposal Method:	<u>Containerize, transport to, and treat at the remedial shed on-site.</u>		

Purge Water Characteristics

Color:	<u>—</u>	Presence of NAPL:	<u>—</u>
Odor:	<u>—</u>	Other:	<u>—</u>
Turbidity:	<u>—</u>		

Sampling Information

Date of Sample Collection: —
Time of Sample Collection: —
Sample Identification: —
Method of Sample Collection: Dedicated Bailer
Sample Description: —
Containers: 3 x 40ml glass vials unpreserved
Type of Preservative if any: none, cool 4°C
Analytical Method Requested: VOCs by USEPA Method 624

4" well volume multiplier (gallons per foot) = 0.653 2" well volume multiplier (gallons per foot) = 0.163

Notes

Do not collect DIB in future - wim will get stuck
Well not purged due to pump in well.
Well not sampled (not pumping).

APPENDIX D
SUMMARY OF LABORATORY ANALYTICAL RESULTS

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187661-1

Client Sample ID: GW-4S-072621

Lab Sample ID: 480-187661-1

Date Collected: 07/26/21 14:00

Matrix: Water

Date Received: 07/27/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 16:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/29/21 16:22	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 16:22	1
1,1-Dichloroethane	ND	UJ VSM 4/26/22	1.0	0.26	ug/L			07/29/21 16:22	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/29/21 16:22	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 16:22	1
1,2-Dichloroethane	ND	UJ VSM 4/26/22	1.0	0.84	ug/L			07/29/21 16:22	1
1,2-Dichloroethene, Total	0.75	J- JH	2.0	0.44	ug/L			07/29/21 16:22	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/29/21 16:22	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 16:22	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 16:22	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 16:22	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 16:22	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 16:22	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 16:22	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 16:22	1
Bromomethane	ND	UJ VSM 4/26/22	1.0	0.45	ug/L			07/29/21 16:22	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 16:22	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 16:22	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 16:22	1
Chloroethane	ND	UJ	1.0	0.32	ug/L			07/29/21 16:22	1
Chloroform	ND	UJ VSM 4/26/22	1.0	0.33	ug/L			07/29/21 16:22	1
Chloromethane	ND	UJ	1.0	0.43	ug/L			07/29/21 16:22	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 16:22	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/29/21 16:22	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 16:22	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 16:22	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/29/21 16:22	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 16:22	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 16:22	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 16:22	1
Trichloroethene	4.5		1.0	0.31	ug/L			07/29/21 16:22	1
Vinyl chloride	ND	UJ VSM 4/26/22	1.0	0.34	ug/L			07/29/21 16:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	133		60 - 140		07/29/21 16:22	1
4-Bromofluorobenzene	95		60 - 140		07/29/21 16:22	1
Toluene-d8 (Surr)	102		60 - 140		07/29/21 16:22	1
Dibromofluoromethane (Surr)	116		60 - 140		07/29/21 16:22	1

Client Sample ID: GP-4D-072621

Lab Sample ID: 480-187661-2

Date Collected: 07/26/21 14:10

Matrix: Water

Date Received: 07/27/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 16:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/29/21 16:45	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 16:45	1
1,1-Dichloroethane	ND	UJ VSM 4/26/22	1.0	0.26	ug/L			07/29/21 16:45	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187661-1

Client Sample ID: GP-4D-072621

Lab Sample ID: 480-187661-2

Date Collected: 07/26/21 14:10

Matrix: Water

Date Received: 07/27/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/29/21 16:45	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 16:45	1
1,2-Dichloroethane	ND	UJ VSPM 4/26/22	1.0	0.84	ug/L			07/29/21 16:45	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/29/21 16:45	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/29/21 16:45	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 16:45	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 16:45	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 16:45	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 16:45	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 16:45	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 16:45	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 16:45	1
Bromomethane	ND	UJ VSPM 4/26/22	1.0	0.45	ug/L			07/29/21 16:45	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 16:45	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 16:45	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 16:45	1
Chloroethane	ND	UJ	1.0	0.32	ug/L			07/29/21 16:45	1
Chloroform	ND	UJ VSPM 4/26/22	1.0	0.33	ug/L			07/29/21 16:45	1
Chloromethane	ND	UJ	1.0	0.43	ug/L			07/29/21 16:45	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 16:45	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/29/21 16:45	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 16:45	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 16:45	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/29/21 16:45	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 16:45	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 16:45	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 16:45	1
Trichloroethene	ND		1.0	0.31	ug/L			07/29/21 16:45	1
Vinyl chloride	ND	UJ VSPM 4/26/22	1.0	0.34	ug/L			07/29/21 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	132		60 - 140		07/29/21 16:45	1
4-Bromofluorobenzene	88		60 - 140		07/29/21 16:45	1
Toluene-d8 (Surr)	100		60 - 140		07/29/21 16:45	1
Dibromofluoromethane (Surr)	115		60 - 140		07/29/21 16:45	1

Client Sample ID: MW-18-072621

Lab Sample ID: 480-187661-3

Date Collected: 07/26/21 14:55

Matrix: Water

Date Received: 07/27/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 17:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/29/21 17:07	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 17:07	1
1,1-Dichloroethane	ND	UJ VSPM 4/26/22	1.0	0.26	ug/L			07/29/21 17:07	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/29/21 17:07	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 17:07	1
1,2-Dichloroethane	ND	UJ	1.0	0.84	ug/L			07/29/21 17:07	1
1,2-Dichloroethene, Total	17	JH VSPM 4/26/22	2.0	0.44	ug/L			07/29/21 17:07	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187661-1

Client Sample ID: MW-18-072621

Lab Sample ID: 480-187661-3

Date Collected: 07/26/21 14:55

Matrix: Water

Date Received: 07/27/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/29/21 17:07	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 17:07	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 17:07	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 17:07	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 17:07	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 17:07	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 17:07	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 17:07	1
Bromomethane	ND	UJ	1.0	0.45	ug/L			07/29/21 17:07	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 17:07	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 17:07	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 17:07	1
Chloroethane	ND	UJ	1.0	0.32	ug/L			07/29/21 17:07	1
Chloroform	ND	UJ	1.0	0.33	ug/L			07/29/21 17:07	1
Chloromethane	ND	UJ	1.0	0.43	ug/L			07/29/21 17:07	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 17:07	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/29/21 17:07	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 17:07	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 17:07	1
Tetrachloroethene	0.74	J	1.0	0.25	ug/L			07/29/21 17:07	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 17:07	1
trans-1,2-Dichloroethene	0.33	JH	1.0	0.24	ug/L			07/29/21 17:07	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 17:07	1
Trichloroethene	1.8		1.0	0.31	ug/L			07/29/21 17:07	1
Vinyl chloride	17	JH	1.0	0.34	ug/L			07/29/21 17:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	151	S1+	60 - 140		07/29/21 17:07	1
4-Bromofluorobenzene	106		60 - 140		07/29/21 17:07	1
Toluene-d8 (Surr)	116		60 - 140		07/29/21 17:07	1
Dibromofluoromethane (Surr)	135		60 - 140		07/29/21 17:07	1

Client Sample ID: DUP-1-072621

Lab Sample ID: 480-187661-4

Date Collected: 07/26/21 00:00

Matrix: Water

Date Received: 07/27/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 17:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/29/21 17:30	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 17:30	1
1,1-Dichloroethane	ND	UJ	1.0	0.26	ug/L			07/29/21 17:30	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/29/21 17:30	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 17:30	1
1,2-Dichloroethane	ND	UJ	1.0	0.84	ug/L			07/29/21 17:30	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/29/21 17:30	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/29/21 17:30	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 17:30	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 17:30	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 17:30	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187661-1

Client Sample ID: DUP-1-072621

Lab Sample ID: 480-187661-4

Date Collected: 07/26/21 00:00

Matrix: Water

Date Received: 07/27/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		4.0	1.1	ug/L			07/29/21 17:30	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 17:30	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 17:30	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 17:30	1
Bromomethane	ND	UJ	1.0	0.45	ug/L			07/29/21 17:30	1
Carbon tetrachloride	ND	VSM 4/26/22	1.0	0.21	ug/L			07/29/21 17:30	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 17:30	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 17:30	1
Chloroethane	ND	UJ	1.0	0.32	ug/L			07/29/21 17:30	1
Chloroform	ND	UJ	1.0	0.33	ug/L			07/29/21 17:30	1
Chloromethane	ND	UJ	1.0	0.43	ug/L			07/29/21 17:30	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 17:30	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/29/21 17:30	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 17:30	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 17:30	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/29/21 17:30	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 17:30	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 17:30	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 17:30	1
Trichloroethene	ND		1.0	0.31	ug/L			07/29/21 17:30	1
Vinyl chloride	ND	UJ	1.0	0.34	ug/L			07/29/21 17:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	133		60 - 140					07/29/21 17:30	1
4-Bromofluorobenzene	95		60 - 140					07/29/21 17:30	1
Toluene-d8 (Surr)	102		60 - 140					07/29/21 17:30	1
Dibromofluoromethane (Surr)	119		60 - 140					07/29/21 17:30	1

Client Sample ID: TRIP BLANK 072621

Lab Sample ID: 480-187661-5

Date Collected: 07/26/21 00:00

Matrix: Water

Date Received: 07/27/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 16:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/29/21 16:00	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 16:00	1
1,1-Dichloroethane	ND	UJ	1.0	0.26	ug/L			07/29/21 16:00	1
1,1-Dichloroethene	ND	VSM 4/26/22	1.0	0.12	ug/L			07/29/21 16:00	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 16:00	1
1,2-Dichloroethane	ND	UJ	1.0	0.84	ug/L			07/29/21 16:00	1
1,2-Dichloroethene, Total	ND	VSM 4/26/22	2.0	0.44	ug/L			07/29/21 16:00	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/29/21 16:00	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 16:00	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 16:00	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 16:00	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 16:00	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 16:00	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 16:00	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 16:00	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187661-1

Client Sample ID: TRIP BLANK 072621

Lab Sample ID: 480-187661-5

Date Collected: 07/26/21 00:00

Matrix: Water

Date Received: 07/27/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND	UJ <i>VJP 4/26/22</i>	1.0	0.45	ug/L			07/29/21 16:00	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 16:00	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 16:00	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 16:00	1
Chloroethane	ND	UJ	1.0	0.32	ug/L			07/29/21 16:00	1
Chloroform	ND	UJ <i>VJP 4/26/22</i>	1.0	0.33	ug/L			07/29/21 16:00	1
Chloromethane	ND	UJ	1.0	0.43	ug/L			07/29/21 16:00	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 16:00	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/29/21 16:00	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 16:00	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 16:00	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/29/21 16:00	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 16:00	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 16:00	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 16:00	1
Trichloroethene	ND		1.0	0.31	ug/L			07/29/21 16:00	1
Vinyl chloride	ND	UJ <i>VJP 4/26/22</i>	1.0	0.34	ug/L			07/29/21 16:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		60 - 140		07/29/21 16:00	1
4-Bromofluorobenzene	86		60 - 140		07/29/21 16:00	1
Toluene-d8 (Surr)	96		60 - 140		07/29/21 16:00	1
Dibromofluoromethane (Surr)	110		60 - 140		07/29/21 16:00	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: MW-3-072721

Lab Sample ID: 460-239698-1

Date Collected: 07/27/21 11:35

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 04:29	1
1,1,2,2-Tetrachloroethane	ND	UJ VSM 4/26/22	1.0	0.37	ug/L			07/29/21 04:29	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 04:29	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/29/21 04:29	1
1,1-Dichloroethene	ND	UJ VSM 4/26/22	1.0	0.12	ug/L			07/29/21 04:29	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 04:29	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/29/21 04:29	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/29/21 04:29	1
1,2-Dichloropropane	ND	UJ VSM 4/26/22	1.0	0.35	ug/L			07/29/21 04:29	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 04:29	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 04:29	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 04:29	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 04:29	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 04:29	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 04:29	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 04:29	1
Bromomethane	ND		1.0	0.45	ug/L			07/29/21 04:29	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 04:29	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 04:29	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 04:29	1
Chloroethane	ND		1.0	0.32	ug/L			07/29/21 04:29	1
Chloroform	ND		1.0	0.33	ug/L			07/29/21 04:29	1
Chloromethane	ND		1.0	0.43	ug/L			07/29/21 04:29	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 04:29	1
Bromodichloromethane	ND	UJ VSM 4/26/22	1.0	0.34	ug/L			07/29/21 04:29	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 04:29	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 04:29	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/29/21 04:29	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 04:29	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 04:29	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 04:29	1
Trichloroethene	ND		1.0	0.31	ug/L			07/29/21 04:29	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/29/21 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		60 - 140		07/29/21 04:29	1
4-Bromofluorobenzene	92		60 - 140		07/29/21 04:29	1
Toluene-d8 (Surr)	101		60 - 140		07/29/21 04:29	1
Dibromofluoromethane (Surr)	96		60 - 140		07/29/21 04:29	1

Client Sample ID: RW-8S-072721

Lab Sample ID: 460-239698-2

Date Collected: 07/27/21 11:40

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 04:52	1
1,1,2,2-Tetrachloroethane	ND	UJ VSM 4/26/22	1.0	0.37	ug/L			07/29/21 04:52	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 04:52	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/29/21 04:52	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: RW-8S-072721

Lab Sample ID: 460-239698-2

Date Collected: 07/27/21 11:40

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND	UJ VSPH 4/26/22	1.0	0.12	ug/L			07/29/21 04:52	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 04:52	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/29/21 04:52	1
1,2-Dichloroethene, Total	7.7		2.0	0.44	ug/L			07/29/21 04:52	1
1,2-Dichloropropane	ND	UJ VSPH 4/26/22	1.0	0.35	ug/L			07/29/21 04:52	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 04:52	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 04:52	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 04:52	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 04:52	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 04:52	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 04:52	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 04:52	1
Bromomethane	ND		1.0	0.45	ug/L			07/29/21 04:52	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 04:52	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 04:52	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 04:52	1
Chloroethane	ND		1.0	0.32	ug/L			07/29/21 04:52	1
Chloroform	ND		1.0	0.33	ug/L			07/29/21 04:52	1
Chloromethane	ND		1.0	0.43	ug/L			07/29/21 04:52	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 04:52	1
Bromodichloromethane	ND	UJ VSPH 4/26/22	1.0	0.34	ug/L			07/29/21 04:52	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 04:52	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 04:52	1
Tetrachloroethene	0.89	J	1.0	0.25	ug/L			07/29/21 04:52	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 04:52	1
trans-1,2-Dichloroethene	0.24	J	1.0	0.24	ug/L			07/29/21 04:52	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 04:52	1
Trichloroethene	10		1.0	0.31	ug/L			07/29/21 04:52	1
Vinyl chloride	0.53	J	1.0	0.34	ug/L			07/29/21 04:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		60 - 140		07/29/21 04:52	1
4-Bromofluorobenzene	90		60 - 140		07/29/21 04:52	1
Toluene-d8 (Surr)	100		60 - 140		07/29/21 04:52	1
Dibromofluoromethane (Surr)	96		60 - 140		07/29/21 04:52	1

Client Sample ID: RW-3D-072721

Lab Sample ID: 460-239698-3

Date Collected: 07/27/21 10:40

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 06:01	1
1,1,2,2-Tetrachloroethane	ND	UJ VSPH 4/26/22	1.0	0.37	ug/L			07/29/21 06:01	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 06:01	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/29/21 06:01	1
1,1-Dichloroethene	ND	UJ VSPH 4/26/22	1.0	0.12	ug/L			07/29/21 06:01	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 06:01	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/29/21 06:01	1
1,2-Dichloroethene, Total	32		2.0	0.44	ug/L			07/29/21 06:01	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: RW-3D-072721

Lab Sample ID: 460-239698-3

Date Collected: 07/27/21 10:40

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND	UJ VJm 4/26/22	1.0	0.35	ug/L			07/29/21 06:01	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 06:01	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 06:01	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 06:01	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 06:01	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 06:01	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 06:01	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 06:01	1
Bromomethane	ND		1.0	0.45	ug/L			07/29/21 06:01	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 06:01	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 06:01	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 06:01	1
Chloroethane	ND		1.0	0.32	ug/L			07/29/21 06:01	1
Chloroform	0.53	J	1.0	0.33	ug/L			07/29/21 06:01	1
Chloromethane	ND		1.0	0.43	ug/L			07/29/21 06:01	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 06:01	1
Bromodichloromethane	ND	UJ VJm 4/26/22	1.0	0.34	ug/L			07/29/21 06:01	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 06:01	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 06:01	1
Tetrachloroethene	68		1.0	0.25	ug/L			07/29/21 06:01	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 06:01	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 06:01	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 06:01	1
Trichloroethene	69		1.0	0.31	ug/L			07/29/21 06:01	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/29/21 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		60 - 140		07/29/21 06:01	1
4-Bromofluorobenzene	92		60 - 140		07/29/21 06:01	1
Toluene-d8 (Surr)	100		60 - 140		07/29/21 06:01	1
Dibromofluoromethane (Surr)	98		60 - 140		07/29/21 06:01	1

Client Sample ID: RW-1S-072721

Lab Sample ID: 460-239698-4

Date Collected: 07/27/21 14:00

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 05:15	1
1,1,2,2-Tetrachloroethane	ND	UJ VJm 4/26/22	1.0	0.37	ug/L			07/29/21 05:15	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 05:15	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/29/21 05:15	1
1,1-Dichloroethene	ND	UJ VJm 4/26/22	1.0	0.12	ug/L			07/29/21 05:15	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 05:15	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/29/21 05:15	1
1,2-Dichloroethene, Total	1.5	J	2.0	0.44	ug/L			07/29/21 05:15	1
1,2-Dichloropropane	ND	UJ VJm 4/26/22	1.0	0.35	ug/L			07/29/21 05:15	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 05:15	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 05:15	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 05:15	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: RW-1S-072721

Lab Sample ID: 460-239698-4

Date Collected: 07/27/21 14:00

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		4.0	1.1	ug/L			07/29/21 05:15	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 05:15	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 05:15	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 05:15	1
Bromomethane	ND		1.0	0.45	ug/L			07/29/21 05:15	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 05:15	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 05:15	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 05:15	1
Chloroethane	ND		1.0	0.32	ug/L			07/29/21 05:15	1
Chloroform	ND		1.0	0.33	ug/L			07/29/21 05:15	1
Chloromethane	ND		1.0	0.43	ug/L			07/29/21 05:15	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 05:15	1
Bromodichloromethane	ND	UJ VJPM 4/26/22	1.0	0.34	ug/L			07/29/21 05:15	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 05:15	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 05:15	1
Tetrachloroethene	0.75	J	1.0	0.25	ug/L			07/29/21 05:15	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 05:15	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 05:15	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 05:15	1
Trichloroethene	6.4		1.0	0.31	ug/L			07/29/21 05:15	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/29/21 05:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		60 - 140		07/29/21 05:15	1
4-Bromofluorobenzene	90		60 - 140		07/29/21 05:15	1
Toluene-d8 (Surr)	101		60 - 140		07/29/21 05:15	1
Dibromofluoromethane (Surr)	96		60 - 140		07/29/21 05:15	1

Client Sample ID: DW-1-072721

Lab Sample ID: 460-239698-5

Date Collected: 07/27/21 14:40

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 05:38	1
1,1,2,2-Tetrachloroethane	ND	UJ VJPM 4/26/22	1.0	0.37	ug/L			07/29/21 05:38	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 05:38	1
1,1-Dichloroethane	ND	VJPM 4/26/22	1.0	0.26	ug/L			07/29/21 05:38	1
1,1-Dichloroethene	ND	UJ	1.0	0.12	ug/L			07/29/21 05:38	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 05:38	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/29/21 05:38	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/29/21 05:38	1
1,2-Dichloropropane	ND	UJ VJPM 4/26/22	1.0	0.35	ug/L			07/29/21 05:38	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 05:38	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 05:38	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 05:38	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 05:38	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 05:38	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 05:38	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 05:38	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: DW-1-072721

Lab Sample ID: 460-239698-5

Date Collected: 07/27/21 14:40

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0	0.45	ug/L			07/29/21 05:38	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 05:38	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 05:38	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 05:38	1
Chloroethane	ND		1.0	0.32	ug/L			07/29/21 05:38	1
Chloroform	0.37	J	1.0	0.33	ug/L			07/29/21 05:38	1
Chloromethane	ND		1.0	0.43	ug/L			07/29/21 05:38	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 05:38	1
Bromodichloromethane	ND	UJ VSM 4/26/22	1.0	0.34	ug/L			07/29/21 05:38	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 05:38	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 05:38	1
Tetrachloroethene	2.2		1.0	0.25	ug/L			07/29/21 05:38	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 05:38	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 05:38	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 05:38	1
Trichloroethene	1.9		1.0	0.31	ug/L			07/29/21 05:38	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/29/21 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		60 - 140		07/29/21 05:38	1
4-Bromofluorobenzene	88		60 - 140		07/29/21 05:38	1
Toluene-d8 (Surr)	100		60 - 140		07/29/21 05:38	1
Dibromofluoromethane (Surr)	96		60 - 140		07/29/21 05:38	1

Client Sample ID: TripBlank2-072721

Lab Sample ID: 460-239698-6

Date Collected: 07/27/21 00:00

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 04:05	1
1,1,2,2-Tetrachloroethane	ND	UJ VSM 4/26/22	1.0	0.37	ug/L			07/29/21 04:05	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 04:05	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/29/21 04:05	1
1,1-Dichloroethene	ND	UJ VSM 4/26/22	1.0	0.12	ug/L			07/29/21 04:05	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 04:05	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/29/21 04:05	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/29/21 04:05	1
1,2-Dichloropropane	ND	UJ VSM 4/26/22	1.0	0.35	ug/L			07/29/21 04:05	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 04:05	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 04:05	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 04:05	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 04:05	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 04:05	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 04:05	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 04:05	1
Bromomethane	ND		1.0	0.45	ug/L			07/29/21 04:05	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 04:05	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 04:05	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 04:05	1

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Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: TripBlank2-072721

Lab Sample ID: 460-239698-6

Date Collected: 07/27/21 00:00

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0	0.32	ug/L			07/29/21 04:05	1
Chloroform	ND		1.0	0.33	ug/L			07/29/21 04:05	1
Chloromethane	ND		1.0	0.43	ug/L			07/29/21 04:05	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 04:05	1
Bromodichloromethane	ND	UJ	1.0	0.34	ug/L			07/29/21 04:05	1
Ethylbenzene	ND	VJP 4/26/22	1.0	0.30	ug/L			07/29/21 04:05	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 04:05	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/29/21 04:05	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 04:05	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 04:05	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 04:05	1
Trichloroethene	ND		1.0	0.31	ug/L			07/29/21 04:05	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/29/21 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		60 - 140		07/29/21 04:05	1
4-Bromofluorobenzene	88		60 - 140		07/29/21 04:05	1
Toluene-d8 (Surr)	101		60 - 140		07/29/21 04:05	1
Dibromofluoromethane (Surr)	95		60 - 140		07/29/21 04:05	1

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 22C1442

Date Received: 3/22/2022

Field Sample #: GW-4S-032122

Sampled: 3/21/2022 12:30

Sample ID: 22C1442-01

Sample Matrix: Ground Water

Sample Flags: PR-09

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1	UJ VJP 4/26/22	624.1	3/23/22	3/23/22 15:21	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1	UJ VJP 4/26/22	624.1	3/23/22	3/23/22 15:21	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1	UJ VJP 4/26/22	624.1	3/23/22	3/23/22 15:21	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1	UJ VJP 4/26/22	624.1	3/23/22	3/23/22 15:21	LBD
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Trichloroethylene	2.32	2.00	0.189	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/23/22	3/23/22 15:21	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	83.0	70-130								
Toluene-d8	89.9	70-130								
4-Bromofluorobenzene	92.8	70-130								

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 22C1442

Date Received: 3/22/2022

Field Sample #: GP-4D-032122

Sampled: 3/21/2022 13:10

Sample ID: 22C1442-02

Sample Matrix: Ground Water

Sample Flags: PR-09

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Bromodichloromethane	0.190	2.00	0.180	µg/L	1	J	624.1	3/23/22	3/23/22 15:48	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1	UJ	624.1	3/23/22	3/23/22 15:48	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1	VJPM 4/26/22	624.1	3/23/22	3/23/22 15:48	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Chloroform	1.07	2.00	0.168	µg/L	1	J	624.1	3/23/22	3/23/22 15:48	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1	UJ	624.1	3/23/22	3/23/22 15:48	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1	VJPM 4/26/22	624.1	3/23/22	3/23/22 15:48	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1	UJ	624.1	3/23/22	3/23/22 15:48	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1	VJPM 4/26/22	624.1	3/23/22	3/23/22 15:48	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1	UJ	624.1	3/23/22	3/23/22 15:48	LBD
Toluene	<0.224	1.00	0.224	µg/L	1	VJPM 4/26/22	624.1	3/23/22	3/23/22 15:48	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/23/22	3/23/22 15:48	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	81.8	70-130				3/23/22 15:48				
Toluene-d8	89.0	70-130				3/23/22 15:48				
4-Bromofluorobenzene	92.8	70-130				3/23/22 15:48				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 22C1442

Date Received: 3/22/2022

Field Sample #: DW-1-032122

Sampled: 3/21/2022 15:25

Sample ID: 22C1442-03

Sample Matrix: Ground Water

Sample Flags: PR-09

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1	UJ VSPM 4/26/22	624.1	3/23/22	3/23/22 16:14	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Chloroform	0.390	2.00	0.168	µg/L	1	J	624.1	3/23/22	3/23/22 16:14	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1	UJ VSPM 4/26/22	624.1	3/23/22	3/23/22 16:14	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1	UJ VSPM 4/26/22	624.1	3/23/22	3/23/22 16:14	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Tetrachloroethylene	2.29	2.00	0.187	µg/L	1	J VSPM 4/26/22	624.1	3/23/22	3/23/22 16:14	LBD
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Trichloroethylene	1.58	2.00	0.189	µg/L	1	J	624.1	3/23/22	3/23/22 16:14	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/23/22	3/23/22 16:14	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	83.0	70-130								
Toluene-d8	90.5	70-130								
4-Bromofluorobenzene	92.1	70-130								

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Project Location: NY

Sample Description:

Work Order: 22C1442

Date Received: 3/22/2022

Field Sample #: DUP-01-032122

Sampled: 3/21/2022 00:00

Sample ID: 22C1442-04

Sample Matrix: Ground Water

Sample Flags: PR-09

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1	UJ	624.1	3/23/22	3/23/22 16:40	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1	VJPM 4/26/22	624.1	3/23/22	3/23/22 16:40	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Chloroform	1.04	2.00	0.168	µg/L	1	J	624.1	3/23/22	3/23/22 16:40	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1	UJ	624.1	3/23/22	3/23/22 16:40	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1	VJPM 4/26/22	624.1	3/23/22	3/23/22 16:40	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1	UJ	624.1	3/23/22	3/23/22 16:40	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1	VJPM 4/26/22	624.1	3/23/22	3/23/22 16:40	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1	UJ	624.1	3/23/22	3/23/22 16:40	LBD
Toluene	<0.224	1.00	0.224	µg/L	1	VJPM 4/26/22	624.1	3/23/22	3/23/22 16:40	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/23/22	3/23/22 16:40	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	88.5	70-130	3/23/22 16:40
Toluene-d8	82.8	70-130	3/23/22 16:40
4-Bromofluorobenzene	90.7	70-130	3/23/22 16:40

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Project Location: NY

Sample Description:

Work Order: 22C1442

Date Received: 3/22/2022

Field Sample #: Trip Blank-01-032122

Sampled: 3/21/2022 00:00

Sample ID: 22C1442-05

Sample Matrix: Ground Water

Sample Flags: PR-08

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1	UJ VSM 4/26/22	624.1	3/23/22	3/23/22 14:55	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1	UJ VSM 4/26/22	624.1	3/23/22	3/23/22 14:55	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1	UJ VSM 4/26/22	624.1	3/23/22	3/23/22 14:55	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Methylene Chloride	0.640	5.00	0.235	µg/L	1	J	624.1	3/23/22	3/23/22 14:55	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Toluene	<0.224	1.00	0.224	µg/L	1	UJ VSM 4/26/22	624.1	3/23/22	3/23/22 14:55	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/23/22	3/23/22 14:55	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	85.9	70-130				3/23/22 14:55				
Toluene-d8	88.7	70-130				3/23/22 14:55				
4-Bromofluorobenzene	92.5	70-130				3/23/22 14:55				

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Project Location: NY

Sample Description:

Work Order: 22C1516

Date Received: 3/23/2022

Field Sample #: MW-3-032222

Sampled: 3/22/2022 09:00

Sample ID: 22C1516-01

Sample Matrix: Water

Sample Flags: PR-08

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1	UJ VJM 4/26/22	624.1	3/24/22	3/24/22 15:51	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1	UJ VJM 4/26/22	624.1	3/24/22	3/24/22 15:51	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/24/22	3/24/22 15:51	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	88.0		70-130				3/24/22 15:51			
Toluene-d8	90.2		70-130				3/24/22 15:51			
4-Bromofluorobenzene	92.8		70-130				3/24/22 15:51			

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Project Location: NY

Sample Description:

Work Order: 22C1516

Date Received: 3/23/2022

Field Sample #: RW-8S-032222

Sampled: 3/22/2022 09:15

Sample ID: 22C1516-02

Sample Matrix: Water

Sample Flags: PR-09

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1	UJ VJ 4/26/22	624.1	3/24/22	3/24/22 16:17	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1	UJ VJ 4/26/22	624.1	3/24/22	3/24/22 16:17	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Tetrachloroethylene	0.800	2.00	0.187	µg/L	1	J	624.1	3/24/22	3/24/22 16:17	LBD
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Trichloroethylene	8.31	2.00	0.189	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Vinyl Chloride	0.670	2.00	0.208	µg/L	1	J	624.1	3/24/22	3/24/22 16:17	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/24/22	3/24/22 16:17	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	88.0	70-130				3/24/22 16:17				
Toluene-d8	89.3	70-130				3/24/22 16:17				
4-Bromofluorobenzene	91.2	70-130				3/24/22 16:17				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 22C1516

Date Received: 3/23/2022

Field Sample #: RW-1S-032222

Sampled: 3/22/2022 13:35

Sample ID: 22C1516-03

Sample Matrix: Water

Sample Flags: PR-09

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1	UJ VJM 4/26/22	624.1	3/24/22	3/24/22 16:43	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1	UJ VJM 4/26/22	624.1	3/24/22	3/24/22 16:43	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Tetrachloroethylene	0.960	2.00	0.187	µg/L	1	J	624.1	3/24/22	3/24/22 16:43	LBD
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Trichloroethylene	3.67	2.00	0.189	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/24/22	3/24/22 16:43	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	83.6		70-130				3/24/22 16:43			
Toluene-d8	88.4		70-130				3/24/22 16:43			
4-Bromofluorobenzene	90.1		70-130				3/24/22 16:43			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 22C1516

Date Received: 3/23/2022

Field Sample #: MW-18-032222

Sampled: 3/22/2022 13:35

Sample ID: 22C1516-04

Sample Matrix: Water

Sample Flags: PR-09

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1	UJ VJP 4/26/22	624.1	3/24/22	3/24/22 17:10	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1	UJ VJP 4/26/22	624.1	3/24/22	3/24/22 17:10	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Trichloroethylene	0.620	2.00	0.189	µg/L	1	J	624.1	3/24/22	3/24/22 17:10	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
Vinyl Chloride	0.260	2.00	0.208	µg/L	1	J	624.1	3/24/22	3/24/22 17:10	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/24/22	3/24/22 17:10	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	87.3	70-130	3/24/22 17:10
Toluene-d8	96.1	70-130	3/24/22 17:10
4-Bromofluorobenzene	91.3	70-130	3/24/22 17:10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: NY

Sample Description:

Work Order: 22C1516

Date Received: 3/23/2022

Field Sample #: Trip Blank-02-032222

Sampled: 3/22/2022 00:00

Sample ID: 22C1516-05

Sample Matrix: Water

Sample Flags: PR-08

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1	UJ VJ 4/26/22	624.1	3/24/22	3/24/22 12:20	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1	UJ VJ 4/26/22	624.1	3/24/22	3/24/22 12:20	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Methylene Chloride	0.690	5.00	0.235	µg/L	1	J	624.1	3/24/22	3/24/22 12:20	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Tetrachloroethylene	<0.187	2.00	0.187	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Trichloroethylene	<0.189	2.00	0.189	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/24/22	3/24/22 12:20	LBD
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
1,2-Dichloroethane-d4	88.1		70-130				3/24/22 12:20			
Toluene-d8	90.2		70-130				3/24/22 12:20			
4-Bromofluorobenzene	91.8		70-130				3/24/22 12:20			

APPENDIX D-1
SUMMARY OF LABORATORY ANALYTICAL RESULTS IN MONTHLY
SAMPLES COLLECTED AT RW-3D

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Client Sample ID: RW-3D

Lab Sample ID: 480-182791-1

Date Collected: 04/02/21 11:00

Matrix: Water

Date Received: 04/03/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	0.77	ug/L			04/05/21 14:40	2
1,1,2,2-Tetrachloroethane	ND		10	0.52	ug/L			04/05/21 14:40	2
1,1,2-Trichloroethane	ND		10	0.96	ug/L			04/05/21 14:40	2
1,1-Dichloroethane	ND		10	1.2	ug/L			04/05/21 14:40	2
1,1-Dichloroethene	ND		10	1.7	ug/L			04/05/21 14:40	2
1,2-Dichlorobenzene	ND		10	0.89	ug/L			04/05/21 14:40	2
1,2-Dichloroethane	ND		10	1.2	ug/L			04/05/21 14:40	2
1,2-Dichloroethene, Total	44		20	6.4	ug/L			04/05/21 14:40	2
1,2-Dichloropropane	ND		10	1.2	ug/L			04/05/21 14:40	2
1,3-Dichlorobenzene	ND		10	1.1	ug/L			04/05/21 14:40	2
1,4-Dichlorobenzene	ND		10	1.0	ug/L			04/05/21 14:40	2
2-Chloroethyl vinyl ether	ND		50	3.7	ug/L			04/05/21 14:40	2
Acrolein	ND		200	35	ug/L			04/05/21 14:40	2
Acrylonitrile	ND		100	3.8	ug/L			04/05/21 14:40	2
Benzene	ND		10	1.2	ug/L			04/05/21 14:40	2
Bromodichloromethane	ND		10	1.1	ug/L			04/05/21 14:40	2
Bromoform	ND		10	0.94	ug/L			04/05/21 14:40	2
Bromomethane	ND		10	2.4	ug/L			04/05/21 14:40	2
Carbon tetrachloride	ND		10	1.0	ug/L			04/05/21 14:40	2
Chlorobenzene	ND		10	0.95	ug/L			04/05/21 14:40	2
Chlorodibromomethane	ND		10	0.83	ug/L			04/05/21 14:40	2
Chloroethane	ND		10	1.7	ug/L			04/05/21 14:40	2
Chloroform	ND		10	1.1	ug/L			04/05/21 14:40	2
Chloromethane	ND		10	1.3	ug/L			04/05/21 14:40	2
cis-1,3-Dichloropropene	ND		10	0.66	ug/L			04/05/21 14:40	2
Ethylbenzene	ND		10	0.93	ug/L			04/05/21 14:40	2
Methylene Chloride	ND		10	1.6	ug/L			04/05/21 14:40	2
Tetrachloroethene	97		10	0.68	ug/L			04/05/21 14:40	2
Toluene	ND		10	0.91	ug/L			04/05/21 14:40	2
trans-1,2-Dichloroethene	ND		10	1.2	ug/L			04/05/21 14:40	2
trans-1,3-Dichloropropene	ND		10	0.88	ug/L			04/05/21 14:40	2
Trichloroethene	86		10	1.2	ug/L			04/05/21 14:40	2
Vinyl chloride	ND		10	1.5	ug/L			04/05/21 14:40	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 130		04/05/21 14:40	2
4-Bromofluorobenzene (Surr)	101		76 - 123		04/05/21 14:40	2
Dibromofluoromethane (Surr)	106		75 - 123		04/05/21 14:40	2
Toluene-d8 (Surr)	101		77 - 120		04/05/21 14:40	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	617		10.0	4.0	mg/L			04/07/21 03:59	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.45	HF	0.100	0.100	SU			04/05/21 15:55	1
Temperature	21.0	HF	0.00100	0.00100	Degrees C			04/05/21 15:55	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Client Sample ID: EFFLUENT

Lab Sample ID: 480-182791-2

Date Collected: 04/02/21 11:10

Matrix: Water

Date Received: 04/03/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			04/05/21 12:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			04/05/21 12:24	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			04/05/21 12:24	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			04/05/21 12:24	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			04/05/21 12:24	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			04/05/21 12:24	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			04/05/21 12:24	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			04/05/21 12:24	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			04/05/21 12:24	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			04/05/21 12:24	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			04/05/21 12:24	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			04/05/21 12:24	1
Acrolein	ND		100	17	ug/L			04/05/21 12:24	1
Acrylonitrile	ND		50	1.9	ug/L			04/05/21 12:24	1
Benzene	ND		5.0	0.60	ug/L			04/05/21 12:24	1
Bromodichloromethane	ND		5.0	0.54	ug/L			04/05/21 12:24	1
Bromoform	ND		5.0	0.47	ug/L			04/05/21 12:24	1
Bromomethane	ND		5.0	1.2	ug/L			04/05/21 12:24	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			04/05/21 12:24	1
Chlorobenzene	ND		5.0	0.48	ug/L			04/05/21 12:24	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			04/05/21 12:24	1
Chloroethane	ND		5.0	0.87	ug/L			04/05/21 12:24	1
Chloroform	ND		5.0	0.54	ug/L			04/05/21 12:24	1
Chloromethane	ND		5.0	0.64	ug/L			04/05/21 12:24	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			04/05/21 12:24	1
Ethylbenzene	ND		5.0	0.46	ug/L			04/05/21 12:24	1
Methylene Chloride	ND		5.0	0.81	ug/L			04/05/21 12:24	1
Tetrachloroethene	ND		5.0	0.34	ug/L			04/05/21 12:24	1
Toluene	ND		5.0	0.45	ug/L			04/05/21 12:24	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			04/05/21 12:24	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			04/05/21 12:24	1
Trichloroethene	ND		5.0	0.60	ug/L			04/05/21 12:24	1
Vinyl chloride	ND		5.0	0.75	ug/L			04/05/21 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 130		04/05/21 12:24	1
4-Bromofluorobenzene (Surr)	100		76 - 123		04/05/21 12:24	1
Dibromofluoromethane (Surr)	104		75 - 123		04/05/21 12:24	1
Toluene-d8 (Surr)	99		77 - 120		04/05/21 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	637		10.0	4.0	mg/L			04/07/21 03:59	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86	HF	0.100	0.100	SU			04/05/21 16:01	1
Temperature	21.3	HF	0.00100	0.00100	Degrees C			04/05/21 16:01	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Client Sample ID: RW-3D

Lab Sample ID: 480-184114-1

Date Collected: 05/03/21 10:15

Matrix: Water

Date Received: 05/04/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			05/06/21 00:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			05/06/21 00:09	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			05/06/21 00:09	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			05/06/21 00:09	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			05/06/21 00:09	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/06/21 00:09	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			05/06/21 00:09	1
1,2-Dichloroethene, Total	74		2.0	0.44	ug/L			05/06/21 00:09	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			05/06/21 00:09	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			05/06/21 00:09	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			05/06/21 00:09	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			05/06/21 00:09	1
Acrolein	ND		4.0	1.1	ug/L			05/06/21 00:09	1
Acrylonitrile	ND		2.0	0.77	ug/L			05/06/21 00:09	1
Benzene	ND		1.0	0.43	ug/L			05/06/21 00:09	1
Bromoform	ND		1.0	0.54	ug/L			05/06/21 00:09	1
Bromomethane	ND		1.0	0.45	ug/L			05/06/21 00:09	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			05/06/21 00:09	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/06/21 00:09	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			05/06/21 00:09	1
Chloroethane	ND		1.0	0.32	ug/L			05/06/21 00:09	1
Chloroform	0.51	J	1.0	0.33	ug/L			05/06/21 00:09	1
Chloromethane	ND		1.0	0.43	ug/L			05/06/21 00:09	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			05/06/21 00:09	1
Bromodichloromethane	ND		1.0	0.34	ug/L			05/06/21 00:09	1
Ethylbenzene	ND		1.0	0.30	ug/L			05/06/21 00:09	1
Methylene Chloride	0.49	J	1.0	0.32	ug/L			05/06/21 00:09	1
Tetrachloroethene	120		1.0	0.25	ug/L			05/06/21 00:09	1
Toluene	ND		1.0	0.38	ug/L			05/06/21 00:09	1
trans-1,2-Dichloroethene	0.32	J	1.0	0.24	ug/L			05/06/21 00:09	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			05/06/21 00:09	1
Trichloroethene	140		1.0	0.31	ug/L			05/06/21 00:09	1
Vinyl chloride	ND		1.0	0.34	ug/L			05/06/21 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		60 - 140		05/06/21 00:09	1
4-Bromofluorobenzene	70		60 - 140		05/06/21 00:09	1
Toluene-d8 (Surr)	52	S1-	60 - 140		05/06/21 00:09	1
Dibromofluoromethane (Surr)	80		60 - 140		05/06/21 00:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	624		10.0	4.0	mg/L			05/07/21 11:27	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.11	HF	0.100	0.100	SU			05/17/21 18:47	1
Temperature	19.5	HF	0.00100	0.00100	Degrees C			05/17/21 18:47	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Client Sample ID: EFFLUENT

Lab Sample ID: 480-184114-2

Date Collected: 05/03/21 10:20

Matrix: Water

Date Received: 05/04/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			05/06/21 10:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			05/06/21 10:04	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			05/06/21 10:04	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			05/06/21 10:04	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			05/06/21 10:04	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/06/21 10:04	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			05/06/21 10:04	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			05/06/21 10:04	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			05/06/21 10:04	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			05/06/21 10:04	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			05/06/21 10:04	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			05/06/21 10:04	1
Acrolein	ND		4.0	1.1	ug/L			05/06/21 10:04	1
Acrylonitrile	ND		2.0	0.77	ug/L			05/06/21 10:04	1
Benzene	ND		1.0	0.43	ug/L			05/06/21 10:04	1
Bromoform	ND		1.0	0.54	ug/L			05/06/21 10:04	1
Bromomethane	ND		1.0	0.45	ug/L			05/06/21 10:04	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			05/06/21 10:04	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/06/21 10:04	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			05/06/21 10:04	1
Chloroethane	ND		1.0	0.32	ug/L			05/06/21 10:04	1
Chloroform	ND		1.0	0.33	ug/L			05/06/21 10:04	1
Chloromethane	ND		1.0	0.43	ug/L			05/06/21 10:04	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			05/06/21 10:04	1
Bromodichloromethane	ND		1.0	0.34	ug/L			05/06/21 10:04	1
Ethylbenzene	ND		1.0	0.30	ug/L			05/06/21 10:04	1
Methylene Chloride	0.45 J		1.0	0.32	ug/L			05/06/21 10:04	1
Tetrachloroethene	ND		1.0	0.25	ug/L			05/06/21 10:04	1
Toluene	ND		1.0	0.38	ug/L			05/06/21 10:04	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			05/06/21 10:04	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			05/06/21 10:04	1
Trichloroethene	ND		1.0	0.31	ug/L			05/06/21 10:04	1
Vinyl chloride	ND		1.0	0.34	ug/L			05/06/21 10:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		60 - 140		05/06/21 10:04	1
4-Bromofluorobenzene	88		60 - 140		05/06/21 10:04	1
Toluene-d8 (Surr)	88		60 - 140		05/06/21 10:04	1
Dibromofluoromethane (Surr)	95		60 - 140		05/06/21 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	654		10.0	4.0	mg/L			05/07/21 11:27	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77	HF	0.100	0.100	SU			05/17/21 18:50	1
Temperature	20.5	HF	0.00100	0.00100	Degrees C			05/17/21 18:50	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Client Sample ID: RW-3D

Lab Sample ID: 480-185715-1

Date Collected: 06/07/21 10:15

Matrix: Water

Date Received: 06/08/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/10/21 13:34	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/10/21 13:34	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			06/10/21 13:34	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/10/21 13:34	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/10/21 13:34	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			06/10/21 13:34	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			06/10/21 13:34	1
1,2-Dichloroethene, Total	30		2.0	0.44	ug/L			06/10/21 13:34	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/10/21 13:34	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			06/10/21 13:34	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			06/10/21 13:34	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			06/10/21 13:34	1
Acrolein	ND		4.0	1.1	ug/L			06/10/21 13:34	1
Acrylonitrile	ND		2.0	0.77	ug/L			06/10/21 13:34	1
Benzene	ND		1.0	0.43	ug/L			06/10/21 13:34	1
Bromoform	ND		1.0	0.54	ug/L			06/10/21 13:34	1
Bromomethane	ND		1.0	0.45	ug/L			06/10/21 13:34	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/10/21 13:34	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/10/21 13:34	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			06/10/21 13:34	1
Chloroethane	ND		1.0	0.32	ug/L			06/10/21 13:34	1
Chloroform	0.69 J		1.0	0.33	ug/L			06/10/21 13:34	1
Chloromethane	ND		1.0	0.43	ug/L			06/10/21 13:34	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/10/21 13:34	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/10/21 13:34	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/10/21 13:34	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/10/21 13:34	1
Tetrachloroethene	46		1.0	0.25	ug/L			06/10/21 13:34	1
Toluene	ND		1.0	0.38	ug/L			06/10/21 13:34	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/10/21 13:34	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			06/10/21 13:34	1
Trichloroethene	64		1.0	0.31	ug/L			06/10/21 13:34	1
Vinyl chloride	ND		1.0	0.34	ug/L			06/10/21 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		60 - 140		06/10/21 13:34	1
4-Bromofluorobenzene	90		60 - 140		06/10/21 13:34	1
Toluene-d8 (Surr)	109		60 - 140		06/10/21 13:34	1
Dibromofluoromethane (Surr)	121		60 - 140		06/10/21 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	695		10.0	4.0	mg/L			06/09/21 13:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.94	HF	0.100	0.100	SU			06/10/21 10:01	1
Temperature	20.6	HF	0.00100	0.00100	Degrees C			06/10/21 10:01	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Client Sample ID: Effluent

Lab Sample ID: 480-185715-2

Date Collected: 06/07/21 10:20

Matrix: Water

Date Received: 06/08/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/10/21 13:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/10/21 13:09	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			06/10/21 13:09	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/10/21 13:09	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/10/21 13:09	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			06/10/21 13:09	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			06/10/21 13:09	1
1,2-Dichloroethene, Total	1.2	J	2.0	0.44	ug/L			06/10/21 13:09	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/10/21 13:09	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			06/10/21 13:09	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			06/10/21 13:09	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			06/10/21 13:09	1
Acrolein	ND		4.0	1.1	ug/L			06/10/21 13:09	1
Acrylonitrile	ND		2.0	0.77	ug/L			06/10/21 13:09	1
Benzene	ND		1.0	0.43	ug/L			06/10/21 13:09	1
Bromoform	ND		1.0	0.54	ug/L			06/10/21 13:09	1
Bromomethane	ND		1.0	0.45	ug/L			06/10/21 13:09	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/10/21 13:09	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/10/21 13:09	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			06/10/21 13:09	1
Chloroethane	ND		1.0	0.32	ug/L			06/10/21 13:09	1
Chloroform	ND		1.0	0.33	ug/L			06/10/21 13:09	1
Chloromethane	ND		1.0	0.43	ug/L			06/10/21 13:09	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/10/21 13:09	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/10/21 13:09	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/10/21 13:09	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/10/21 13:09	1
Tetrachloroethene	0.57	J	1.0	0.25	ug/L			06/10/21 13:09	1
Toluene	ND		1.0	0.38	ug/L			06/10/21 13:09	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/10/21 13:09	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			06/10/21 13:09	1
Trichloroethene	1.2		1.0	0.31	ug/L			06/10/21 13:09	1
Vinyl chloride	ND		1.0	0.34	ug/L			06/10/21 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		60 - 140		06/10/21 13:09	1
4-Bromofluorobenzene	84		60 - 140		06/10/21 13:09	1
Toluene-d8 (Surr)	104		60 - 140		06/10/21 13:09	1
Dibromofluoromethane (Surr)	117		60 - 140		06/10/21 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	689		10.0	4.0	mg/L			06/09/21 13:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.72	HF	0.100	0.100	SU			06/10/21 10:04	1
Temperature	21.0	HF	0.00100	0.00100	Degrees C			06/10/21 10:04	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-186961-1

Client Sample ID: RW-3D

Lab Sample ID: 480-186961-1

Date Collected: 07/08/21 11:00

Matrix: Water

Date Received: 07/09/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/21 14:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/21 14:58	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/10/21 14:58	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/21 14:58	1
1,1-Dichloroethene	0.48	J	1.0	0.12	ug/L			07/10/21 14:58	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/10/21 14:58	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/10/21 14:58	1
1,2-Dichloroethene, Total	62		2.0	0.44	ug/L			07/10/21 14:58	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/21 14:58	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/10/21 14:58	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/10/21 14:58	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/10/21 14:58	1
Acrolein	ND		4.0	1.1	ug/L			07/10/21 14:58	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/10/21 14:58	1
Benzene	ND		1.0	0.43	ug/L			07/10/21 14:58	1
Bromoform	ND		1.0	0.54	ug/L			07/10/21 14:58	1
Bromomethane	ND		1.0	0.45	ug/L			07/10/21 14:58	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/21 14:58	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/21 14:58	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/10/21 14:58	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/21 14:58	1
Chloroform	ND		1.0	0.33	ug/L			07/10/21 14:58	1
Chloromethane	ND		1.0	0.43	ug/L			07/10/21 14:58	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/21 14:58	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/21 14:58	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/21 14:58	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/21 14:58	1
Tetrachloroethene	160		1.0	0.25	ug/L			07/10/21 14:58	1
Toluene	ND		1.0	0.38	ug/L			07/10/21 14:58	1
trans-1,2-Dichloroethene	0.31	J	1.0	0.24	ug/L			07/10/21 14:58	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/10/21 14:58	1
Trichloroethene	140		1.0	0.31	ug/L			07/10/21 14:58	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/10/21 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		60 - 140		07/10/21 14:58	1
4-Bromofluorobenzene	103		60 - 140		07/10/21 14:58	1
Toluene-d8 (Surr)	104		60 - 140		07/10/21 14:58	1
Dibromofluoromethane (Surr)	104		60 - 140		07/10/21 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	661		10.0	4.0	mg/L			07/09/21 16:06	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.41	HF	0.100	0.100	SU			07/09/21 13:09	1
Temperature	20.2	HF	0.00100	0.00100	Degrees C			07/09/21 13:09	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-186961-1

Client Sample ID: Effluent

Lab Sample ID: 480-186961-2

Date Collected: 07/08/21 11:10

Matrix: Water

Date Received: 07/09/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/21 14:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/21 14:35	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/10/21 14:35	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/21 14:35	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/21 14:35	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/10/21 14:35	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/10/21 14:35	1
1,2-Dichloroethene, Total	0.49	J	2.0	0.44	ug/L			07/10/21 14:35	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/21 14:35	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/10/21 14:35	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/10/21 14:35	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/10/21 14:35	1
Acrolein	ND		4.0	1.1	ug/L			07/10/21 14:35	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/10/21 14:35	1
Benzene	ND		1.0	0.43	ug/L			07/10/21 14:35	1
Bromoform	ND		1.0	0.54	ug/L			07/10/21 14:35	1
Bromomethane	ND		1.0	0.45	ug/L			07/10/21 14:35	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/21 14:35	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/21 14:35	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/10/21 14:35	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/21 14:35	1
Chloroform	ND		1.0	0.33	ug/L			07/10/21 14:35	1
Chloromethane	ND		1.0	0.43	ug/L			07/10/21 14:35	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/21 14:35	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/21 14:35	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/21 14:35	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/21 14:35	1
Tetrachloroethene	0.27	J	1.0	0.25	ug/L			07/10/21 14:35	1
Toluene	ND		1.0	0.38	ug/L			07/10/21 14:35	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/21 14:35	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/10/21 14:35	1
Trichloroethene	0.38	J	1.0	0.31	ug/L			07/10/21 14:35	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/10/21 14:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		60 - 140		07/10/21 14:35	1
4-Bromofluorobenzene	99		60 - 140		07/10/21 14:35	1
Toluene-d8 (Surr)	98		60 - 140		07/10/21 14:35	1
Dibromofluoromethane (Surr)	100		60 - 140		07/10/21 14:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	649		10.0	4.0	mg/L			07/09/21 16:06	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.08	HF	0.100	0.100	SU			07/09/21 13:12	1
Temperature	20.3	HF	0.00100	0.00100	Degrees C			07/09/21 13:12	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-186961-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-186961-3

Date Collected: 07/08/21 00:00

Matrix: Water

Date Received: 07/09/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/21 13:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/21 13:27	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/10/21 13:27	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/21 13:27	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/21 13:27	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/10/21 13:27	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/10/21 13:27	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/10/21 13:27	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/21 13:27	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/10/21 13:27	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/10/21 13:27	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/10/21 13:27	1
Acrolein	ND		4.0	1.1	ug/L			07/10/21 13:27	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/10/21 13:27	1
Benzene	ND		1.0	0.43	ug/L			07/10/21 13:27	1
Bromoform	ND		1.0	0.54	ug/L			07/10/21 13:27	1
Bromomethane	ND		1.0	0.45	ug/L			07/10/21 13:27	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/21 13:27	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/21 13:27	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/10/21 13:27	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/21 13:27	1
Chloroform	ND		1.0	0.33	ug/L			07/10/21 13:27	1
Chloromethane	ND		1.0	0.43	ug/L			07/10/21 13:27	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/21 13:27	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/21 13:27	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/21 13:27	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/21 13:27	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/21 13:27	1
Toluene	ND		1.0	0.38	ug/L			07/10/21 13:27	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/21 13:27	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/10/21 13:27	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/21 13:27	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/10/21 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		60 - 140		07/10/21 13:27	1
4-Bromofluorobenzene	97		60 - 140		07/10/21 13:27	1
Toluene-d8 (Surr)	99		60 - 140		07/10/21 13:27	1
Dibromofluoromethane (Surr)	100		60 - 140		07/10/21 13:27	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Client Sample ID: RW-3D

Lab Sample ID: 480-187974-1

Date Collected: 08/04/21 10:40

Matrix: Water

Date Received: 08/05/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*+	1.0	0.24	ug/L			08/06/21 14:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/06/21 14:20	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			08/06/21 14:20	1
1,1-Dichloroethane	ND	*+	1.0	0.26	ug/L			08/06/21 14:20	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/06/21 14:20	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			08/06/21 14:20	1
1,2-Dichloroethane	ND	*+	1.0	0.84	ug/L			08/06/21 14:20	1
1,2-Dichloroethene, Total	24		2.0	0.44	ug/L			08/06/21 14:20	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/06/21 14:20	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			08/06/21 14:20	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			08/06/21 14:20	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			08/06/21 14:20	1
Acrolein	ND		4.0	1.1	ug/L			08/06/21 14:20	1
Acrylonitrile	ND		2.0	0.77	ug/L			08/06/21 14:20	1
Benzene	ND		1.0	0.43	ug/L			08/06/21 14:20	1
Bromoform	ND		1.0	0.54	ug/L			08/06/21 14:20	1
Bromomethane	ND		1.0	0.45	ug/L			08/06/21 14:20	1
Carbon tetrachloride	ND	*+	1.0	0.21	ug/L			08/06/21 14:20	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/06/21 14:20	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			08/06/21 14:20	1
Chloroethane	ND		1.0	0.32	ug/L			08/06/21 14:20	1
Chloroform	0.73	J	1.0	0.33	ug/L			08/06/21 14:20	1
Chloromethane	ND		1.0	0.43	ug/L			08/06/21 14:20	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/06/21 14:20	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/06/21 14:20	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/06/21 14:20	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/06/21 14:20	1
Tetrachloroethene	56		1.0	0.25	ug/L			08/06/21 14:20	1
Toluene	ND		1.0	0.38	ug/L			08/06/21 14:20	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/06/21 14:20	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			08/06/21 14:20	1
Trichloroethene	58		1.0	0.31	ug/L			08/06/21 14:20	1
Vinyl chloride	ND		1.0	0.34	ug/L			08/06/21 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	146	S1+	60 - 140		08/06/21 14:20	1
4-Bromofluorobenzene	105		60 - 140		08/06/21 14:20	1
Toluene-d8 (Surr)	101		60 - 140		08/06/21 14:20	1
Dibromofluoromethane (Surr)	128		60 - 140		08/06/21 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	624		10.0	4.0	mg/L			08/10/21 10:39	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.46	HF	0.100	0.100	SU			08/06/21 13:36	1
Temperature	20.7	HF	0.00100	0.00100	Degrees C			08/06/21 13:36	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Client Sample ID: Effluent

Lab Sample ID: 480-187974-2

Date Collected: 08/04/21 10:30

Matrix: Water

Date Received: 08/05/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*+	1.0	0.24	ug/L			08/06/21 13:57	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/06/21 13:57	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			08/06/21 13:57	1
1,1-Dichloroethane	ND	*+	1.0	0.26	ug/L			08/06/21 13:57	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/06/21 13:57	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			08/06/21 13:57	1
1,2-Dichloroethane	ND	*+	1.0	0.84	ug/L			08/06/21 13:57	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			08/06/21 13:57	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/06/21 13:57	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			08/06/21 13:57	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			08/06/21 13:57	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			08/06/21 13:57	1
Acrolein	ND		4.0	1.1	ug/L			08/06/21 13:57	1
Acrylonitrile	ND		2.0	0.77	ug/L			08/06/21 13:57	1
Benzene	ND		1.0	0.43	ug/L			08/06/21 13:57	1
Bromoform	ND		1.0	0.54	ug/L			08/06/21 13:57	1
Bromomethane	ND		1.0	0.45	ug/L			08/06/21 13:57	1
Carbon tetrachloride	ND	*+	1.0	0.21	ug/L			08/06/21 13:57	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/06/21 13:57	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			08/06/21 13:57	1
Chloroethane	ND		1.0	0.32	ug/L			08/06/21 13:57	1
Chloroform	ND		1.0	0.33	ug/L			08/06/21 13:57	1
Chloromethane	ND		1.0	0.43	ug/L			08/06/21 13:57	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/06/21 13:57	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/06/21 13:57	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/06/21 13:57	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/06/21 13:57	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/06/21 13:57	1
Toluene	ND		1.0	0.38	ug/L			08/06/21 13:57	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/06/21 13:57	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			08/06/21 13:57	1
Trichloroethene	ND		1.0	0.31	ug/L			08/06/21 13:57	1
Vinyl chloride	ND		1.0	0.34	ug/L			08/06/21 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	144	S1+	60 - 140		08/06/21 13:57	1
4-Bromofluorobenzene	103		60 - 140		08/06/21 13:57	1
Toluene-d8 (Surr)	101		60 - 140		08/06/21 13:57	1
Dibromofluoromethane (Surr)	127		60 - 140		08/06/21 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	641		10.0	4.0	mg/L			08/10/21 10:39	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22	HF	0.100	0.100	SU			08/06/21 13:34	1
Temperature	20.9	HF	0.00100	0.00100	Degrees C			08/06/21 13:34	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Client Sample ID: RW-3D

Lab Sample ID: 480-190023-1

Date Collected: 09/22/21 11:35

Matrix: Water

Date Received: 09/24/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/24/21 14:40	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/24/21 14:40	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/24/21 14:40	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/24/21 14:40	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/24/21 14:40	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/24/21 14:40	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/24/21 14:40	1
1,2-Dichloroethene, Total	36		10	3.2	ug/L			09/24/21 14:40	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/24/21 14:40	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/24/21 14:40	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/24/21 14:40	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/24/21 14:40	1
Acrolein	ND		100	17	ug/L			09/24/21 14:40	1
Acrylonitrile	ND		50	1.9	ug/L			09/24/21 14:40	1
Benzene	ND		5.0	0.60	ug/L			09/24/21 14:40	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/24/21 14:40	1
Bromoform	ND		5.0	0.47	ug/L			09/24/21 14:40	1
Bromomethane	ND		5.0	1.2	ug/L			09/24/21 14:40	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/24/21 14:40	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/24/21 14:40	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			09/24/21 14:40	1
Chloroethane	ND		5.0	0.87	ug/L			09/24/21 14:40	1
Chloroform	ND		5.0	0.54	ug/L			09/24/21 14:40	1
Chloromethane	ND		5.0	0.64	ug/L			09/24/21 14:40	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/24/21 14:40	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/24/21 14:40	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/24/21 14:40	1
Tetrachloroethene	79		5.0	0.34	ug/L			09/24/21 14:40	1
Toluene	ND		5.0	0.45	ug/L			09/24/21 14:40	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			09/24/21 14:40	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/24/21 14:40	1
Trichloroethene	72		5.0	0.60	ug/L			09/24/21 14:40	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/24/21 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 130		09/24/21 14:40	1
4-Bromofluorobenzene (Surr)	97		76 - 123		09/24/21 14:40	1
Dibromofluoromethane (Surr)	102		75 - 123		09/24/21 14:40	1
Toluene-d8 (Surr)	100		77 - 120		09/24/21 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	631		10.0	4.0	mg/L			09/24/21 15:00	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.33	HF	0.100	0.100	SU			09/28/21 15:18	1
Temperature	18.8	HF	0.00100	0.00100	Degrees C			09/28/21 15:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Client Sample ID: Effluent

Lab Sample ID: 480-190023-2

Date Collected: 09/22/21 11:30

Matrix: Water

Date Received: 09/24/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/24/21 15:03	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/24/21 15:03	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/24/21 15:03	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/24/21 15:03	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/24/21 15:03	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/24/21 15:03	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/24/21 15:03	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/24/21 15:03	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/24/21 15:03	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/24/21 15:03	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/24/21 15:03	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/24/21 15:03	1
Acrolein	ND		100	17	ug/L			09/24/21 15:03	1
Acrylonitrile	ND		50	1.9	ug/L			09/24/21 15:03	1
Benzene	ND		5.0	0.60	ug/L			09/24/21 15:03	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/24/21 15:03	1
Bromoform	ND		5.0	0.47	ug/L			09/24/21 15:03	1
Bromomethane	ND		5.0	1.2	ug/L			09/24/21 15:03	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/24/21 15:03	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/24/21 15:03	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			09/24/21 15:03	1
Chloroethane	ND		5.0	0.87	ug/L			09/24/21 15:03	1
Chloroform	ND		5.0	0.54	ug/L			09/24/21 15:03	1
Chloromethane	ND		5.0	0.64	ug/L			09/24/21 15:03	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/24/21 15:03	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/24/21 15:03	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/24/21 15:03	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/24/21 15:03	1
Toluene	ND		5.0	0.45	ug/L			09/24/21 15:03	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			09/24/21 15:03	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/24/21 15:03	1
Trichloroethene	ND		5.0	0.60	ug/L			09/24/21 15:03	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/24/21 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		68 - 130		09/24/21 15:03	1
4-Bromofluorobenzene (Surr)	99		76 - 123		09/24/21 15:03	1
Dibromofluoromethane (Surr)	96		75 - 123		09/24/21 15:03	1
Toluene-d8 (Surr)	100		77 - 120		09/24/21 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	656		10.0	4.0	mg/L			09/24/21 15:00	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28	HF	0.100	0.100	SU			09/28/21 15:19	1
Temperature	19.2	HF	0.00100	0.00100	Degrees C			09/28/21 15:19	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Client Sample ID: TB

Lab Sample ID: 480-190023-3

Date Collected: 09/22/21 00:00

Matrix: Water

Date Received: 09/24/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/24/21 15:26	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/24/21 15:26	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/24/21 15:26	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/24/21 15:26	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/24/21 15:26	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/24/21 15:26	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/24/21 15:26	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/24/21 15:26	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/24/21 15:26	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/24/21 15:26	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/24/21 15:26	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/24/21 15:26	1
Acrolein	ND		100	17	ug/L			09/24/21 15:26	1
Acrylonitrile	ND		50	1.9	ug/L			09/24/21 15:26	1
Benzene	ND		5.0	0.60	ug/L			09/24/21 15:26	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/24/21 15:26	1
Bromoform	ND		5.0	0.47	ug/L			09/24/21 15:26	1
Bromomethane	ND		5.0	1.2	ug/L			09/24/21 15:26	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/24/21 15:26	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/24/21 15:26	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			09/24/21 15:26	1
Chloroethane	ND		5.0	0.87	ug/L			09/24/21 15:26	1
Chloroform	ND		5.0	0.54	ug/L			09/24/21 15:26	1
Chloromethane	ND		5.0	0.64	ug/L			09/24/21 15:26	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/24/21 15:26	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/24/21 15:26	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/24/21 15:26	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/24/21 15:26	1
Toluene	ND		5.0	0.45	ug/L			09/24/21 15:26	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			09/24/21 15:26	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/24/21 15:26	1
Trichloroethene	ND		5.0	0.60	ug/L			09/24/21 15:26	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/24/21 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 130		09/24/21 15:26	1
4-Bromofluorobenzene (Surr)	98		76 - 123		09/24/21 15:26	1
Dibromofluoromethane (Surr)	99		75 - 123		09/24/21 15:26	1
Toluene-d8 (Surr)	101		77 - 120		09/24/21 15:26	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Client Sample ID: RW-3D

Lab Sample ID: 480-190769-1

Date Collected: 10/11/21 11:05

Matrix: Water

Date Received: 10/12/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/12/21 18:37	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/12/21 18:37	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/12/21 18:37	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/12/21 18:37	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/12/21 18:37	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/12/21 18:37	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/12/21 18:37	1
1,2-Dichloroethene, Total	52		10	3.2	ug/L			10/12/21 18:37	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/12/21 18:37	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/12/21 18:37	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/12/21 18:37	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/12/21 18:37	1
Acrolein	ND	*+	100	17	ug/L			10/12/21 18:37	1
Acrylonitrile	ND		50	1.9	ug/L			10/12/21 18:37	1
Benzene	ND		5.0	0.60	ug/L			10/12/21 18:37	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/12/21 18:37	1
Bromoform	ND		5.0	0.47	ug/L			10/12/21 18:37	1
Bromomethane	ND		5.0	1.2	ug/L			10/12/21 18:37	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/12/21 18:37	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/12/21 18:37	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			10/12/21 18:37	1
Chloroethane	ND		5.0	0.87	ug/L			10/12/21 18:37	1
Chloroform	ND		5.0	0.54	ug/L			10/12/21 18:37	1
Chloromethane	ND		5.0	0.64	ug/L			10/12/21 18:37	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/12/21 18:37	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/12/21 18:37	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/12/21 18:37	1
Toluene	ND		5.0	0.45	ug/L			10/12/21 18:37	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			10/12/21 18:37	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/12/21 18:37	1
Trichloroethene	96		5.0	0.60	ug/L			10/12/21 18:37	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/12/21 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 130		10/12/21 18:37	1
4-Bromofluorobenzene (Surr)	99		76 - 123		10/12/21 18:37	1
Dibromofluoromethane (Surr)	100		75 - 123		10/12/21 18:37	1
Toluene-d8 (Surr)	104		77 - 120		10/12/21 18:37	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	83		10	0.68	ug/L			10/13/21 13:53	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 130		10/13/21 13:53	2
4-Bromofluorobenzene (Surr)	99		76 - 123		10/13/21 13:53	2
Dibromofluoromethane (Surr)	100		75 - 123		10/13/21 13:53	2
Toluene-d8 (Surr)	104		77 - 120		10/13/21 13:53	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Client Sample ID: RW-3D

Lab Sample ID: 480-190769-1

Date Collected: 10/11/21 11:05

Matrix: Water

Date Received: 10/12/21 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	668		10.0	4.0	mg/L			10/12/21 14:25	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12	HF	0.100	0.100	SU			10/14/21 09:12	1
Temperature	19.7	HF	0.00100	0.00100	Degrees C			10/14/21 09:12	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Client Sample ID: Effluent

Lab Sample ID: 480-190769-2

Date Collected: 10/11/21 10:55

Matrix: Water

Date Received: 10/12/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/12/21 19:01	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/12/21 19:01	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/12/21 19:01	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/12/21 19:01	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/12/21 19:01	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/12/21 19:01	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/12/21 19:01	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/12/21 19:01	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/12/21 19:01	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/12/21 19:01	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/12/21 19:01	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/12/21 19:01	1
Acrolein	ND	+	100	17	ug/L			10/12/21 19:01	1
Acrylonitrile	ND		50	1.9	ug/L			10/12/21 19:01	1
Benzene	ND		5.0	0.60	ug/L			10/12/21 19:01	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/12/21 19:01	1
Bromoform	ND		5.0	0.47	ug/L			10/12/21 19:01	1
Bromomethane	ND		5.0	1.2	ug/L			10/12/21 19:01	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/12/21 19:01	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/12/21 19:01	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			10/12/21 19:01	1
Chloroethane	ND		5.0	0.87	ug/L			10/12/21 19:01	1
Chloroform	ND		5.0	0.54	ug/L			10/12/21 19:01	1
Chloromethane	ND		5.0	0.64	ug/L			10/12/21 19:01	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/12/21 19:01	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/12/21 19:01	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/12/21 19:01	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/12/21 19:01	1
Toluene	ND		5.0	0.45	ug/L			10/12/21 19:01	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			10/12/21 19:01	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/12/21 19:01	1
Trichloroethene	ND		5.0	0.60	ug/L			10/12/21 19:01	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/12/21 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 130		10/12/21 19:01	1
4-Bromofluorobenzene (Surr)	100		76 - 123		10/12/21 19:01	1
Dibromofluoromethane (Surr)	101		75 - 123		10/12/21 19:01	1
Toluene-d8 (Surr)	105		77 - 120		10/12/21 19:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	679		10.0	4.0	mg/L			10/12/21 14:25	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13	HF **	0.100	0.100	SU			10/13/21 17:54	1
Temperature	17.2	HF	0.00100	0.00100	Degrees C			10/13/21 17:54	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Client Sample ID: RW-3D

Lab Sample ID: 480-192049-1

Date Collected: 11/08/21 10:30

Matrix: Water

Date Received: 11/09/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/09/21 13:27	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/09/21 13:27	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/21 13:27	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/09/21 13:27	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/09/21 13:27	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/09/21 13:27	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/21 13:27	1
1,2-Dichloroethene, Total	19		10	3.2	ug/L			11/09/21 13:27	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/09/21 13:27	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/09/21 13:27	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/09/21 13:27	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/09/21 13:27	1
Acrolein	ND	*+	100	17	ug/L			11/09/21 13:27	1
Acrylonitrile	ND		50	1.9	ug/L			11/09/21 13:27	1
Benzene	ND		5.0	0.60	ug/L			11/09/21 13:27	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/09/21 13:27	1
Bromoform	ND		5.0	0.47	ug/L			11/09/21 13:27	1
Bromomethane	ND		5.0	1.2	ug/L			11/09/21 13:27	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/21 13:27	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/09/21 13:27	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			11/09/21 13:27	1
Chloroethane	ND		5.0	0.87	ug/L			11/09/21 13:27	1
Chloroform	ND		5.0	0.54	ug/L			11/09/21 13:27	1
Chloromethane	ND		5.0	0.64	ug/L			11/09/21 13:27	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/09/21 13:27	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/09/21 13:27	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/21 13:27	1
Tetrachloroethene	47		5.0	0.34	ug/L			11/09/21 13:27	1
Toluene	ND		5.0	0.45	ug/L			11/09/21 13:27	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			11/09/21 13:27	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/09/21 13:27	1
Trichloroethene	42		5.0	0.60	ug/L			11/09/21 13:27	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/09/21 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 130		11/09/21 13:27	1
4-Bromofluorobenzene (Surr)	99		76 - 123		11/09/21 13:27	1
Dibromofluoromethane (Surr)	103		75 - 123		11/09/21 13:27	1
Toluene-d8 (Surr)	104		77 - 120		11/09/21 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	676		10.0	4.0	mg/L			11/11/21 09:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.40	HF	0.100	0.100	SU			11/15/21 11:04	1
Temperature	22.8	HF	0.00100	0.00100	Degrees C			11/15/21 11:04	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Client Sample ID: EFFLUENT

Lab Sample ID: 480-192049-2

Date Collected: 11/08/21 10:45

Matrix: Water

Date Received: 11/09/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/09/21 13:50	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/09/21 13:50	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/21 13:50	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/09/21 13:50	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/09/21 13:50	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/09/21 13:50	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/21 13:50	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/09/21 13:50	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/09/21 13:50	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/09/21 13:50	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/09/21 13:50	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/09/21 13:50	1
Acrolein	ND	+	100	17	ug/L			11/09/21 13:50	1
Acrylonitrile	ND		50	1.9	ug/L			11/09/21 13:50	1
Benzene	ND		5.0	0.60	ug/L			11/09/21 13:50	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/09/21 13:50	1
Bromoform	ND		5.0	0.47	ug/L			11/09/21 13:50	1
Bromomethane	ND		5.0	1.2	ug/L			11/09/21 13:50	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/21 13:50	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/09/21 13:50	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			11/09/21 13:50	1
Chloroethane	ND		5.0	0.87	ug/L			11/09/21 13:50	1
Chloroform	ND		5.0	0.54	ug/L			11/09/21 13:50	1
Chloromethane	ND		5.0	0.64	ug/L			11/09/21 13:50	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/09/21 13:50	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/09/21 13:50	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/21 13:50	1
Tetrachloroethene	ND		5.0	0.34	ug/L			11/09/21 13:50	1
Toluene	ND		5.0	0.45	ug/L			11/09/21 13:50	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			11/09/21 13:50	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/09/21 13:50	1
Trichloroethene	ND		5.0	0.60	ug/L			11/09/21 13:50	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/09/21 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 130		11/09/21 13:50	1
4-Bromofluorobenzene (Surr)	99		76 - 123		11/09/21 13:50	1
Dibromofluoromethane (Surr)	104		75 - 123		11/09/21 13:50	1
Toluene-d8 (Surr)	102		77 - 120		11/09/21 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	642		10.0	4.0	mg/L			11/11/21 09:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.18	HF	0.100	0.100	SU			11/15/21 11:05	1
Temperature	22.9	HF	0.00100	0.00100	Degrees C			11/15/21 11:05	1

Eurofins TestAmerica, Buffalo

ANALYTICAL RESULTS

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

Sample: RW-3D		Lab ID: 70198509001		Collected: 12/16/21 10:10		Received: 12/18/21 10:45		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1			12/21/21 11:53	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1			12/21/21 11:53	75-27-4	M1
Bromoform	<1.0	ug/L	1.0	1			12/21/21 11:53	75-25-2	L2,M0
Bromomethane	<1.0	ug/L	1.0	1			12/21/21 11:53	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	1			12/21/21 11:53	56-23-5	L2,M0
Chlorobenzene	<1.0	ug/L	1.0	1			12/21/21 11:53	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1			12/21/21 11:53	75-00-3	
Chloroform	<1.0	ug/L	1.0	1			12/21/21 11:53	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1			12/21/21 11:53	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1			12/21/21 11:53	124-48-1	M1
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1			12/21/21 11:53	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1			12/21/21 11:53	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1			12/21/21 11:53	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1			12/21/21 11:53	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1			12/21/21 11:53	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1			12/21/21 11:53	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1			12/21/21 11:53	75-35-4	
cis-1,2-Dichloroethene	1.1	ug/L	1.0	1			12/21/21 11:53	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1			12/21/21 11:53	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1			12/21/21 11:53	78-87-5	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1			12/21/21 11:53	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1			12/21/21 11:53	10061-02-6	M1,v3
Ethylbenzene	<1.0	ug/L	1.0	1			12/21/21 11:53	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1			12/21/21 11:53	75-09-2	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1			12/21/21 11:53	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	1			12/21/21 11:53	127-18-4	
Toluene	<1.0	ug/L	1.0	1			12/21/21 11:53	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1			12/21/21 11:53	71-55-6	L2,M0
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1			12/21/21 11:53	79-00-5	
Trichloroethene	1.0	ug/L	1.0	1			12/21/21 11:53	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1			12/21/21 11:53	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1			12/21/21 11:53	75-01-4	
Xylene (Total)	<1.0	ug/L	1.0	1			12/21/21 11:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	91	%	80-110	1			12/21/21 11:53	460-00-4	
Toluene-d8 (S)	96	%	87-120	1			12/21/21 11:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	92	%	76-127	1			12/21/21 11:53	17060-07-0	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	678	mg/L	20.0	1			12/23/21 15:12		
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville							
pH	8.0	Std. Units	0.10	1			12/22/21 13:51		H3,H6, N3

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ANALYTICAL RESULTS

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

Sample: RW-3D		Lab ID: 70198509001		Collected: 12/16/21 10:10		Received: 12/18/21 10:45		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville							
Temperature, Water (C)		18.1	deg C	0.10	1		12/22/21 13:51		H3,H6

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ANALYTICAL RESULTS

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

Sample: EFFLUENT		Lab ID: 70198509002	Collected: 12/16/21 10:40	Received: 12/18/21 10:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		12/21/21 12:12	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		12/21/21 12:12	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		12/21/21 12:12	75-25-2	L2
Bromomethane	<1.0	ug/L	1.0	1		12/21/21 12:12	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/21/21 12:12	56-23-5	L2
Chlorobenzene	<1.0	ug/L	1.0	1		12/21/21 12:12	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		12/21/21 12:12	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		12/21/21 12:12	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		12/21/21 12:12	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		12/21/21 12:12	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		12/21/21 12:12	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		12/21/21 12:12	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		12/21/21 12:12	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		12/21/21 12:12	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/21/21 12:12	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/21/21 12:12	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/21/21 12:12	75-35-4	
cis-1,2-Dichloroethene	12.9	ug/L	1.0	1		12/21/21 12:12	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		12/21/21 12:12	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/21/21 12:12	78-87-5	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/21/21 12:12	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/21/21 12:12	10061-02-6	v3
Ethylbenzene	<1.0	ug/L	1.0	1		12/21/21 12:12	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		12/21/21 12:12	75-09-2	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/21/21 12:12	79-34-5	
Tetrachloroethene	40.3	ug/L	1.0	1		12/21/21 12:12	127-18-4	
Toluene	<1.0	ug/L	1.0	1		12/21/21 12:12	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/21/21 12:12	71-55-6	L2
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/21/21 12:12	79-00-5	
Trichloroethene	35.1	ug/L	1.0	1		12/21/21 12:12	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		12/21/21 12:12	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		12/21/21 12:12	75-01-4	
Xylene (Total)	<1.0	ug/L	1.0	1		12/21/21 12:12	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	93	%	80-110	1		12/21/21 12:12	460-00-4	
Toluene-d8 (S)	99	%	87-120	1		12/21/21 12:12	2037-26-5	
1,2-Dichloroethane-d4 (S)	91	%	76-127	1		12/21/21 12:12	17060-07-0	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	692	mg/L	20.0	1		12/23/21 15:12		
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville						
pH	7.2	Std. Units	0.10	1		12/22/21 13:52		H3,H6, N3

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ANALYTICAL RESULTS

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

Sample: EFFLUENT		Lab ID: 70198509002	Collected: 12/16/21 10:40	Received: 12/18/21 10:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville						
Temperature, Water (C)	17.4	deg C	0.10	1		12/22/21 13:52		H3,H6

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ANALYTICAL RESULTS

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

Sample: RAW=3D		Lab ID: 70199989001		Collected: 01/04/22 09:00		Received: 01/06/22 10:20		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		01/06/22 19:25	71-43-2	L2,v3	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/06/22 19:25	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		01/06/22 19:25	75-25-2		
Bromomethane	<1.0	ug/L	1.0	1		01/06/22 19:25	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/06/22 19:25	56-23-5		
Chlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:25	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		01/06/22 19:25	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		01/06/22 19:25	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		01/06/22 19:25	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		01/06/22 19:25	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:25	95-50-1	v3	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:25	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:25	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/06/22 19:25	75-71-8		
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:25	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:25	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/06/22 19:25	75-35-4		
cis-1,2-Dichloroethene	27.2	ug/L	1.0	1		01/06/22 19:25	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/06/22 19:25	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/06/22 19:25	78-87-5		IC
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/06/22 19:25	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/06/22 19:25	10061-02-6		
Ethylbenzene	<1.0	ug/L	1.0	1		01/06/22 19:25	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		01/06/22 19:25	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/06/22 19:25	79-34-5		
Tetrachloroethene	57.6	ug/L	1.0	1		01/06/22 19:25	127-18-4		
Toluene	<1.0	ug/L	1.0	1		01/06/22 19:25	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:25	71-55-6		
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:25	79-00-5		
Trichloroethene	59.5	ug/L	1.0	1		01/06/22 19:25	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/06/22 19:25	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		01/06/22 19:25	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		01/06/22 19:25	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	84	%	80-110	1		01/06/22 19:25	460-00-4		
Toluene-d8 (S)	100	%	87-120	1		01/06/22 19:25	2037-26-5		
1,2-Dichloroethane-d4 (S)	110	%	76-127	1		01/06/22 19:25	17060-07-0		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	650	mg/L	20.0	1		01/10/22 12:08			
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville							
pH	7.2	Std. Units	0.10	1		01/10/22 12:02		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

Sample: RAW=3D		Lab ID: 70199989001		Collected: 01/04/22 09:00		Received: 01/06/22 10:20		Matrix: Water	
Parameters		Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville							
Temperature, Water (C)		22.3	deg C	0.10	1		01/10/22 12:02		H3,H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

Sample: EFFLUENT		Lab ID: 70199989002	Collected: 01/04/22 09:10	Received: 01/06/22 10:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		01/06/22 19:07	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/06/22 19:07	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		01/06/22 19:07	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/06/22 19:07	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/06/22 19:07	56-23-5	L2,v3
Chlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:07	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/06/22 19:07	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/06/22 19:07	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		01/06/22 19:07	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/06/22 19:07	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:07	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:07	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:07	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/06/22 19:07	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:07	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:07	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/06/22 19:07	75-35-4	
cis-1,2-Dichloroethene	1.2	ug/L	1.0	1		01/06/22 19:07	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/06/22 19:07	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/06/22 19:07	78-87-5	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/06/22 19:07	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/06/22 19:07	10061-02-6	
Ethylbenzene	<1.0	ug/L	1.0	1		01/06/22 19:07	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		01/06/22 19:07	75-09-2	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/06/22 19:07	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/06/22 19:07	127-18-4	
Toluene	<1.0	ug/L	1.0	1		01/06/22 19:07	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:07	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:07	79-00-5	IC
Trichloroethene	<1.0	ug/L	1.0	1		01/06/22 19:07	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/06/22 19:07	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/06/22 19:07	75-01-4	
Xylene (Total)	<1.0	ug/L	1.0	1		01/06/22 19:07	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	80	%	80-110	1		01/06/22 19:07	460-00-4	
Toluene-d8 (S)	101	%	87-120	1		01/06/22 19:07	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	76-127	1		01/06/22 19:07	17060-07-0	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	658	mg/L	20.0	1		01/10/22 12:09		
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville						
pH	8.0	Std. Units	0.10	1		01/10/22 12:02		H3,H6, N3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

Sample: EFFLUENT		Lab ID: 70199989002	Collected: 01/04/22 09:10	Received: 01/06/22 10:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville						
Temperature, Water (C)	22.5	deg C	0.10	1		01/10/22 12:02		H3,H6

REPORT OF LABORATORY ANALYSIS

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO #344035

Sample Description:

Work Order: 22B0134

Date Received: 2/2/2022

Field Sample #: RW-3D

Sampled: 2/1/2022 12:00

Sample ID: 22B0134-01

Sample Matrix: Water

Sample Flags: PR-10

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Tetrachloroethylene	1.17	2.00	0.187	µg/L	1	J	624.1	2/3/22	2/3/22 16:37	MFF
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Trichloroethylene	1.54	2.00	0.189	µg/L	1	J	624.1	2/3/22	2/3/22 16:37	MFF
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	96.4	70-130	2/3/22 16:37
Toluene-d8	107	70-130	2/3/22 16:37
4-Bromofluorobenzene	102	70-130	2/3/22 16:37

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO #344035

Sample Description:

Work Order: 22B0134

Date Received: 2/2/2022

Field Sample #: RW-3D

Sampled: 2/1/2022 12:00

Sample ID: 22B0134-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @20.8°C	7.2		pH Units	1	H-05	SM21-23 4500 H B	2/2/22	2/2/22 20:20	CB2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO #344035

Sample Description:

Work Order: 22B0134

Date Received: 2/2/2022

Field Sample #: RW-3D

Sampled: 2/1/2022 12:00

Sample ID: 22B0134-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	660	10	mg/L	1		SM21-23 2540C	2/7/22	2/7/22 13:10	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO #344035

Sample Description:

Work Order: 22B0134

Date Received: 2/2/2022

Field Sample #: Effluent

Sampled: 2/1/2022 12:05

Sample ID: 22B0134-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Chloroform	0.550	2.00	0.168	µg/L	1	J	624.1	2/3/22	2/3/22 16:13	MFF
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Tetrachloroethylene	57.5	2.00	0.187	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Trichloroethylene	54.8	2.00	0.189	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	96.7	70-130							2/3/22 16:13	
Toluene-d8	107	70-130							2/3/22 16:13	
4-Bromofluorobenzene	103	70-130							2/3/22 16:13	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO #344035

Sample Description:

Work Order: 22B0134

Date Received: 2/2/2022

Field Sample #: Effluent

Sampled: 2/1/2022 12:05

Sample ID: 22B0134-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @20°C	8.1		pH Units	1	H-05	SM21-23 4500 H B	2/2/22	2/2/22 20:20	CB2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO #344035

Sample Description:

Work Order: 22B0134

Date Received: 2/2/2022

Field Sample #: Effluent

Sampled: 2/1/2022 12:05

Sample ID: 22B0134-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	650	10	mg/L	1		SM21-23 2540C	2/7/22	2/7/22 13:10	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO

Sample Description:

Work Order: 22C0450

Date Received: 3/7/2022

Field Sample #: RW-3D

Sampled: 3/7/2022 10:30

Sample ID: 22C0450-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Chloroform	0.720	2.00	0.168	µg/L	1	J	624.1	3/8/22	3/8/22 13:49	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Tetrachloroethylene	91.8	2.00	0.187	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Trichloroethylene	86.0	2.00	0.189	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	90.6	70-130								
Toluene-d8	96.0	70-130								
4-Bromofluorobenzene	110	70-130								

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO

Sample Description:

Work Order: 22C0450

Date Received: 3/7/2022

Field Sample #: RW-3D

Sampled: 3/7/2022 10:30

Sample ID: 22C0450-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @19°C	7.2		pH Units	1	H-05	SM21-23 4500 H B	3/7/22	3/7/22 20:45	CB2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO

Sample Description:

Work Order: 22C0450

Date Received: 3/7/2022

Field Sample #: RW-3D

Sampled: 3/7/2022 10:30

Sample ID: 22C0450-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	600	10	mg/L	1		SM21-23 2540C	3/8/22	3/8/22 13:04	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO

Sample Description:

Work Order: 22C0450

Date Received: 3/7/2022

Field Sample #: Effluent

Sampled: 3/7/2022 11:00

Sample ID: 22C0450-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Tetrachloroethylene	0.270	2.00	0.187	µg/L	1	J	624.1	3/8/22	3/8/22 13:23	LBD
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Trichloroethylene	0.550	2.00	0.189	µg/L	1	J	624.1	3/8/22	3/8/22 13:23	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual
1,2-Dichloroethane-d4	88.9	70-130	3/8/22 13:23
Toluene-d8	90.4	70-130	3/8/22 13:23
4-Bromofluorobenzene	98.9	70-130	3/8/22 13:23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO

Sample Description:

Work Order: 22C0450

Date Received: 3/7/2022

Field Sample #: Effluent

Sampled: 3/7/2022 11:00

Sample ID: 22C0450-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @18.2°C	8.1		pH Units	1	H-05	SM21-23 4500 H B	3/7/22	3/7/22 20:45	CB2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO

Sample Description:

Work Order: 22C0450

Date Received: 3/7/2022

Field Sample #: Effluent

Sampled: 3/7/2022 11:00

Sample ID: 22C0450-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	580	10	mg/L	1		SM21-23 2540C	3/8/22	3/8/22 13:04	LL

APPENDIX E

DATA USABILITY SUMMARY REPORTS

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

COSCO #344035
Eurofins SDG#480-187661-1
August 9, 2021
Sampling date: 7/26/2021

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

COSCO #344035
#480-187661-1

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Ramboll, Eurofins SDG#480-187661-1, submitted to Vali-Data of WNY, LLC on August 5, 2021. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analysis using USEPA method Volatile Organics (624.1).

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Surrogate Spike Recoveries and Continuing Calibration.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met.

INTERNAL STANDARD (IS)

All criteria were met.

SURROGATE SPIKE RECOVERIES

All criteria were met except the %Rec of 1,2-Dichloroethane-d₄ was outside QC limits, high in all samples and QC except LCS 460-793262/4 and TRIP BLANK 072621 and should be qualified as estimated. Associated target analytes detected in the non-conforming samples and QC should be qualified as estimated high.

METHOD BLANK

All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION

All criteria were met.

LABORATORY CONTROL SAMPLES

All criteria were met.

MS/MSD

No MS/MSD was acquired for this analysis.

COMPOUND QUANTITATION

All criteria were met.

INITIAL CALIBRATION

All criteria were met.

CONTINUING CALIBRATION

All criteria were met except the %Rec of Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, 1,1-Dichloroethane, Chloroform and 1,2-Dichloroethane was outside QC limits in CCVIS 460-793262/3. These target analytes should be qualified as estimated in the associated samples, blanks and spikes.

GC/MS PERFORMANCE CHECK

All criteria were met.

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

COSCO #344035
Eurofins SDG#460-239698-1
August 10, 2021
Sampling date: 7/27/2021

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

COSCO #344035
#460-239698-1

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Ramboll, Eurofins SDG#460-239698-1, submitted to Vali-Data of WNY, LLC on August 5, 2021. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines(NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analysis using USEPA method Volatile Organics (624.1).

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Initial Calibration and Continuing Calibration.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met.

INTERNAL STANDARD (IS)

All criteria were met.

SURROGATE SPIKE RECOVERIES

All criteria were met.

METHOD BLANK

All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION

No field duplicate was acquired.

LABORATORY CONTROL SAMPLES

All criteria were met.

MS/MSD

All criteria were met.

COMPOUND QUANTITATION

All criteria were met.

INITIAL CALIBRATION

All criteria were met except the RRF of Bromodichloromethane was outside QC limits in the initial calibration performed on instrument CVOAMS1. The %Rec of 1,1-Dichloroethene was outside QC limits in ICV 460-788529/13. These target analytes should be qualified as estimated in the associated samples, blanks and spikes.

CONTINUING CALIBRATION

All criteria were met except the %Rec of 1,2-Dichloropropane and 1,1,2,2-Tetrachloroethane was outside QC limits in CCVIS 460-793132/4. These target analytes should be qualified as estimated in the associated samples, blanks and spikes.

GC/MS PERFORMANCE CHECK

All criteria were met.

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

COSCO-CO #142773
Con-Test Analytical Laboratory SDG#22C1442
April 21, 2022
Sampling date: 3/21/2022

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

COSCO-CO #142773
SDG# 22C1442-1

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Ramboll, project located at COSCO-CO #142773, Con-Test Analytical Laboratory SDG#22C1442-1 submitted to Vali-Data of WNY, LLC on April 12, 2022. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines (NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analysis using USEPA Method Volatile Organics (624.1).

ID	Sample ID	Laboratory ID
1	GW-4S-032122	22C1442-01
2	GP-4D-032122	22C1442-02
3	DW-1-032122	22C1442-03
4	DUP-01-032122	22C1442-04
5	Trip Blank-01-032122	22C1442-05

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Compound Quantitation, Initial Calibration and Continuing Calibration.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met except the pH of the samples was outside QC limits. The samples were analyzed within the 7-day window, so no further action is required.

INTERNAL STANDARD (IS)

All criteria were met.

SURROGATE SPIKE RECOVERIES

All criteria were met.

METHOD BLANK

All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION

All criteria were met except Bromodichloromethane was detected in GP-4D-032122 but was not detected in DUP-01-032122.

LABORATORY CONTROL SAMPLES

All criteria were met.

MS/MSD

No MS/MSD was acquired.

COMPOUND QUANTITATION

All criteria were met except Methylene chloride was detected above the MDL, below the reporting limit and is qualified as estimated in Trip Blank-01-032122. This target analyte was not detected in the samples, so no further action is required.

INITIAL CALIBRATION

All criteria were met except some target analytes were outside QC limits in the initial calibration verification. These target analytes should be qualified as estimated in the blanks, samples and spikes.

ICV Instrument	Target Analyte	%Rec	Qualifier	Associated Sample
GCMSVOA2	Chloromethane	45.5	UJ/J	B303894-BLK/LCS/LCSD, 1-5
GCMSVOA2	Bromomethane	62.6	UJ/J	B303894-BLK/LCS/LCSD, 1-5

Alternate forms of regression were performed on target analytes in which the %RSD > 20%, with acceptable results.

CONTINUING CALIBRATION

All criteria were met except several target analytes were outside QC limits in the continuing calibrations and should be qualified as estimated in the associated samples, blanks and spikes.

CCal ID	Target Analyte	%D	Qualifier	Associated Sample
S069557-CCV1	1,1-Dichloroethene	20.9	UJ/J	B303894-BLK/LCS/LCSD, 1-5
S069557-CCV1	Tetrachloroethene	24.9	UJ/J	B303894-BLK/LCS/LCSD, 1-5
S069557-CCV1	Chloromethane	-54.1	UJ/J	B303894-BLK/LCS/LCSD, 1-5

GC/MS PERFORMANCE CHECK

All criteria were met.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

624.1

Qualifications:

PR-08

pH of sample (pH 5) is outside of method specified preservation criteria.

Analyte & Samples(s) Qualified:

22C1442-05[Trip Blank-01-032122]

PR-09

pH of sample (pH 6) is outside of method specified preservation criteria.

Analyte & Samples(s) Qualified:

22C1442-01[GW-4S-032122], 22C1442-02[GW-4D-032122], 22C1442-03[DW-1-032122], 22C1442-04[DUP-01-032122]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

COSCO-CO #142773
Con-Test Analytical Laboratory SDG#22C1516
April 22, 2022
Sampling date: 3/22/2022

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

COSCO-CO #142773
SDG# 22C1516-1

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Ramboll, project located at COSCO-CO #142773, Con-Test Analytical Laboratory SDG#22C1516-1 submitted to Vali-Data of WNY, LLC on April 12, 2022. This DUSR has been prepared in general compliance with USEPA National Functional Guidelines (NFG) and NYSDEC Analytical Services Protocols. The laboratory performed the analysis using USEPA Method Volatile Organics (624.1).

ID	Sample ID	Laboratory ID
1	MW-3-032222	22C1516-01
2	RW-8S-032222	22C1516-02
3	RW-1S-032222	22C1516-03
4	MW-18-032222	22C1516-04
5	Trip Blank-02-032222	22C1516-05

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Compound Quantitation, Initial Calibration and Continuing Calibration.

COSCO-CO #142773

SDG# 22C1516-1

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met except the pH of the samples was outside QC limits. The samples were analyzed within the 7-day window, so no further action is required.

INTERNAL STANDARD (IS)

All criteria were met.

SURROGATE SPIKE RECOVERIES

All criteria were met.

METHOD BLANK

All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION

No field duplicate was acquired.

LABORATORY CONTROL SAMPLES

All criteria were met.

MS/MSD

All criteria were met.

COMPOUND QUANTITATION

All criteria were met except Methylene chloride was detected above the MDL, below the reporting limit and is qualified as estimated in Trip Blank-02-032222. This target analyte was not detected in the samples, so no further action is required.

INITIAL CALIBRATION

All criteria were met except some target analytes were outside QC limits in the initial calibration verification. These target analytes should be qualified as estimated in the blanks, samples and spikes.

ICV Instrument	Target Analyte	%Rec	Qualifier	Associated Sample
GCMSVOA2	Chloromethane	45.5	UJ/J	B303989-BLK/LCS/LCSD, 1-5
GCMSVOA2	Bromomethane	62.6	UJ/J	B303989-BLK/LCS/LCSD, 1-5

COSCO-CO #142773

SDG# 22C1516-1

Alternate forms of regression were performed on target analytes in which the %RSD > 20%, with acceptable results.

CONTINUING CALIBRATION

All criteria were met except several target analytes were outside QC limits in the continuing calibrations and should be qualified as estimated in the associated samples, blanks and spikes.

CCal ID	Target Analyte	%D	Qualifier	Associated Sample
S069617-CCV1	Bromomethane	105	UJ/J	B303989-BLK/LCS/LCSD, 1-5
S069617-CCV1	Chloromethane	-55.2	UJ/J	B303989-BLK/LCS/LCSD, 1-5

GC/MS PERFORMANCE CHECK

All criteria were met.

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

624.1**Qualifications:**

PR-08

pH of sample (pH 5) is outside of method specified preservation criteria.

Analyte & Samples(s) Qualified:

22C1516-01[MW-3-032222], 22C1516-05[Trip Blank-02-032222]

PR-09

pH of sample (pH 6) is outside of method specified preservation criteria.

Analyte & Samples(s) Qualified:

22C1516-02[RW-8S-032222], 22C1516-03[RW-1S-032222], 22C1516-04[MW-18-032222], B303989-MS1, B303989-MSD1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

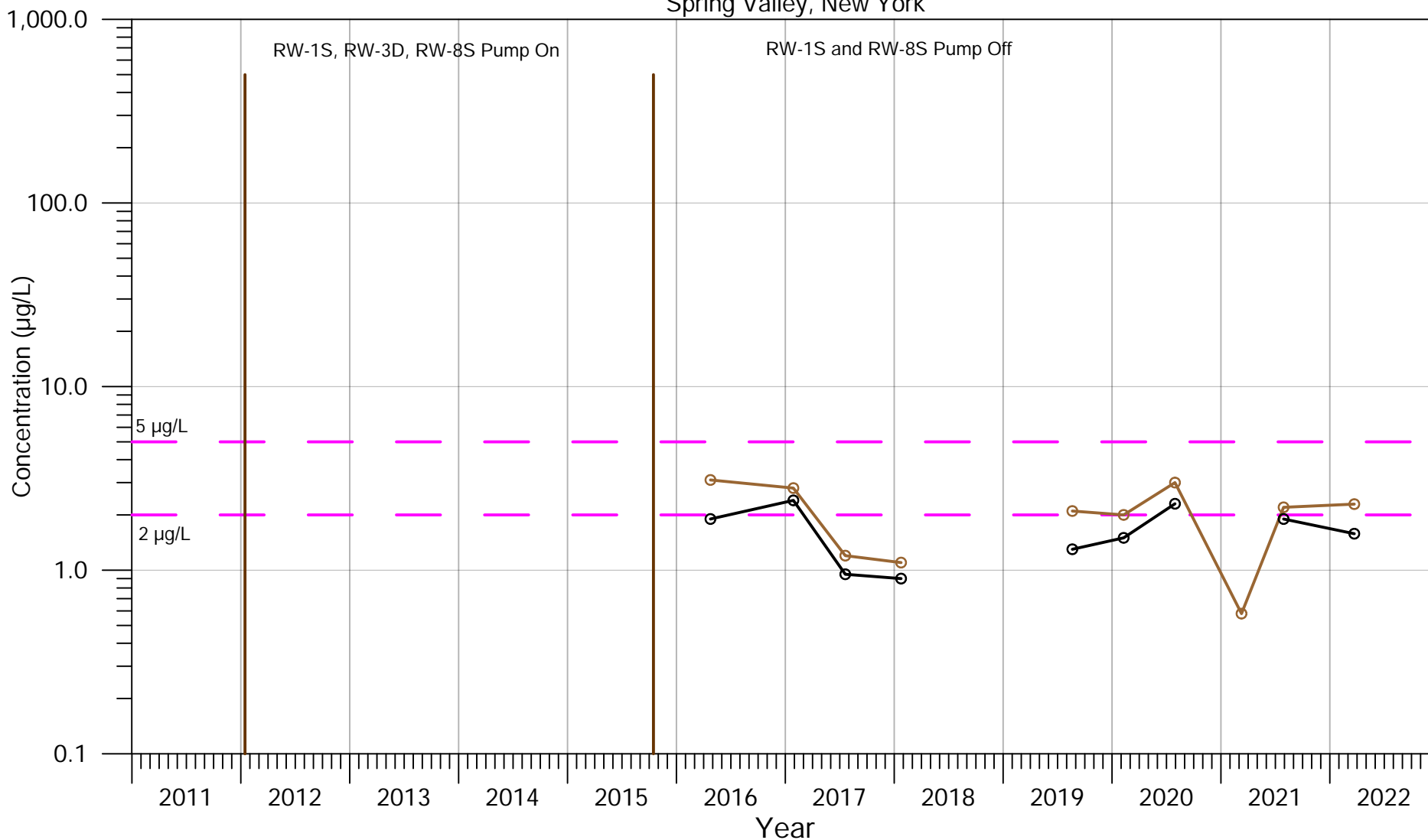


Lisa A. Worthington
Technical Representative

APPENDIX F
CONCENTRATION TREND PLOTS OF SITE CONSTITUENTS OF CONCERN

Concentrations of PCE, TCE, DCE, and VC at Monitoring Well DW-1

NYSDEC COSCO Site
Spring Valley, New York

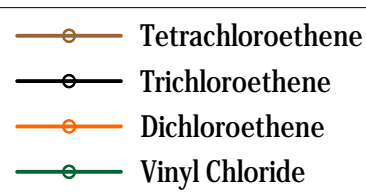
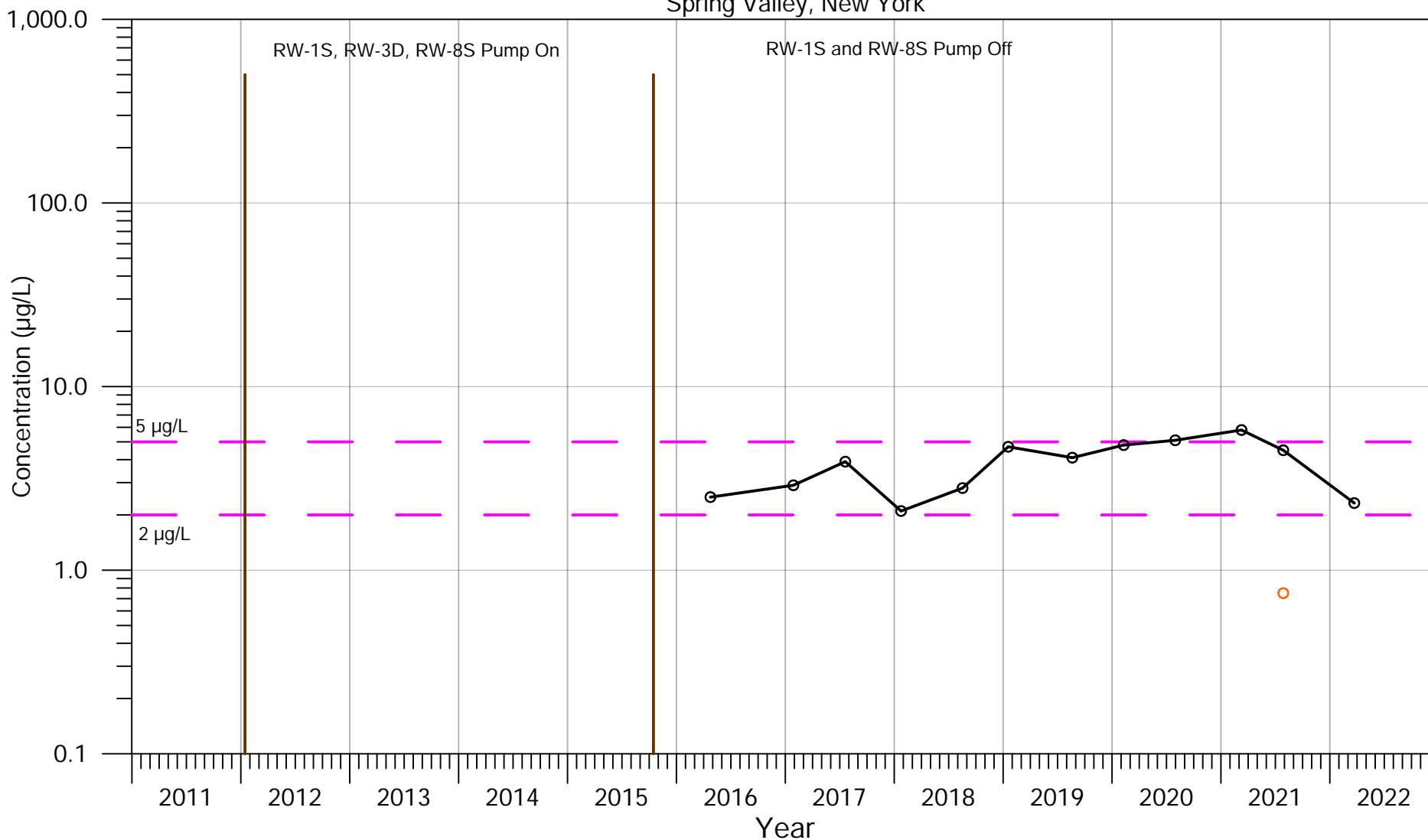


Notes:

1. The sum of cis-1,2-dichloroethene and trans-1,2-dichloroethene is plotted.
2. The Class GA Standard of 2 micrograms per liter (ug/L) for vinyl chloride is shown.
3. The Class GA Standard of 5 ug/L for tetrachloroethene and trichloroethene is shown.
4. To be conservative, the individual Class GA Standard is plotted for cis-1,2-dichloroethene and trans-1,2-dichloroethene, 5 ug/L.
5. For clarity, non-detects are not shown.

Concentrations of PCE, TCE, DCE, and VC at Monitoring Well GW-4S

NYSDEC COSCO Site
Spring Valley, New York

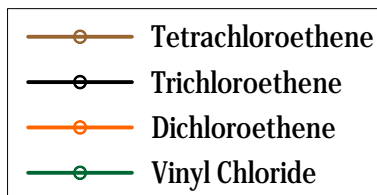
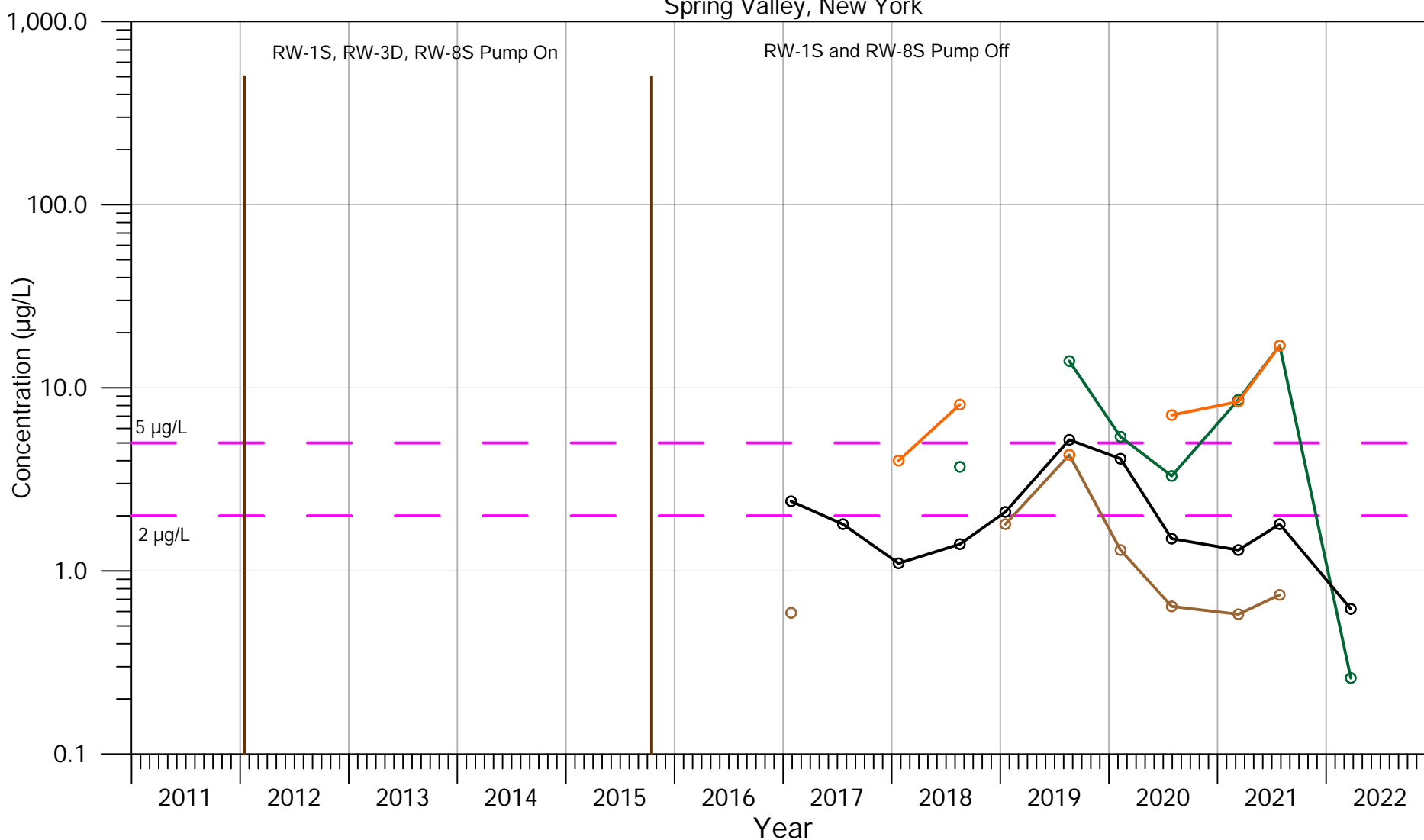


Notes:

1. The sum of cis-1,2-dichloroethene and trans-1,2-dichloroethene is plotted.
2. The Class GA Standard of 2 micrograms per liter (ug/L) for vinyl chloride is shown.
3. The Class GA Standard of 5 ug/L for tetrachloroethene and trichloroethene is shown.
4. To be conservative, the individual Class GA Standard is plotted for cis-1,2-dichloroethene and trans-1,2-dichloroethene, 5 ug/L.
5. For clarity, non-detects are not shown.

Concentrations of PCE, TCE, DCE, and VC at Monitoring Well MW-18

NYSDEC COSCO Site
Spring Valley, New York

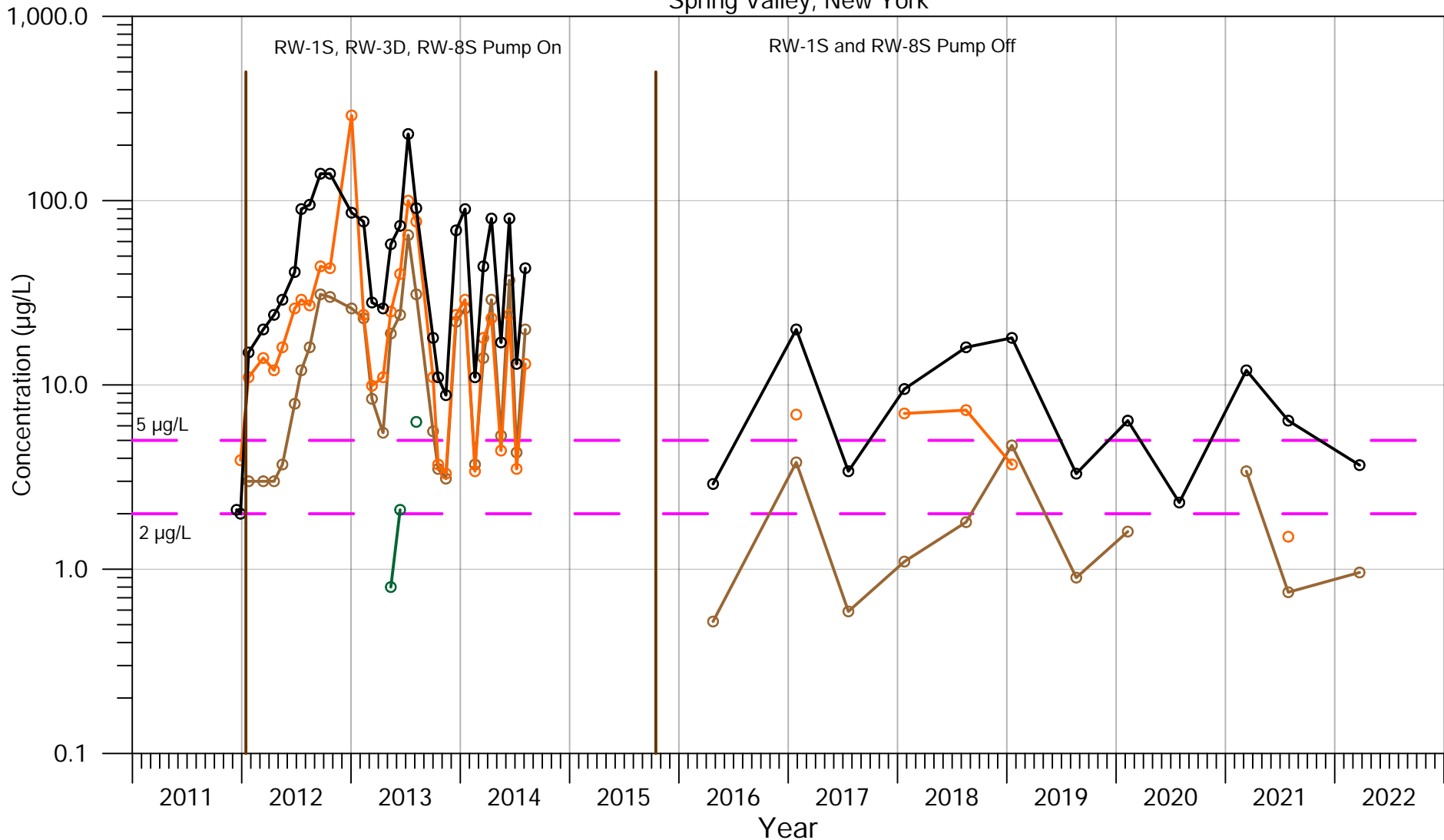


Notes:

1. The sum of cis-1,2-dichloroethene and trans-1,2-dichloroethene is plotted.
2. The Class GA Standard of 2 micrograms per liter (ug/L) for vinyl chloride is shown.
3. The Class GA Standard of 5 ug/L for tetrachloroethene and trichloroethene is shown.
4. To be conservative, the individual Class GA Standard is plotted for cis-1,2-dichloroethene and trans-1,2-dichloroethene, 5 ug/L.
5. For clarity, non-detects are not shown.

Concentrations of PCE, TCE, DCE, and VC at Recovery Well RW-1S

NYSDEC COSCO Site
Spring Valley, New York

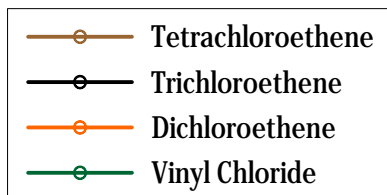
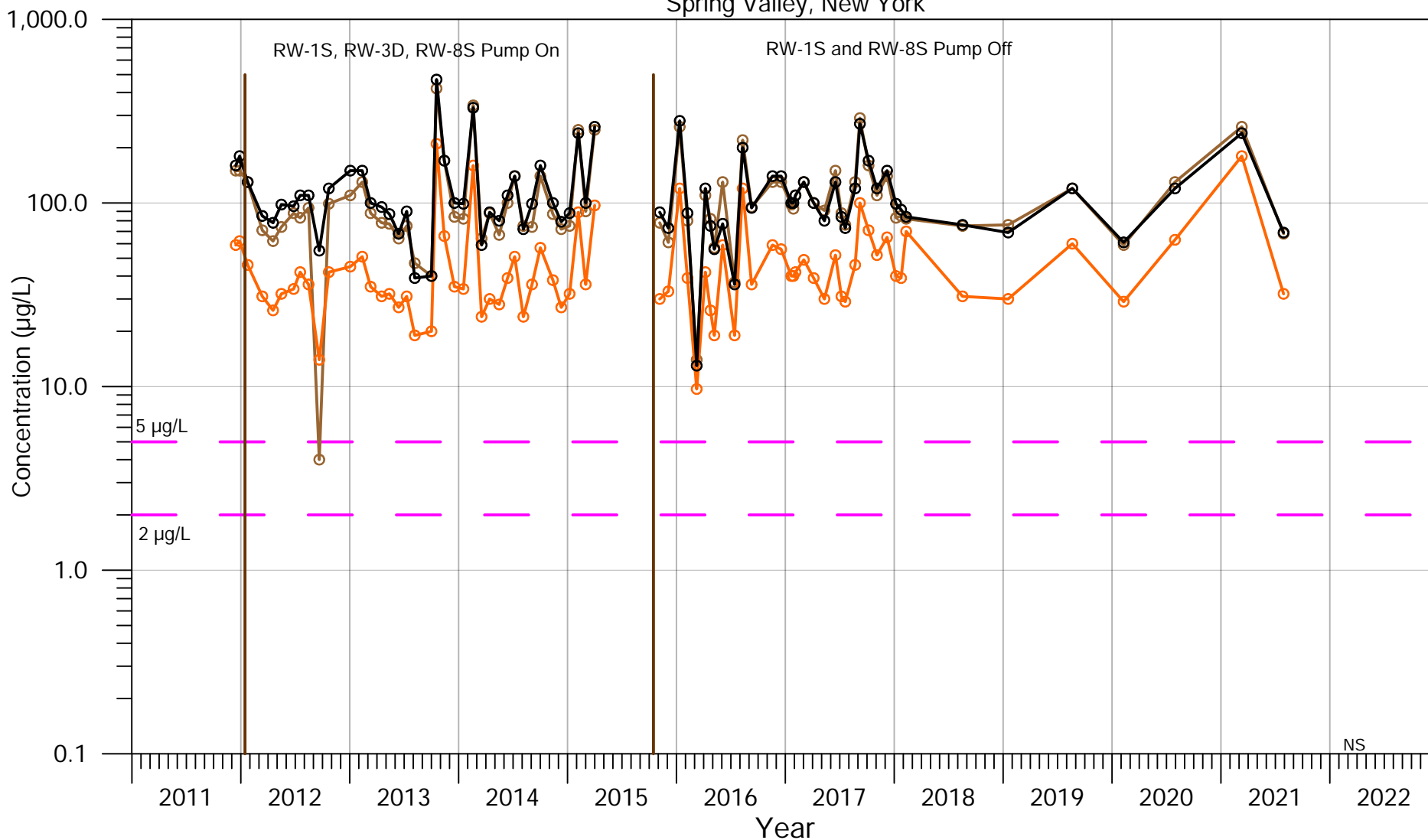


Notes:

1. The sum of cis-1,2-dichloroethene and trans-1,2-dichloroethene is plotted.
2. The Class GA Standard of 2 micrograms per liter (ug/L) for vinyl chloride is shown.
3. The Class GA Standard of 5 ug/L for tetrachloroethene and trichloroethene is shown.
4. To be conservative, the individual Class GA Standard is plotted for cis-1,2-dichloroethene and trans-1,2-dichloroethene, 5 ug/L.
5. For clarity, non-detects are not shown.

Concentrations of PCE, TCE, DCE, and VC at Recovery Well RW-3D

NYSDEC COSCO Site
Spring Valley, New York

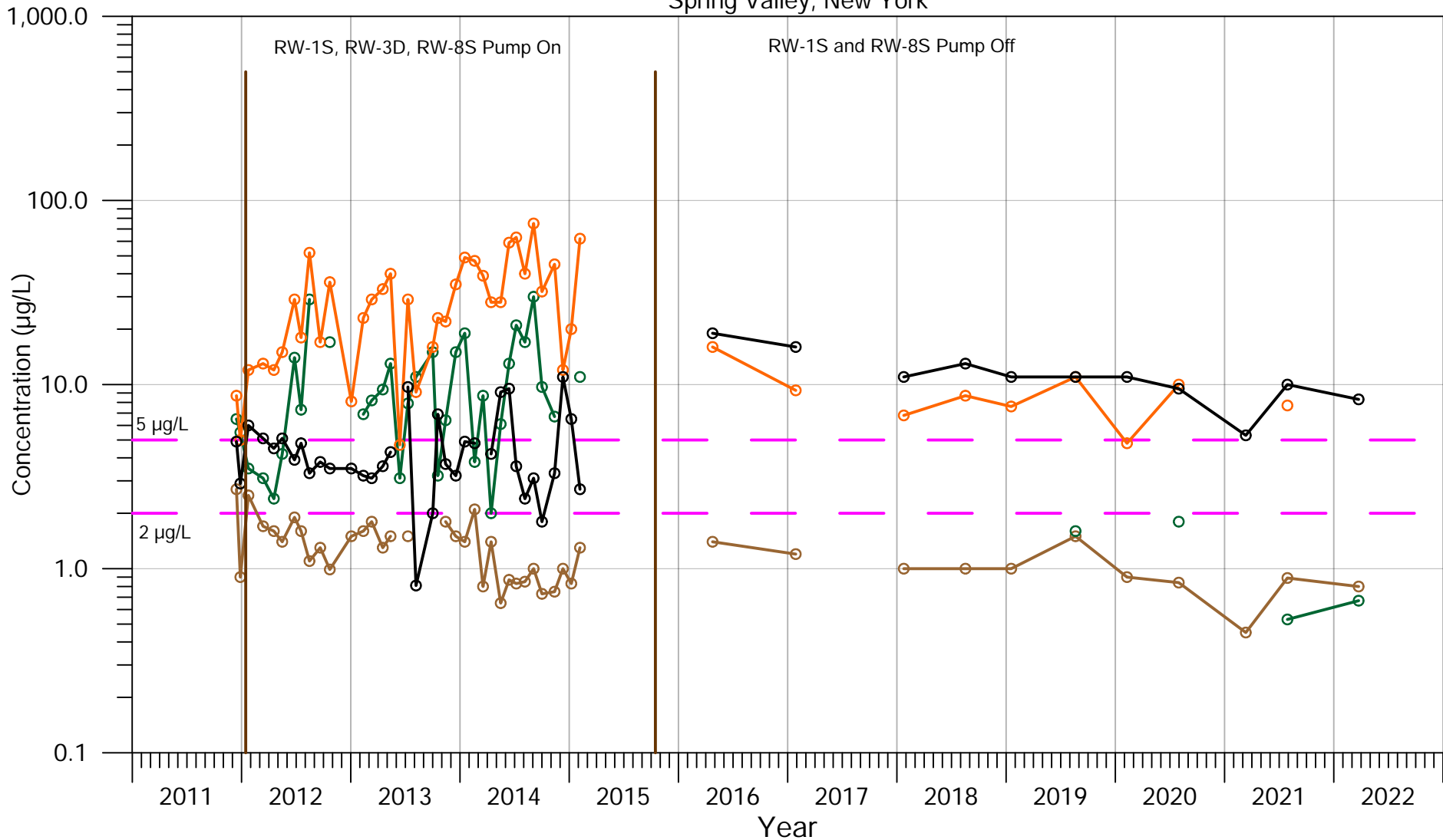


Notes:

1. The sum of cis-1,2-dichloroethene and trans-1,2-dichloroethene is plotted.
2. The Class GA Standard of 2 micrograms per liter (ug/L) for vinyl chloride is shown.
3. The Class GA Standard of 5 ug/L for tetrachloroethene and trichloroethene is shown.
4. To be conservative, the individual Class GA Standard is plotted for cis-1,2-dichloroethene and trans-1,2-dichloroethene, 5 ug/L.
5. For clarity, non-detects are not shown.
6. "NS" indicates that RW-3D was not sampled in March 2022.

Concentrations of PCE, TCE, DCE, and VC at Recovery Well RW-8S

NYSDEC COSCO Site
Spring Valley, New York



Notes:

1. The sum of cis-1,2-dichloroethene and trans-1,2-dichloroethene is plotted.
2. The Class GA Standard of 2 micrograms per liter (ug/L) for vinyl chloride is shown.
3. The Class GA Standard of 5 ug/L for tetrachloroethene and trichloroethene is shown.
4. To be conservative, the individual Class GA Standard is plotted for cis-1,2-dichloroethene and trans-1,2-dichloroethene, 5 ug/L.
5. For clarity, non-detects are not shown.

APPENDIX G
QUARTERLY OPERATING SUMMARY REPORTS

July 11, 2021

Robert Strang, E.I.T.
New York State Department of Environmental Conservation
Remedial Section D, Bureau E
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7014

**RE: First and Second Quarter 2021 Operating Summary Report – Cosco Site
Site Number 344035**

Mr. Strang,

LaBella Associates (LaBella) has prepared the following correspondence to summarize the operation and maintenance (O&M) activities and laboratory analytical results for the New York State Department of Environmental Conservation (NYSDEC) COSCO site located in Spring Valley, New York. The activities summarized within this report include the first and second quarters of 2021 operation and maintenance O&M, and system sampling events conducted by LaBella. Typical tasks performed during O&M activities include:

- System performance readings (flow, pressure, control settings);
- Well gauging;
- Monthly system sampling and laboratory analysis;
- System maintenance;
- Grounds maintenance.

Non-routing O&M activities include:

- Annual SSDS inspection;
- Semi-annual site-wide sampling

Non-routine O&M activities are reported in separate reports.

Site Background

The site is located in the Village of Spring Valley, Rockland County, New York. The site is bordered by a Conrail right of way to the north, West Central Avenue to the south, West Street to the east. The western end of the site is bounded by the intersection between the Conrail right of way and West Central Avenue (**Figure 1**).

The Consolidated Stamp Company (COSCO) historically used trichloroethylene (TCE) in a vapor degreasing process as part of their operation and also discharged wastewater containing TCE into a drainage feature known as the “Reach B Diversion”.

The remedial objective for groundwater at the COSCO site (as per the August 1999 Amendment to the Record of Decision) is to contain the site related contaminants by extracting groundwater from overburden and bedrock, treat the groundwater onsite to remove volatile organic compounds



(VOC's), and discharge the treated groundwater. The primary contaminants of concern (COCs) are TCE, tetrachloroethylene (PCE) and Cis-1-2-dichloroethene (DCE), and degradation byproducts.

The site includes eight (8) groundwater monitoring and/or recovery wells from which monitoring of groundwater quality can be conducted. Five (5) of these wells are completed within the shallow unconsolidated deposits and three (3) are completed within the bedrock.

The current groundwater extraction and treatment (GWE&T) system became operational at the site in January, 2012. This system has extracted groundwater from the overburden via recovery wells RW-1S and RW-8S, and from the bedrock via well RW-3D. The GWE&T system currently extracts groundwater from the bedrock lift well RW-3D. Extracted groundwater is conveyed via underground piping from the recovery well(s) to the treatment system shed located in the area along the Conrail right of way north of the COSCO building. The extracted groundwater is temporarily held in a 1,500-gallon polyethylene batch tank prior to treatment. Treatment is via two (2) bag filter units (connected in a parallel configuration) followed by air stripping. Once air stripping is completed, the treated water is discharged to the "Reach B Diversion" via underground piping.

Procedures

The GWE&T system O&M is via a combination of daily e-mails from the systems programmable logic controller (PLC), and bi-weekly site visits. The daily emails include specific system performance readings (flows, pressures, etc.) that help to evaluate system performance and anticipate O&M tasks to be performed during the bi-weekly site visits.

- System Performance Readings:
 - System Flow – system flow rate and flow total data is transmitted daily via email. Data includes flow rate from active recovery well(s) (currently RW-3D) and flow total. The emails also include data regarding system operational status and system alarms.
 - System Pressure – Pressure readings are recorded during site inspections. Pressure readings are recorded at: the transfer pump; at each bag filter, and; at the effluent pump. Pressure readings are also monitored via the daily emails at each bag filter and the air stripper.
 - Control Settings – Transfer pump, effluent pump and air stripper blower variable frequency drive (VFD) readings are recorded during bi-weekly site inspections. This data is monitored to ensure that the system motors are operating within prescribed parameters.
- Well Gauging – The eight (8) site wells are gauged during site visits to determine the depth to groundwater using an electronic water level meter graduated in 0.01 foot intervals. Groundwater measurements are taken from the top of well casings. The wells are gauged: while the remedial system is running; immediately after the system is shutdown, and; 30 minutes after the system is shutdown. The system is restarted when gauging is completed.
- Monthly System Sampling and Laboratory Analysis – The system influent and effluent (post-treatment) is sampled monthly for laboratory analysis using EPA Method 624. The samples are also analyzed for total dissolved solids (TDS) and acidity (pH). Influent samples are collected from a sample port located on the RW-3D influent line. No other wells are being utilized for groundwater extraction at this time. Effluent samples are collected from a sample port located after the air stripper discharge pump. The samples are delivered under chain of custody protocols to Test America Laboratories, Inc. Laboratory reports are attached.
- System Maintenance – typical routine system maintenance includes: bag filter changes, valve maintenance/cleaning. Frequent non-routine maintenance typically includes: pump and blower repairs/replacement; valve replacement; air stripper cleaning.



System Flow

During the first and second quarters of 2021, a total of 5,419,401 gallons were treated at an average flow rate of approximately 29,941 gallons per day.

Operation and Maintenance Site Inspections

Compiled below is a summary of significant O&M tasks and events pertaining to the COSCO site. These tasks were completed during site visits completed by Aztech for the time period reported herein.

January 2021 (Non-Sampling)

The system was down upon arrival for the first site visit of January. The system was restarted. No samples were collected. Bag filters were changed, and an effluent pump was installed. The system was operational upon departure.

January 2021 (Sampling)

The system was operational upon arrival for the second site visit of January. Samples were collected. The system was operational upon departure.

February 2021 (Non-Sampling)

During the February site visit, the effluent pump was inoperable. This caused the system to be down upon arrival. This visit was prompted by the necessity of assisting Ramboll with the deployment of passive diffusion sampling bags in the RW-3D well. In order to deploy the bags, the pump, electrical, and control items were removed from RW-3D prior to deployment. The system remained down upon departure.

March 2021 (Non-Sampling)

During the March site visit, the system was down upon arrival, again due to the effluent pump being inoperable. A replacement pump was installed, and the system was restarted. Additionally, during this visit LaBella assisted Ramboll in operating a drawdown test. The system was operational upon departure.

April 2021 (Sampling)

The system was operational upon arrival for the first site visit of April. Samples were collected. The system was operational upon departure.

April 2021 (Non-Sampling)

During the second April site visit, no samples were collected. Bag filters were changed. The system was operational upon arrival and departure.

May 2021 (Sampling)

The system was down upon arrival for the first site visit of May. The discharge pump was cleaned, and the system was restarted. Samples were taken. The system was operational upon departure.

May 2021 (Non-Sampling)

During the second May site visit, no samples were collected. Bag filters were changed. The system was operational upon arrival and departure.

June 2021 (Sampling)

The system was operational upon arrival for the first site visit of June. Samples were collected. The system was operational upon departure.

**June 2021 (Non-Sampling)**

During the second May site visit, no samples were collected. Bag filters were changed and a replacement fire hydrant was installed (the prior had expired). The system was operational upon arrival and departure.

Summary and Recommendations

Site visits and system sampling continue on a bi-monthly basis. During each non-sampling site visit, bag filters are replaced and valves are cleaned. Additionally, system performance readings as well as water level readings are taken. Samples are collected from the RW-3D, and effluent sampling ports at the first site visit of the month.

LaBella recommends continuing the treatment of recovered groundwater at the site utilizing air stripper treatment system. Further recommendations are outlined in the sites periodic review.

LaBella would like to thank you for the opportunity to offer our services for this site.

If you have any questions or comments regarding the information contained herein, please contact our office at 518-885-5383.

Respectfully submitted,

LaBella Associates

Sabrina Campfield
Project Manager

ATTACHMENTS:

Laboratory Analytical Reports
Figure 1



January 2021 Analytical Data

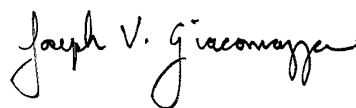
ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-180405-1
Client Project/Site: COSCO #344035

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Robert Strang



Authorized for release by:
1/28/2021 2:08:18 PM
Joe Giacomazza, Project Manager I
joe.giacomazza@testamericainc.com
Designee for
Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

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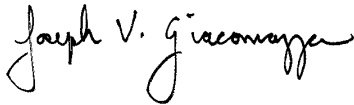
www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Manager I
1/28/2021 2:08:18 PM



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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Qualifiers

GC/MS VOA

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Job ID: 480-180405-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-180405-1

Comments

No additional comments.

Receipt

The sample was received on 1/20/2021 9:00 AM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

GC/MS VOA

Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: RW-3D (480-180405-1). Elevated reporting limits (RLs) are provided.

Method 624.1: Reanalysis of the following sample was performed outside of the analytical holding time due to the sample E-Flagging during initial analysis: RW-3D (480-180405-1).

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

General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RW-3D (480-180405-1).

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

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Client Sample ID: RW-3D

Lab Sample ID: 480-180405-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total - DL	220	H	50	16	ug/L	5		624.1	Total/NA
Tetrachloroethene - DL	410	H	25	1.7	ug/L	5		624.1	Total/NA
Trichloroethene - DL	410	H	25	3.0	ug/L	5		624.1	Total/NA
pH	7.39	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	15.5	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	796		10.0	4.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Client Sample ID: RW-3D

Lab Sample ID: 480-180405-1

Date Collected: 01/19/21 10:30

Matrix: Water

Date Received: 01/20/21 09:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			01/21/21 14:12	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.26	ug/L			01/21/21 14:12	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			01/21/21 14:12	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			01/21/21 14:12	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			01/21/21 14:12	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			01/21/21 14:12	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			01/21/21 14:12	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			01/21/21 14:12	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			01/21/21 14:12	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			01/21/21 14:12	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			01/21/21 14:12	1
Acrolein	ND		100	17	ug/L			01/21/21 14:12	1
Acrylonitrile	ND		50	1.9	ug/L			01/21/21 14:12	1
Benzene	ND		5.0	0.60	ug/L			01/21/21 14:12	1
Bromodichloromethane	ND		5.0	0.54	ug/L			01/21/21 14:12	1
Bromoform	ND		5.0	0.47	ug/L			01/21/21 14:12	1
Bromomethane	ND		5.0	1.2	ug/L			01/21/21 14:12	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			01/21/21 14:12	1
Chlorobenzene	ND		5.0	0.48	ug/L			01/21/21 14:12	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			01/21/21 14:12	1
Chloroethane	ND		5.0	0.87	ug/L			01/21/21 14:12	1
Chloroform	ND		5.0	0.54	ug/L			01/21/21 14:12	1
Chloromethane	ND		5.0	0.64	ug/L			01/21/21 14:12	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			01/21/21 14:12	1
Ethylbenzene	ND		5.0	0.46	ug/L			01/21/21 14:12	1
Methylene Chloride	ND		5.0	0.81	ug/L			01/21/21 14:12	1
Toluene	ND		5.0	0.45	ug/L			01/21/21 14:12	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			01/21/21 14:12	1
Vinyl chloride	ND		5.0	0.75	ug/L			01/21/21 14:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 130		01/21/21 14:12	1
4-Bromofluorobenzene (Surr)	97		76 - 123		01/21/21 14:12	1
Dibromofluoromethane (Surr)	106		75 - 123		01/21/21 14:12	1
Toluene-d8 (Surr)	100		77 - 120		01/21/21 14:12	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethene, Total	220	H	50	16	ug/L			01/25/21 12:48	5
Tetrachloroethene	410	H	25	1.7	ug/L			01/25/21 12:48	5
trans-1,2-Dichloroethene	ND	H	25	2.9	ug/L			01/25/21 12:48	5
Trichloroethene	410	H	25	3.0	ug/L			01/25/21 12:48	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 130		01/25/21 12:48	5
4-Bromofluorobenzene (Surr)	103		76 - 123		01/25/21 12:48	5
Dibromofluoromethane (Surr)	101		75 - 123		01/25/21 12:48	5
Toluene-d8 (Surr)	101		77 - 120		01/25/21 12:48	5

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Client Sample ID: RW-3D

Lab Sample ID: 480-180405-1

Date Collected: 01/19/21 10:30

Matrix: Water

Date Received: 01/20/21 09:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	796		10.0	4.0	mg/L			01/22/21 14:20	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.39	HF	0.100	0.100	SU			01/23/21 11:05	1
Temperature	15.5	HF	0.00100	0.00100	Degrees C			01/23/21 11:05	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(68-130)	(76-123)	(75-123)	(77-120)
480-180405-1	RW-3D	105	97	106	100
480-180405-1 - DL	RW-3D	99	103	101	101
LCS 480-566858/5	Lab Control Sample	99	110	100	105
LCS 480-567101/6	Lab Control Sample	105	106	105	104
MB 480-566858/7	Method Blank	108	102	107	104
MB 480-567101/8	Method Blank	110	102	106	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-566858/7

Matrix: Water

Analysis Batch: 566858

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			01/21/21 11:54	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.26	ug/L			01/21/21 11:54	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			01/21/21 11:54	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			01/21/21 11:54	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			01/21/21 11:54	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			01/21/21 11:54	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			01/21/21 11:54	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			01/21/21 11:54	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			01/21/21 11:54	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			01/21/21 11:54	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			01/21/21 11:54	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			01/21/21 11:54	1
Acrolein	ND		100	17	ug/L			01/21/21 11:54	1
Acrylonitrile	ND		50	1.9	ug/L			01/21/21 11:54	1
Benzene	ND		5.0	0.60	ug/L			01/21/21 11:54	1
Bromodichloromethane	ND		5.0	0.54	ug/L			01/21/21 11:54	1
Bromoform	ND		5.0	0.47	ug/L			01/21/21 11:54	1
Bromomethane	ND		5.0	1.2	ug/L			01/21/21 11:54	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			01/21/21 11:54	1
Chlorobenzene	ND		5.0	0.48	ug/L			01/21/21 11:54	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			01/21/21 11:54	1
Chloroethane	ND		5.0	0.87	ug/L			01/21/21 11:54	1
Chloroform	ND		5.0	0.54	ug/L			01/21/21 11:54	1
Chloromethane	ND		5.0	0.64	ug/L			01/21/21 11:54	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			01/21/21 11:54	1
Ethylbenzene	ND		5.0	0.46	ug/L			01/21/21 11:54	1
Methylene Chloride	ND		5.0	0.81	ug/L			01/21/21 11:54	1
Tetrachloroethene	ND		5.0	0.34	ug/L			01/21/21 11:54	1
Toluene	ND		5.0	0.45	ug/L			01/21/21 11:54	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			01/21/21 11:54	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			01/21/21 11:54	1
Trichloroethene	ND		5.0	0.60	ug/L			01/21/21 11:54	1
Vinyl chloride	ND		5.0	0.75	ug/L			01/21/21 11:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 130		01/21/21 11:54	1
4-Bromofluorobenzene (Surr)	102		76 - 123		01/21/21 11:54	1
Dibromofluoromethane (Surr)	107		75 - 123		01/21/21 11:54	1
Toluene-d8 (Surr)	104		77 - 120		01/21/21 11:54	1

Lab Sample ID: LCS 480-566858/5

Matrix: Water

Analysis Batch: 566858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	15.7		ug/L		78	52 - 162
1,1,2,2-Tetrachloroethane	20.0	16.2		ug/L		81	46 - 157
1,1,2-Trichloroethane	20.0	16.6		ug/L		83	52 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-566858/5

Matrix: Water

Analysis Batch: 566858

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	15.0		ug/L		75	59 - 155
1,1-Dichloroethene	20.0	15.5		ug/L		77	1 - 234
1,2-Dichlorobenzene	20.0	15.5		ug/L		77	18 - 190
1,2-Dichloroethane	20.0	16.5		ug/L		82	49 - 155
1,2-Dichloropropane	20.0	15.5		ug/L		77	1 - 210
1,3-Dichlorobenzene	20.0	16.0		ug/L		80	59 - 156
1,4-Dichlorobenzene	20.0	16.0		ug/L		80	18 - 190
2-Chloroethyl vinyl ether	20.0	16.8	J	ug/L		84	1 - 305
Benzene	20.0	15.7		ug/L		78	37 - 151
Bromodichloromethane	20.0	15.3		ug/L		77	35 - 155
Bromoform	20.0	16.6		ug/L		83	45 - 169
Bromomethane	20.0	17.2		ug/L		86	1 - 242
Carbon tetrachloride	20.0	15.9		ug/L		80	70 - 140
Chlorobenzene	20.0	15.9		ug/L		80	37 - 160
Chlorodibromomethane	20.0	17.3		ug/L		86	53 - 149
Chloroethane	20.0	17.1		ug/L		85	14 - 230
Chloroform	20.0	15.9		ug/L		79	51 - 138
Chloromethane	20.0	19.2		ug/L		96	1 - 273
cis-1,3-Dichloropropene	20.0	15.8		ug/L		79	1 - 227
Ethylbenzene	20.0	15.7		ug/L		79	37 - 162
Methylene Chloride	20.0	15.7		ug/L		78	1 - 221
Tetrachloroethene	20.0	16.1		ug/L		80	64 - 148
Toluene	20.0	16.0		ug/L		80	47 - 150
trans-1,2-Dichloroethene	20.0	15.2		ug/L		76	54 - 156
trans-1,3-Dichloropropene	20.0	17.0		ug/L		85	17 - 183
Trichloroethene	20.0	15.9		ug/L		80	71 - 157
Vinyl chloride	20.0	17.6		ug/L		88	1 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		68 - 130
4-Bromofluorobenzene (Surr)	110		76 - 123
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	105		77 - 120

Lab Sample ID: MB 480-567101/8

Matrix: Water

Analysis Batch: 567101

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			01/25/21 11:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			01/25/21 11:17	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			01/25/21 11:17	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			01/25/21 11:17	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			01/25/21 11:17	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			01/25/21 11:17	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			01/25/21 11:17	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			01/25/21 11:17	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			01/25/21 11:17	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-567101/8

Matrix: Water

Analysis Batch: 567101

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			01/25/21 11:17	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			01/25/21 11:17	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			01/25/21 11:17	1
Acrolein	ND		100	17	ug/L			01/25/21 11:17	1
Acrylonitrile	ND		50	1.9	ug/L			01/25/21 11:17	1
Benzene	ND		5.0	0.60	ug/L			01/25/21 11:17	1
Bromodichloromethane	ND		5.0	0.54	ug/L			01/25/21 11:17	1
Bromoform	ND		5.0	0.47	ug/L			01/25/21 11:17	1
Bromomethane	ND		5.0	1.2	ug/L			01/25/21 11:17	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			01/25/21 11:17	1
Chlorobenzene	ND		5.0	0.48	ug/L			01/25/21 11:17	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			01/25/21 11:17	1
Chloroethane	ND		5.0	0.87	ug/L			01/25/21 11:17	1
Chloroform	ND		5.0	0.54	ug/L			01/25/21 11:17	1
Chloromethane	ND		5.0	0.64	ug/L			01/25/21 11:17	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			01/25/21 11:17	1
Ethylbenzene	ND		5.0	0.46	ug/L			01/25/21 11:17	1
Methylene Chloride	ND		5.0	0.81	ug/L			01/25/21 11:17	1
Tetrachloroethene	ND		5.0	0.34	ug/L			01/25/21 11:17	1
Toluene	ND		5.0	0.45	ug/L			01/25/21 11:17	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			01/25/21 11:17	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			01/25/21 11:17	1
Trichloroethene	ND		5.0	0.60	ug/L			01/25/21 11:17	1
Vinyl chloride	ND		5.0	0.75	ug/L			01/25/21 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 130		01/25/21 11:17	1
4-Bromofluorobenzene (Surr)	102		76 - 123		01/25/21 11:17	1
Dibromofluoromethane (Surr)	106		75 - 123		01/25/21 11:17	1
Toluene-d8 (Surr)	101		77 - 120		01/25/21 11:17	1

Lab Sample ID: LCS 480-567101/6

Matrix: Water

Analysis Batch: 567101

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.4		ug/L		107	52 - 162
1,1,2,2-Tetrachloroethane	20.0	20.5		ug/L		103	46 - 157
1,1,2-Trichloroethane	20.0	21.2		ug/L		106	52 - 150
1,1-Dichloroethane	20.0	20.4		ug/L		102	59 - 155
1,1-Dichloroethene	20.0	20.2		ug/L		101	1 - 234
1,2-Dichlorobenzene	20.0	20.3		ug/L		101	18 - 190
1,2-Dichloroethane	20.0	21.8		ug/L		109	49 - 155
1,2-Dichloropropane	20.0	20.8		ug/L		104	1 - 210
1,3-Dichlorobenzene	20.0	20.4		ug/L		102	59 - 156
1,4-Dichlorobenzene	20.0	20.4		ug/L		102	18 - 190
2-Chloroethyl vinyl ether	20.0	22.6	J	ug/L		113	1 - 305
Benzene	20.0	20.6		ug/L		103	37 - 151

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-567101/6

Matrix: Water

Analysis Batch: 567101

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	20.0	21.6		ug/L		108	35 - 155
Bromoform	20.0	21.6		ug/L		108	45 - 169
Bromomethane	20.0	19.4		ug/L		97	1 - 242
Carbon tetrachloride	20.0	21.5		ug/L		107	70 - 140
Chlorobenzene	20.0	20.5		ug/L		102	37 - 160
Chlorodibromomethane	20.0	21.1		ug/L		105	53 - 149
Chloroethane	20.0	19.0		ug/L		95	14 - 230
Chloroform	20.0	20.2		ug/L		101	51 - 138
Chloromethane	20.0	20.1		ug/L		100	1 - 273
cis-1,3-Dichloropropene	20.0	20.8		ug/L		104	1 - 227
Ethylbenzene	20.0	21.2		ug/L		106	37 - 162
Methylene Chloride	20.0	20.5		ug/L		102	1 - 221
Tetrachloroethene	20.0	20.4		ug/L		102	64 - 148
Toluene	20.0	20.8		ug/L		104	47 - 150
trans-1,2-Dichloroethene	20.0	19.9		ug/L		100	54 - 156
trans-1,3-Dichloropropene	20.0	21.4		ug/L		107	17 - 183
Trichloroethene	20.0	20.5		ug/L		103	71 - 157
Vinyl chloride	20.0	19.2		ug/L		96	1 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		68 - 130
4-Bromofluorobenzene (Surr)	106		76 - 123
Dibromofluoromethane (Surr)	105		75 - 123
Toluene-d8 (Surr)	104		77 - 120

Method: 9040C - pH

Lab Sample ID: LCS 480-567066/1

Matrix: Water

Analysis Batch: 567066

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.050		SU		101	99 - 101

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

Lab Sample ID: MB 480-567032/1

Matrix: Water

Analysis Batch: 567032

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			01/22/21 14:20	1

Lab Sample ID: LCS 480-567032/2

Matrix: Water

Analysis Batch: 567032

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	503	500.0		mg/L		99	85 - 115

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

GC/MS VOA

Analysis Batch: 566858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180405-1	RW-3D	Total/NA	Water	624.1	
MB 480-566858/7	Method Blank	Total/NA	Water	624.1	
LCS 480-566858/5	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 567101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180405-1 - DL	RW-3D	Total/NA	Water	624.1	
MB 480-567101/8	Method Blank	Total/NA	Water	624.1	
LCS 480-567101/6	Lab Control Sample	Total/NA	Water	624.1	

General Chemistry

Analysis Batch: 567032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180405-1	RW-3D	Total/NA	Water	SM 2540C	
MB 480-567032/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-567032/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 567066

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-180405-1	RW-3D	Total/NA	Water	9040C	
LCS 480-567066/1	Lab Control Sample	Total/NA	Water	9040C	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Client Sample ID: RW-3D

Date Collected: 01/19/21 10:30

Date Received: 01/20/21 09:00

Lab Sample ID: 480-180405-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	566858	01/21/21 14:12	WJD	TAL BUF
Total/NA	Analysis	624.1	DL	5	567101	01/25/21 12:48	WJD	TAL BUF
Total/NA	Analysis	9040C		1	567066	01/23/21 11:05	KMF	TAL BUF
Total/NA	Analysis	SM 2540C		1	567032	01/22/21 14:20	CSS	TAL BUF

Laboratory References:
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

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

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
9040C		Water	pH
9040C		Water	Temperature

Method Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-180405-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-180405-1	RW-3D	Water	01/19/21 10:30	01/20/21 09:00	

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Chain of Custody Record

Client Information Client Contact: Andrew Talbot Company: Aztech Technologies Inc Address: 5 McCrea Hill Road City: Ballston Spa State: NY Zip: 12020 Phone:		Lab Pk: Stone, Judy L E-Mail: Judy.Stone@Eurofins.com Phone:		Carrier Tracking No(s): 480-149113-21656.1 Page: Page 1 of 1 Job #:		COC No: 480-149113-21656.1	
Due Date Requested: TAT Requested (days): Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: CallOut 136146 WO #: Project #: 48005266 SSOW:		Analysis Requested 2500C - Caled - Total Dissolved Solids 9000B - pH 824 - I, PREC - (MOD) Priority Pollutant Volatiles 824 - I, PREC - (MOD) Priority Pollutant Volatiles					
Sample Identification Sample ID: RW-3D Sample Date: 1/19/2020 1030 Sample Time: 1030 Sample Type: G-grab Matrix: (W-water, G-grab, O-overhead, etc.) Preservation Code: 6 Matrix: Water Matrix: Water		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:					
Special Instructions/Note: 480-180405 Chain of Custody		Special Instructions/Note:					
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months					
Empty Kit Relinquished by: Relinquished by: Carreth Corlew Relinquished by: Polyzade Relinquished by:		Time: Date/Time: 1/19/2020 1530 Date/Time: 1/19/2020 1700 Date/Time:					
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 2.0 #1 ICE					

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-180405-1

Login Number: 180405

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AZTECH
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



March 2021 Analytical Data

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-181811-1
Client Project/Site: COSCO #344035

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Robert Strang



Authorized for release by:
3/19/2021 1:14:00 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com
Designee for
Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Wyatt Watson
Project Management Assistant I
3/19/2021 1:14:00 PM

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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Job ID: 480-181811-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-181811-1

Comments

No additional comments.

Receipt

The samples were received on 3/9/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

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

HPLC/IC

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: DW-1-030821 (480-181811-1), GW-4S-030821 (480-181811-2), GP-4D-030821 (480-181811-3) and DUP-001-030821 (480-181811-4). Elevated reporting limits (RLs) are provided.

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

GC VOA

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

Metals

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

General Chemistry

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

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: DW-1-030821

Lab Sample ID: 480-181811-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.58	J	5.0	0.34	ug/L	1		624.1	Total/NA
Calcium	36.4		0.50	0.10	mg/L	1		6010C	Total/NA
Potassium	1.3		0.50	0.10	mg/L	1		6010C	Total/NA
Magnesium	7.4		0.20	0.043	mg/L	1		6010C	Total/NA
Sodium	140		1.0	0.32	mg/L	1		6010C	Total/NA
Iron	0.065		0.050	0.019	mg/L	1		6010C	Dissolved
Manganese	0.0031	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Chloride	211		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	10.4		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrate as N	1.1		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	122		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Organic Carbon	0.49	J	1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: GW-4S-030821

Lab Sample ID: 480-181811-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	5.8		5.0	0.60	ug/L	1		624.1	Total/NA
Calcium	49.0		0.50	0.10	mg/L	1		6010C	Total/NA
Potassium	1.7		0.50	0.10	mg/L	1		6010C	Total/NA
Magnesium	10.1		0.20	0.043	mg/L	1		6010C	Total/NA
Sodium	121		1.0	0.32	mg/L	1		6010C	Total/NA
Iron	0.15		0.050	0.019	mg/L	1		6010C	Dissolved
Manganese	0.54	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Chloride	184		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	17.3		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrate as N	0.45		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	170		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Organic Carbon	1.6		1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: GP-4D-030821

Lab Sample ID: 480-181811-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	47.8		0.50	0.10	mg/L	1		6010C	Total/NA
Potassium	1.2		0.50	0.10	mg/L	1		6010C	Total/NA
Magnesium	8.4		0.20	0.043	mg/L	1		6010C	Total/NA
Sodium	173		1.0	0.32	mg/L	1		6010C	Total/NA
Iron	0.046	J	0.050	0.019	mg/L	1		6010C	Dissolved
Manganese	0.0023	J B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Chloride	243		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	19.7		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrate as N	3.4		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	147		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Organic Carbon	0.71	J	1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: DUP-001-030821

Lab Sample ID: 480-181811-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	47.6		0.50	0.10	mg/L	1		6010C	Total/NA
Potassium	1.3		0.50	0.10	mg/L	1		6010C	Total/NA
Magnesium	8.3		0.20	0.043	mg/L	1		6010C	Total/NA
Sodium	171		1.0	0.32	mg/L	1		6010C	Total/NA
Iron	0.26		0.050	0.019	mg/L	1		6010C	Dissolved

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: DUP-001-030821 (Continued)

Lab Sample ID: 480-181811-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	0.012	B	0.0030	0.00040	mg/L	1		6010C	Dissolved
Chloride	243		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	19.6		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrate as N	3.4		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	146		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Organic Carbon	0.75	J	1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: TRIPBLANK-030821

Lab Sample ID: 480-181811-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: DW-1-030821

Lab Sample ID: 480-181811-1

Date Collected: 03/08/21 11:40

Matrix: Water

Date Received: 03/09/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/09/21 13:51	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/09/21 13:51	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/09/21 13:51	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/09/21 13:51	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/09/21 13:51	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/09/21 13:51	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/09/21 13:51	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/09/21 13:51	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/09/21 13:51	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/09/21 13:51	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/09/21 13:51	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/09/21 13:51	1
Acrolein	ND		100	17	ug/L			03/09/21 13:51	1
Acrylonitrile	ND		50	1.9	ug/L			03/09/21 13:51	1
Benzene	ND		5.0	0.60	ug/L			03/09/21 13:51	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/09/21 13:51	1
Bromoform	ND		5.0	0.47	ug/L			03/09/21 13:51	1
Bromomethane	ND		5.0	1.2	ug/L			03/09/21 13:51	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/09/21 13:51	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/09/21 13:51	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/09/21 13:51	1
Chloroethane	ND		5.0	0.87	ug/L			03/09/21 13:51	1
Chloroform	ND		5.0	0.54	ug/L			03/09/21 13:51	1
Chloromethane	ND		5.0	0.64	ug/L			03/09/21 13:51	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/09/21 13:51	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/09/21 13:51	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/09/21 13:51	1
Tetrachloroethene	0.58 J		5.0	0.34	ug/L			03/09/21 13:51	1
Toluene	ND		5.0	0.45	ug/L			03/09/21 13:51	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/09/21 13:51	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/09/21 13:51	1
Trichloroethene	ND		5.0	0.60	ug/L			03/09/21 13:51	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/09/21 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 130		03/09/21 13:51	1
4-Bromofluorobenzene (Surr)	99		76 - 123		03/09/21 13:51	1
Dibromofluoromethane (Surr)	98		75 - 123		03/09/21 13:51	1
Toluene-d8 (Surr)	105		77 - 120		03/09/21 13:51	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/10/21 18:46	1
Ethane	ND		7.5	1.5	ug/L			03/10/21 18:46	1
Ethene	ND		7.0	1.5	ug/L			03/10/21 18:46	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	36.4		0.50	0.10	mg/L		03/10/21 09:47	03/11/21 01:19	1
Potassium	1.3		0.50	0.10	mg/L		03/10/21 09:47	03/11/21 01:19	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: DW-1-030821

Lab Sample ID: 480-181811-1

Date Collected: 03/08/21 11:40

Matrix: Water

Date Received: 03/09/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	7.4		0.20	0.043	mg/L		03/10/21 09:47	03/11/21 01:19	1
Sodium	140		1.0	0.32	mg/L		03/10/21 09:47	03/11/21 01:19	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.065		0.050	0.019	mg/L		03/10/21 09:47	03/10/21 23:28	1
Manganese	0.0031	B	0.0030	0.00040	mg/L		03/10/21 09:47	03/10/21 23:28	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	211		2.5	1.4	mg/L			03/11/21 17:43	5
Sulfate	10.4		10.0	1.7	mg/L			03/11/21 17:43	5
Nitrite as N	ND		0.050	0.020	mg/L			03/09/21 18:50	1
Nitrate as N	1.1		0.050	0.020	mg/L			03/09/21 18:50	1
Alkalinity, Total	122		5.0	0.79	mg/L			03/09/21 19:54	1
Sulfide	ND		1.0	0.67	mg/L			03/14/21 13:50	1
Total Organic Carbon	0.49	J	1.0	0.43	mg/L			03/10/21 08:14	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: GW-4S-030821

Lab Sample ID: 480-181811-2

Date Collected: 03/08/21 14:30

Matrix: Water

Date Received: 03/09/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/09/21 14:15	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/09/21 14:15	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/09/21 14:15	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/09/21 14:15	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/09/21 14:15	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/09/21 14:15	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/09/21 14:15	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/09/21 14:15	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/09/21 14:15	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/09/21 14:15	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/09/21 14:15	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/09/21 14:15	1
Acrolein	ND		100	17	ug/L			03/09/21 14:15	1
Acrylonitrile	ND		50	1.9	ug/L			03/09/21 14:15	1
Benzene	ND		5.0	0.60	ug/L			03/09/21 14:15	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/09/21 14:15	1
Bromoform	ND		5.0	0.47	ug/L			03/09/21 14:15	1
Bromomethane	ND		5.0	1.2	ug/L			03/09/21 14:15	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/09/21 14:15	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/09/21 14:15	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/09/21 14:15	1
Chloroethane	ND		5.0	0.87	ug/L			03/09/21 14:15	1
Chloroform	ND		5.0	0.54	ug/L			03/09/21 14:15	1
Chloromethane	ND		5.0	0.64	ug/L			03/09/21 14:15	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/09/21 14:15	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/09/21 14:15	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/09/21 14:15	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/09/21 14:15	1
Toluene	ND		5.0	0.45	ug/L			03/09/21 14:15	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/09/21 14:15	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/09/21 14:15	1
Trichloroethene	5.8		5.0	0.60	ug/L			03/09/21 14:15	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/09/21 14:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 130		03/09/21 14:15	1
4-Bromofluorobenzene (Surr)	112		76 - 123		03/09/21 14:15	1
Dibromofluoromethane (Surr)	99		75 - 123		03/09/21 14:15	1
Toluene-d8 (Surr)	103		77 - 120		03/09/21 14:15	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/10/21 19:05	1
Ethane	ND		7.5	1.5	ug/L			03/10/21 19:05	1
Ethene	ND		7.0	1.5	ug/L			03/10/21 19:05	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	49.0		0.50	0.10	mg/L		03/10/21 09:47	03/11/21 01:37	1
Potassium	1.7		0.50	0.10	mg/L		03/10/21 09:47	03/11/21 01:37	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: GW-4S-030821

Lab Sample ID: 480-181811-2

Date Collected: 03/08/21 14:30

Matrix: Water

Date Received: 03/09/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	10.1		0.20	0.043	mg/L		03/10/21 09:47	03/11/21 01:37	1
Sodium	121		1.0	0.32	mg/L		03/10/21 09:47	03/11/21 01:37	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.15		0.050	0.019	mg/L		03/10/21 09:47	03/10/21 23:32	1
Manganese	0.54	B	0.0030	0.00040	mg/L		03/10/21 09:47	03/10/21 23:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	184		2.5	1.4	mg/L			03/11/21 17:58	5
Sulfate	17.3		10.0	1.7	mg/L			03/11/21 17:58	5
Nitrite as N	ND		0.050	0.020	mg/L			03/09/21 18:51	1
Nitrate as N	0.45		0.050	0.020	mg/L			03/09/21 18:51	1
Alkalinity, Total	170		5.0	0.79	mg/L			03/09/21 20:09	1
Sulfide	ND		1.0	0.67	mg/L			03/14/21 13:50	1
Total Organic Carbon	1.6		1.0	0.43	mg/L			03/10/21 08:31	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: GP-4D-030821

Lab Sample ID: 480-181811-3

Date Collected: 03/08/21 14:30

Matrix: Water

Date Received: 03/09/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/09/21 14:39	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/09/21 14:39	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/09/21 14:39	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/09/21 14:39	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/09/21 14:39	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/09/21 14:39	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/09/21 14:39	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/09/21 14:39	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/09/21 14:39	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/09/21 14:39	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/09/21 14:39	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/09/21 14:39	1
Acrolein	ND		100	17	ug/L			03/09/21 14:39	1
Acrylonitrile	ND		50	1.9	ug/L			03/09/21 14:39	1
Benzene	ND		5.0	0.60	ug/L			03/09/21 14:39	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/09/21 14:39	1
Bromoform	ND		5.0	0.47	ug/L			03/09/21 14:39	1
Bromomethane	ND		5.0	1.2	ug/L			03/09/21 14:39	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/09/21 14:39	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/09/21 14:39	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/09/21 14:39	1
Chloroethane	ND		5.0	0.87	ug/L			03/09/21 14:39	1
Chloroform	ND		5.0	0.54	ug/L			03/09/21 14:39	1
Chloromethane	ND		5.0	0.64	ug/L			03/09/21 14:39	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/09/21 14:39	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/09/21 14:39	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/09/21 14:39	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/09/21 14:39	1
Toluene	ND		5.0	0.45	ug/L			03/09/21 14:39	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/09/21 14:39	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/09/21 14:39	1
Trichloroethene	ND		5.0	0.60	ug/L			03/09/21 14:39	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/09/21 14:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		68 - 130		03/09/21 14:39	1
4-Bromofluorobenzene (Surr)	94		76 - 123		03/09/21 14:39	1
Dibromofluoromethane (Surr)	96		75 - 123		03/09/21 14:39	1
Toluene-d8 (Surr)	95		77 - 120		03/09/21 14:39	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/10/21 19:43	1
Ethane	ND		7.5	1.5	ug/L			03/10/21 19:43	1
Ethene	ND		7.0	1.5	ug/L			03/10/21 19:43	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	47.8		0.50	0.10	mg/L		03/10/21 09:47	03/11/21 01:41	1
Potassium	1.2		0.50	0.10	mg/L		03/10/21 09:47	03/11/21 01:41	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: GP-4D-030821

Lab Sample ID: 480-181811-3

Date Collected: 03/08/21 14:30

Matrix: Water

Date Received: 03/09/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	8.4		0.20	0.043	mg/L		03/10/21 09:47	03/11/21 01:41	1
Sodium	173		1.0	0.32	mg/L		03/10/21 09:47	03/11/21 01:41	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.046	J	0.050	0.019	mg/L		03/10/21 09:47	03/11/21 00:01	1
Manganese	0.0023	J B	0.0030	0.00040	mg/L		03/10/21 09:47	03/11/21 00:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	243		2.5	1.4	mg/L			03/11/21 19:25	5
Sulfate	19.7		10.0	1.7	mg/L			03/11/21 19:25	5
Nitrite as N	ND		0.050	0.020	mg/L			03/09/21 18:53	1
Nitrate as N	3.4		0.050	0.020	mg/L			03/09/21 18:53	1
Alkalinity, Total	147		5.0	0.79	mg/L			03/09/21 20:22	1
Sulfide	ND		1.0	0.67	mg/L			03/14/21 13:50	1
Total Organic Carbon	0.71	J	1.0	0.43	mg/L			03/10/21 08:47	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: DUP-001-030821

Lab Sample ID: 480-181811-4

Date Collected: 03/08/21 00:00

Matrix: Water

Date Received: 03/09/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/09/21 15:02	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/09/21 15:02	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/09/21 15:02	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/09/21 15:02	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/09/21 15:02	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/09/21 15:02	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/09/21 15:02	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/09/21 15:02	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/09/21 15:02	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/09/21 15:02	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/09/21 15:02	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/09/21 15:02	1
Acrolein	ND		100	17	ug/L			03/09/21 15:02	1
Acrylonitrile	ND		50	1.9	ug/L			03/09/21 15:02	1
Benzene	ND		5.0	0.60	ug/L			03/09/21 15:02	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/09/21 15:02	1
Bromoform	ND		5.0	0.47	ug/L			03/09/21 15:02	1
Bromomethane	ND		5.0	1.2	ug/L			03/09/21 15:02	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/09/21 15:02	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/09/21 15:02	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/09/21 15:02	1
Chloroethane	ND		5.0	0.87	ug/L			03/09/21 15:02	1
Chloroform	ND		5.0	0.54	ug/L			03/09/21 15:02	1
Chloromethane	ND		5.0	0.64	ug/L			03/09/21 15:02	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/09/21 15:02	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/09/21 15:02	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/09/21 15:02	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/09/21 15:02	1
Toluene	ND		5.0	0.45	ug/L			03/09/21 15:02	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/09/21 15:02	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/09/21 15:02	1
Trichloroethene	ND		5.0	0.60	ug/L			03/09/21 15:02	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/09/21 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		68 - 130		03/09/21 15:02	1
4-Bromofluorobenzene (Surr)	104		76 - 123		03/09/21 15:02	1
Dibromofluoromethane (Surr)	95		75 - 123		03/09/21 15:02	1
Toluene-d8 (Surr)	97		77 - 120		03/09/21 15:02	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/10/21 20:01	1
Ethane	ND		7.5	1.5	ug/L			03/10/21 20:01	1
Ethene	ND		7.0	1.5	ug/L			03/10/21 20:01	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	47.6		0.50	0.10	mg/L		03/10/21 09:47	03/11/21 01:45	1
Potassium	1.3		0.50	0.10	mg/L		03/10/21 09:47	03/11/21 01:45	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: DUP-001-030821

Lab Sample ID: 480-181811-4

Date Collected: 03/08/21 00:00

Matrix: Water

Date Received: 03/09/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	8.3		0.20	0.043	mg/L		03/10/21 09:47	03/11/21 01:45	1
Sodium	171		1.0	0.32	mg/L		03/10/21 09:47	03/11/21 01:45	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.26		0.050	0.019	mg/L		03/10/21 09:47	03/11/21 00:05	1
Manganese	0.012	B	0.0030	0.00040	mg/L		03/10/21 09:47	03/11/21 00:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	243		2.5	1.4	mg/L			03/11/21 19:40	5
Sulfate	19.6		10.0	1.7	mg/L			03/11/21 19:40	5
Nitrite as N	ND		0.050	0.020	mg/L			03/09/21 18:54	1
Nitrate as N	3.4		0.050	0.020	mg/L			03/09/21 18:54	1
Alkalinity, Total	146		5.0	0.79	mg/L			03/09/21 20:28	1
Sulfide	ND		1.0	0.67	mg/L			03/14/21 13:50	1
Total Organic Carbon	0.75	J	1.0	0.43	mg/L			03/10/21 09:02	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: TRIPBLANK-030821

Lab Sample ID: 480-181811-5

Date Collected: 03/08/21 00:00

Matrix: Water

Date Received: 03/09/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/09/21 15:26	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/09/21 15:26	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/09/21 15:26	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/09/21 15:26	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/09/21 15:26	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/09/21 15:26	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/09/21 15:26	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/09/21 15:26	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/09/21 15:26	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/09/21 15:26	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/09/21 15:26	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/09/21 15:26	1
Acrolein	ND		100	17	ug/L			03/09/21 15:26	1
Acrylonitrile	ND		50	1.9	ug/L			03/09/21 15:26	1
Benzene	ND		5.0	0.60	ug/L			03/09/21 15:26	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/09/21 15:26	1
Bromoform	ND		5.0	0.47	ug/L			03/09/21 15:26	1
Bromomethane	ND		5.0	1.2	ug/L			03/09/21 15:26	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/09/21 15:26	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/09/21 15:26	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/09/21 15:26	1
Chloroethane	ND		5.0	0.87	ug/L			03/09/21 15:26	1
Chloroform	ND		5.0	0.54	ug/L			03/09/21 15:26	1
Chloromethane	ND		5.0	0.64	ug/L			03/09/21 15:26	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/09/21 15:26	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/09/21 15:26	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/09/21 15:26	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/09/21 15:26	1
Toluene	ND		5.0	0.45	ug/L			03/09/21 15:26	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/09/21 15:26	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/09/21 15:26	1
Trichloroethene	ND		5.0	0.60	ug/L			03/09/21 15:26	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/09/21 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 130		03/09/21 15:26	1
4-Bromofluorobenzene (Surr)	100		76 - 123		03/09/21 15:26	1
Dibromofluoromethane (Surr)	103		75 - 123		03/09/21 15:26	1
Toluene-d8 (Surr)	93		77 - 120		03/09/21 15:26	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (68-130)	BFB (76-123)	DBFM (75-123)	TOL (77-120)
480-181811-1	DW-1-030821	99	99	98	105
480-181811-2	GW-4S-030821	92	112	99	103
480-181811-3	GP-4D-030821	88	94	96	95
480-181811-4	DUP-001-030821	82	104	95	97
480-181811-5	TRIPBLANK-030821	99	100	103	93
LCS 480-571782/5	Lab Control Sample	87	90	95	88
MB 480-571782/7	Method Blank	92	98	106	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-571782/7

Matrix: Water

Analysis Batch: 571782

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/09/21 11:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/09/21 11:00	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/09/21 11:00	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/09/21 11:00	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/09/21 11:00	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/09/21 11:00	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/09/21 11:00	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/09/21 11:00	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/09/21 11:00	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/09/21 11:00	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/09/21 11:00	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/09/21 11:00	1
Acrolein	ND		100	17	ug/L			03/09/21 11:00	1
Acrylonitrile	ND		50	1.9	ug/L			03/09/21 11:00	1
Benzene	ND		5.0	0.60	ug/L			03/09/21 11:00	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/09/21 11:00	1
Bromoform	ND		5.0	0.47	ug/L			03/09/21 11:00	1
Bromomethane	ND		5.0	1.2	ug/L			03/09/21 11:00	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/09/21 11:00	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/09/21 11:00	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/09/21 11:00	1
Chloroethane	ND		5.0	0.87	ug/L			03/09/21 11:00	1
Chloroform	ND		5.0	0.54	ug/L			03/09/21 11:00	1
Chloromethane	ND		5.0	0.64	ug/L			03/09/21 11:00	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/09/21 11:00	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/09/21 11:00	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/09/21 11:00	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/09/21 11:00	1
Toluene	ND		5.0	0.45	ug/L			03/09/21 11:00	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/09/21 11:00	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/09/21 11:00	1
Trichloroethene	ND		5.0	0.60	ug/L			03/09/21 11:00	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/09/21 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 130		03/09/21 11:00	1
4-Bromofluorobenzene (Surr)	98		76 - 123		03/09/21 11:00	1
Dibromofluoromethane (Surr)	106		75 - 123		03/09/21 11:00	1
Toluene-d8 (Surr)	98		77 - 120		03/09/21 11:00	1

Lab Sample ID: LCS 480-571782/5

Matrix: Water

Analysis Batch: 571782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.5		ug/L		92	52 - 162
1,1,2,2-Tetrachloroethane	20.0	21.0		ug/L		105	46 - 157
1,1,2-Trichloroethane	20.0	18.7		ug/L		94	52 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-571782/5

Matrix: Water

Analysis Batch: 571782

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	18.4		ug/L		92	59 - 155
1,1-Dichloroethene	20.0	20.5		ug/L		102	1 - 234
1,2-Dichlorobenzene	20.0	20.7		ug/L		104	18 - 190
1,2-Dichloroethane	20.0	18.4		ug/L		92	49 - 155
1,2-Dichloropropane	20.0	19.0		ug/L		95	1 - 210
1,3-Dichlorobenzene	20.0	20.3		ug/L		102	59 - 156
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	18 - 190
2-Chloroethyl vinyl ether	20.0	18.7	J	ug/L		94	1 - 305
Benzene	20.0	18.6		ug/L		93	37 - 151
Bromodichloromethane	20.0	18.8		ug/L		94	35 - 155
Bromoform	20.0	18.3		ug/L		91	45 - 169
Bromomethane	20.0	18.6		ug/L		93	1 - 242
Carbon tetrachloride	20.0	17.8		ug/L		89	70 - 140
Chlorobenzene	20.0	19.6		ug/L		98	37 - 160
Chlorodibromomethane	20.0	20.1		ug/L		101	53 - 149
Chloroethane	20.0	18.9		ug/L		94	14 - 230
Chloroform	20.0	18.3		ug/L		92	51 - 138
Chloromethane	20.0	18.4		ug/L		92	1 - 273
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	1 - 227
Ethylbenzene	20.0	20.0		ug/L		100	37 - 162
Methylene Chloride	20.0	19.5		ug/L		98	1 - 221
Tetrachloroethene	20.0	18.6		ug/L		93	64 - 148
Toluene	20.0	17.3		ug/L		87	47 - 150
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	54 - 156
trans-1,3-Dichloropropene	20.0	18.1		ug/L		91	17 - 183
Trichloroethene	20.0	19.6		ug/L		98	71 - 157
Vinyl chloride	20.0	17.9		ug/L		89	1 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		68 - 130
4-Bromofluorobenzene (Surr)	90		76 - 123
Dibromofluoromethane (Surr)	95		75 - 123
Toluene-d8 (Surr)	88		77 - 120

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-572034/3

Matrix: Water

Analysis Batch: 572034

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/10/21 15:15	1
Ethane	ND		7.5	1.5	ug/L			03/10/21 15:15	1
Ethene	ND		7.0	1.5	ug/L			03/10/21 15:15	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCS 480-572034/4

Matrix: Water

Analysis Batch: 572034

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	19.2	18.4		ug/L		96	85 - 120
Ethane	36.8	34.6		ug/L		94	79 - 120
Ethene	33.7	31.1		ug/L		92	85 - 120

Lab Sample ID: LCSD 480-572034/5

Matrix: Water

Analysis Batch: 572034

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	19.2	18.5		ug/L		96	85 - 120	1	50
Ethane	36.8	34.8		ug/L		95	79 - 120	1	50
Ethene	33.7	32.0		ug/L		95	85 - 120	3	50

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-571921/1-A

Matrix: Water

Analysis Batch: 572143

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 571921

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50	0.10	mg/L		03/10/21 09:47	03/11/21 01:01	1
Potassium	ND		0.50	0.10	mg/L		03/10/21 09:47	03/11/21 01:01	1
Magnesium	ND		0.20	0.043	mg/L		03/10/21 09:47	03/11/21 01:01	1
Sodium	ND		1.0	0.32	mg/L		03/10/21 09:47	03/11/21 01:01	1

Lab Sample ID: LCS 480-571921/2-A

Matrix: Water

Analysis Batch: 572143

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 571921

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	10.0	9.57		mg/L		96	80 - 120
Potassium	10.0	10.22		mg/L		102	80 - 120
Magnesium	10.0	9.49		mg/L		95	80 - 120
Sodium	10.0	10.04		mg/L		100	80 - 120

Lab Sample ID: 480-181811-1 MS

Matrix: Water

Analysis Batch: 572143

Client Sample ID: DW-1-030821

Prep Type: Total/NA

Prep Batch: 571921

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	36.4		10.0	45.40		mg/L		90	75 - 125
Potassium	1.3		10.0	11.84		mg/L		106	75 - 125
Magnesium	7.4		10.0	17.05		mg/L		96	75 - 125
Sodium	140		10.0	150.3	4	mg/L		101	75 - 125

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

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

Lab Sample ID: 480-181811-1 MSD

Matrix: Water

Analysis Batch: 572143

Client Sample ID: DW-1-030821

Prep Type: Total/NA

Prep Batch: 571921

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	36.4		10.0	45.32		mg/L		89	75 - 125	0	20
Potassium	1.3		10.0	11.90		mg/L		106	75 - 125	0	20
Magnesium	7.4		10.0	16.96		mg/L		96	75 - 125	1	20
Sodium	140		10.0	151.2	4	mg/L		110	75 - 125	1	20

Lab Sample ID: MB 480-571925/1-A

Matrix: Water

Analysis Batch: 572128

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 571925

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		03/10/21 09:47	03/10/21 23:20	1
Manganese	0.00257	J	0.0030	0.00040	mg/L		03/10/21 09:47	03/10/21 23:20	1

Lab Sample ID: LCS 480-571925/2-A

Matrix: Water

Analysis Batch: 572128

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 571925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.22		mg/L		102	80 - 120
Manganese	0.200	0.211		mg/L		105	80 - 120

Lab Sample ID: 480-181811-2 MS

Matrix: Water

Analysis Batch: 572128

Client Sample ID: GW-4S-030821

Prep Type: Dissolved

Prep Batch: 571925

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	0.15		10.0	10.15		mg/L		100	75 - 125
Manganese	0.54	B	0.200	0.761		mg/L		110	75 - 125

Lab Sample ID: 480-181811-2 MSD

Matrix: Water

Analysis Batch: 572128

Client Sample ID: GW-4S-030821

Prep Type: Dissolved

Prep Batch: 571925

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	0.15		10.0	10.03		mg/L		99	75 - 125	1	20
Manganese	0.54	B	0.200	0.754		mg/L		106	75 - 125	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-572156/28

Matrix: Water

Analysis Batch: 572156

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			03/11/21 19:11	1
Sulfate	ND		2.0	0.35	mg/L			03/11/21 19:11	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 480-572156/4

Matrix: Water

Analysis Batch: 572156

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			03/11/21 13:20	1
Sulfate	ND		2.0	0.35	mg/L			03/11/21 13:20	1

Lab Sample ID: LCS 480-572156/27

Matrix: Water

Analysis Batch: 572156

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.06		mg/L		100	90 - 110
Sulfate	50.0	49.63		mg/L		99	90 - 110

Lab Sample ID: LCS 480-572156/3

Matrix: Water

Analysis Batch: 572156

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	49.82		mg/L		100	90 - 110
Sulfate	50.0	51.19		mg/L		102	90 - 110

Lab Sample ID: 480-181811-2 MS

Matrix: Water

Analysis Batch: 572156

Client Sample ID: GW-4S-030821

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	184		250	419.2		mg/L		94	81 - 120
Sulfate	17.3		250	257.9		mg/L		96	80 - 120

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-571898/3

Matrix: Water

Analysis Batch: 571898

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.050	0.020	mg/L			03/09/21 18:46	1

Lab Sample ID: LCS 480-571898/4

Matrix: Water

Analysis Batch: 571898

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	1.50	1.54		mg/L		103	90 - 110

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-571987/28

Matrix: Water

Analysis Batch: 571987

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			03/09/21 19:26	1

Lab Sample ID: LCS 480-571987/29

Matrix: Water

Analysis Batch: 571987

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	98.24		mg/L		98	90 - 110

Lab Sample ID: 480-181811-1 MS

Matrix: Water

Analysis Batch: 571987

Client Sample ID: DW-1-030821

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	122		100	184.5		mg/L		62	60 - 140

Lab Sample ID: 480-181811-2 DU

Matrix: Water

Analysis Batch: 571987

Client Sample ID: GW-4S-030821

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity, Total	170			168.7		mg/L		0.8	20

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-572450/3

Matrix: Water

Analysis Batch: 572450

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			03/14/21 13:50	1

Lab Sample ID: LCS 480-572450/4

Matrix: Water

Analysis Batch: 572450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	7.80	7.60		mg/L		97	90 - 110

Lab Sample ID: 480-181811-1 MS

Matrix: Water

Analysis Batch: 572450

Client Sample ID: DW-1-030821

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	ND		2.20	2.40		mg/L		109	40 - 150

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QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

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

Lab Sample ID: MB 480-572007/27

Matrix: Water

Analysis Batch: 572007

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			03/10/21 03:45	1

Lab Sample ID: LCS 480-572007/28

Matrix: Water

Analysis Batch: 572007

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	63.83		mg/L		106	90 - 110

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

GC/MS VOA

Analysis Batch: 571782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-1	DW-1-030821	Total/NA	Water	624.1	
480-181811-2	GW-4S-030821	Total/NA	Water	624.1	
480-181811-3	GP-4D-030821	Total/NA	Water	624.1	
480-181811-4	DUP-001-030821	Total/NA	Water	624.1	
480-181811-5	TRIPBLANK-030821	Total/NA	Water	624.1	
MB 480-571782/7	Method Blank	Total/NA	Water	624.1	
LCS 480-571782/5	Lab Control Sample	Total/NA	Water	624.1	

GC VOA

Analysis Batch: 572034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-1	DW-1-030821	Total/NA	Water	RSK-175	
480-181811-2	GW-4S-030821	Total/NA	Water	RSK-175	
480-181811-3	GP-4D-030821	Total/NA	Water	RSK-175	
480-181811-4	DUP-001-030821	Total/NA	Water	RSK-175	
MB 480-572034/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-572034/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-572034/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 571921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-1	DW-1-030821	Total/NA	Water	3005A	
480-181811-2	GW-4S-030821	Total/NA	Water	3005A	
480-181811-3	GP-4D-030821	Total/NA	Water	3005A	
480-181811-4	DUP-001-030821	Total/NA	Water	3005A	
MB 480-571921/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-571921/2-A	Lab Control Sample	Total/NA	Water	3005A	
480-181811-1 MS	DW-1-030821	Total/NA	Water	3005A	
480-181811-1 MSD	DW-1-030821	Total/NA	Water	3005A	

Prep Batch: 571925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-1	DW-1-030821	Dissolved	Water	3005A	
480-181811-2	GW-4S-030821	Dissolved	Water	3005A	
480-181811-3	GP-4D-030821	Dissolved	Water	3005A	
480-181811-4	DUP-001-030821	Dissolved	Water	3005A	
MB 480-571925/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 480-571925/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
480-181811-2 MS	GW-4S-030821	Dissolved	Water	3005A	
480-181811-2 MSD	GW-4S-030821	Dissolved	Water	3005A	

Analysis Batch: 572128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-1	DW-1-030821	Dissolved	Water	6010C	571925
480-181811-2	GW-4S-030821	Dissolved	Water	6010C	571925
480-181811-3	GP-4D-030821	Dissolved	Water	6010C	571925
480-181811-4	DUP-001-030821	Dissolved	Water	6010C	571925
MB 480-571925/1-A	Method Blank	Total Recoverable	Water	6010C	571925
LCS 480-571925/2-A	Lab Control Sample	Total Recoverable	Water	6010C	571925

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Metals (Continued)

Analysis Batch: 572128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-2 MS	GW-4S-030821	Dissolved	Water	6010C	571925
480-181811-2 MSD	GW-4S-030821	Dissolved	Water	6010C	571925

Analysis Batch: 572143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-1	DW-1-030821	Total/NA	Water	6010C	571921
480-181811-2	GW-4S-030821	Total/NA	Water	6010C	571921
480-181811-3	GP-4D-030821	Total/NA	Water	6010C	571921
480-181811-4	DUP-001-030821	Total/NA	Water	6010C	571921
MB 480-571921/1-A	Method Blank	Total/NA	Water	6010C	571921
LCS 480-571921/2-A	Lab Control Sample	Total/NA	Water	6010C	571921
480-181811-1 MS	DW-1-030821	Total/NA	Water	6010C	571921
480-181811-1 MSD	DW-1-030821	Total/NA	Water	6010C	571921

General Chemistry

Analysis Batch: 571898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-1	DW-1-030821	Total/NA	Water	353.2	
480-181811-2	GW-4S-030821	Total/NA	Water	353.2	
480-181811-3	GP-4D-030821	Total/NA	Water	353.2	
480-181811-4	DUP-001-030821	Total/NA	Water	353.2	
MB 480-571898/3	Method Blank	Total/NA	Water	353.2	
LCS 480-571898/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 571908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-1	DW-1-030821	Total/NA	Water	Nitrate by calc	
480-181811-2	GW-4S-030821	Total/NA	Water	Nitrate by calc	
480-181811-3	GP-4D-030821	Total/NA	Water	Nitrate by calc	
480-181811-4	DUP-001-030821	Total/NA	Water	Nitrate by calc	

Analysis Batch: 571987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-1	DW-1-030821	Total/NA	Water	SM 2320B	
480-181811-2	GW-4S-030821	Total/NA	Water	SM 2320B	
480-181811-3	GP-4D-030821	Total/NA	Water	SM 2320B	
480-181811-4	DUP-001-030821	Total/NA	Water	SM 2320B	
MB 480-571987/28	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-571987/29	Lab Control Sample	Total/NA	Water	SM 2320B	
480-181811-1 MS	DW-1-030821	Total/NA	Water	SM 2320B	
480-181811-2 DU	GW-4S-030821	Total/NA	Water	SM 2320B	

Analysis Batch: 572007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-1	DW-1-030821	Total/NA	Water	SM 5310D	
480-181811-2	GW-4S-030821	Total/NA	Water	SM 5310D	
480-181811-3	GP-4D-030821	Total/NA	Water	SM 5310D	
480-181811-4	DUP-001-030821	Total/NA	Water	SM 5310D	
MB 480-572007/27	Method Blank	Total/NA	Water	SM 5310D	
LCS 480-572007/28	Lab Control Sample	Total/NA	Water	SM 5310D	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

General Chemistry

Analysis Batch: 572156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-1	DW-1-030821	Total/NA	Water	300.0	
480-181811-2	GW-4S-030821	Total/NA	Water	300.0	
480-181811-3	GP-4D-030821	Total/NA	Water	300.0	
480-181811-4	DUP-001-030821	Total/NA	Water	300.0	
MB 480-572156/28	Method Blank	Total/NA	Water	300.0	
MB 480-572156/4	Method Blank	Total/NA	Water	300.0	
LCS 480-572156/27	Lab Control Sample	Total/NA	Water	300.0	
LCS 480-572156/3	Lab Control Sample	Total/NA	Water	300.0	
480-181811-2 MS	GW-4S-030821	Total/NA	Water	300.0	

Analysis Batch: 572450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181811-1	DW-1-030821	Total/NA	Water	SM 4500 S2 F	
480-181811-2	GW-4S-030821	Total/NA	Water	SM 4500 S2 F	
480-181811-3	GP-4D-030821	Total/NA	Water	SM 4500 S2 F	
480-181811-4	DUP-001-030821	Total/NA	Water	SM 4500 S2 F	
MB 480-572450/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-572450/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-181811-1 MS	DW-1-030821	Total/NA	Water	SM 4500 S2 F	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: DW-1-030821

Lab Sample ID: 480-181811-1

Date Collected: 03/08/21 11:40

Matrix: Water

Date Received: 03/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	571782	03/09/21 13:51	OMI	TAL BUF
Total/NA	Analysis	RSK-175		1	572034	03/10/21 18:46	DSC	TAL BUF
Dissolved	Prep	3005A			571925	03/10/21 09:47	ADM	TAL BUF
Dissolved	Analysis	6010C		1	572128	03/10/21 23:28	AMH	TAL BUF
Total/NA	Prep	3005A			571921	03/10/21 09:47	ADM	TAL BUF
Total/NA	Analysis	6010C		1	572143	03/11/21 01:19	AMH	TAL BUF
Total/NA	Analysis	300.0		5	572156	03/11/21 17:43	IMZ	TAL BUF
Total/NA	Analysis	353.2		1	571898	03/09/21 18:50	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571908	03/09/21 18:50	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	571987	03/09/21 19:54	KEB	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	572450	03/14/21 13:50	MJB	TAL BUF
Total/NA	Analysis	SM 5310D		1	572007	03/10/21 08:14	CLA	TAL BUF

Client Sample ID: GW-4S-030821

Lab Sample ID: 480-181811-2

Date Collected: 03/08/21 14:30

Matrix: Water

Date Received: 03/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	571782	03/09/21 14:15	OMI	TAL BUF
Total/NA	Analysis	RSK-175		1	572034	03/10/21 19:05	DSC	TAL BUF
Dissolved	Prep	3005A			571925	03/10/21 09:47	ADM	TAL BUF
Dissolved	Analysis	6010C		1	572128	03/10/21 23:32	AMH	TAL BUF
Total/NA	Prep	3005A			571921	03/10/21 09:47	ADM	TAL BUF
Total/NA	Analysis	6010C		1	572143	03/11/21 01:37	AMH	TAL BUF
Total/NA	Analysis	300.0		5	572156	03/11/21 17:58	IMZ	TAL BUF
Total/NA	Analysis	353.2		1	571898	03/09/21 18:51	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571908	03/09/21 18:51	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	571987	03/09/21 20:09	KEB	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	572450	03/14/21 13:50	MJB	TAL BUF
Total/NA	Analysis	SM 5310D		1	572007	03/10/21 08:31	CLA	TAL BUF

Client Sample ID: GP-4D-030821

Lab Sample ID: 480-181811-3

Date Collected: 03/08/21 14:30

Matrix: Water

Date Received: 03/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	571782	03/09/21 14:39	OMI	TAL BUF
Total/NA	Analysis	RSK-175		1	572034	03/10/21 19:43	DSC	TAL BUF
Dissolved	Prep	3005A			571925	03/10/21 09:47	ADM	TAL BUF
Dissolved	Analysis	6010C		1	572128	03/11/21 00:01	AMH	TAL BUF
Total/NA	Prep	3005A			571921	03/10/21 09:47	ADM	TAL BUF
Total/NA	Analysis	6010C		1	572143	03/11/21 01:41	AMH	TAL BUF
Total/NA	Analysis	300.0		5	572156	03/11/21 19:25	IMZ	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Client Sample ID: GP-4D-030821

Lab Sample ID: 480-181811-3

Date Collected: 03/08/21 14:30

Matrix: Water

Date Received: 03/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	353.2		1	571898	03/09/21 18:53	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571908	03/09/21 18:53	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	571987	03/09/21 20:22	KEB	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	572450	03/14/21 13:50	MJB	TAL BUF
Total/NA	Analysis	SM 5310D		1	572007	03/10/21 08:47	CLA	TAL BUF

Client Sample ID: DUP-001-030821

Lab Sample ID: 480-181811-4

Date Collected: 03/08/21 00:00

Matrix: Water

Date Received: 03/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	571782	03/09/21 15:02	OMI	TAL BUF
Total/NA	Analysis	RSK-175		1	572034	03/10/21 20:01	DSC	TAL BUF
Dissolved	Prep	3005A			571925	03/10/21 09:47	ADM	TAL BUF
Dissolved	Analysis	6010C		1	572128	03/11/21 00:05	AMH	TAL BUF
Total/NA	Prep	3005A			571921	03/10/21 09:47	ADM	TAL BUF
Total/NA	Analysis	6010C		1	572143	03/11/21 01:45	AMH	TAL BUF
Total/NA	Analysis	300.0		5	572156	03/11/21 19:40	IMZ	TAL BUF
Total/NA	Analysis	353.2		1	571898	03/09/21 18:54	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	571908	03/09/21 18:54	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	571987	03/09/21 20:28	KEB	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	572450	03/14/21 13:50	MJB	TAL BUF
Total/NA	Analysis	SM 5310D		1	572007	03/10/21 09:02	CLA	TAL BUF

Client Sample ID: TRIPBLANK-030821

Lab Sample ID: 480-181811-5

Date Collected: 03/08/21 00:00

Matrix: Water

Date Received: 03/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	571782	03/09/21 15:26	OMI	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

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

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
SM 5310D		Water	Total Organic Carbon

Method Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
SM 5310D	Organic Carbon, Total (TOC)	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary


Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181811-1	DW-1-030821	Water	03/08/21 11:40	03/09/21 10:00	
480-181811-2	GW-4S-030821	Water	03/08/21 14:30	03/09/21 10:00	
480-181811-3	GP-4D-030821	Water	03/08/21 14:30	03/09/21 10:00	
480-181811-4	DUP-001-030821	Water	03/08/21 00:00	03/09/21 10:00	
480-181811-5	TRIPBLANK-030821	Water	03/08/21 00:00	03/09/21 10:00	

NYSDEC COSCO Site - Chain of Custody

Site Name / Location: COSCO Site / Spring Valley, NY		Sampling Program: 1st SA GW Sampling Event		Samples: Chris Weiman South Traylor		Lab Use Only Project Number:										
Laboratory: Judy Shook Eurofins - Test America (Buffalo) Laboratory 10 Hazelwood Drive Suite #106 Buffalo, New York 14228 Phone: (716) 691-2600		Package Requirement: Full ASP Category B Data Package and 10 QuIS NYSDEC EDD Project Number: 1940075317.004.200 EDD Format: EQUS 4-PK		Preservatives: (see key at bottom)		Lab ID:										
Unique Field Sample ID	Sample Location	Sample Date (mm/dd/yyyy)	Sample Time (hh:mm)	Sample Type (see key)	Sample Matrix (see key)	# of Containers	Grab (G) or Composite (C)	VOCs by USEPA Method 624	Major Cations by USEPA Method 6010 (Mg, Na, Ca, K)	Major Anions by USEPA Method 3532 (chloride, sulfate, nitrate, nitrate)	Sulfide by USEPA Method 4500-S2P-2000	TOC by SM20 5310C	Total Alkalinity by USEPA Method SM20 2320B	Dissolved Iron and Manganese by USEPA Method 6010D	Dissolved Gases (Methane, Ethane, Ethene) by Method MSK-175	Lab Sample ID
1 DW-1-030821	DW-1	03/08/21	11:40	N	WG	16	G	X	X	X	X	X	X	X	X	
2 GW-4S-030821	GW-4S	03/08/21	14:30	N	WG	16	G	X	X	X	X	X	X	X	X	
3 GP-4D-030821	GP-4D	03/08/21	14:30	N	WG	16	G	X	X	X	X	X	X	X	X	
4 DUP-001-030821	---	03/08/21	---	FD	WG	16	G	X	X	X	X	X	X	X	X	
5 TripBlank-030821	---	03/08/21	---	TB	WG	2	G	X								
6																
7																
8																
9																
10																
11																
12																



480-181811 Chain of Custody

Special Instructions: 1) Three days from sample collection to analysis for VOCs. 2) Report detections above the MDL, but below the PQL, as "J" flags. 3) Report in accordance with NYSDEC analytical laboratory call-out contract. 4) Direct bill all invoices to the NYSDEC.

Custody Seal # 1449680

Relinquished by: Ramboll Date: 3/8/21 Time: 1845	Received by: Chris Weiman Date: 3/8/21 Time: 1845	Tracking Number: 80329749962
Relinquished by:	Received by:	Custody Seal intact?: Y N
Relinquished by:	Received by:	Cooler Temperature:

Comments or Notes:
#1 3.3

Sample Type: N = Normal environmental sample, FD = field duplicate, EB = Equipment Blank, FB = Field Blank, TB = Trip Blank, MS = Lab Matrix Spike, Other (Specify):
Sample Matrix: SE = Sediment, SO = Soil, WG = Ground Water, WS = Surface Water, WP = Waste Water, TA = Animal Tissue, TP = Plant Tissue, AA = Ambient Air, Other (Specify):
Preservatives Code: 0 = none, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Zn Acetate, 6 = MeOH, 7 = NaFISO4, 8 = NaFISO4, 9 = Zn Acetate and NaOH, 10 = H3PO4.

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-181811-1

Login Number: 181811

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	RAMBOLL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-181846-1
Client Project/Site: COSCO #344035

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Robert Strang



Authorized for release by:
3/19/2021 1:45:02 PM
Wyatt Watson, Project Management Assistant I
Wyatt.Watson@Eurofinset.com
Designee for
Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

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results through
TotalAccess

Have a Question?



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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
- 3
- 4
- 5
- 6
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- 14
- 15

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Wyatt Watson
Project Management Assistant I
3/19/2021 1:45:02 PM

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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Job ID: 480-181846-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-181846-1

Comments

No additional comments.

Receipt

The samples were received on 3/10/2021 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: RW-3D-030921 (480-181846-1). Elevated reporting limits (RLs) are provided.

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

HPLC/IC

Method 300.0: The following sample was diluted to bring the concentration of target analytes within the calibration range: RW-3D-030921 (480-181846-1). Elevated reporting limits (RLs) are provided.

Method 300.0: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-18-030921 (480-181846-3) and RW-1S-030921 (480-181846-4). Elevated reporting limits (RLs) are provided.

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

GC VOA

Method RSK-175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-18-030921 (480-181846-3). Elevated reporting limits (RLs) are provided.

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

Metals

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

General Chemistry

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

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Client Sample ID: RW-3D-030921

Lab Sample ID: 480-181846-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	180		50	16	ug/L	5		624.1	Total/NA
Tetrachloroethene	260		25	1.7	ug/L	5		624.1	Total/NA
Trichloroethene	240		25	3.0	ug/L	5		624.1	Total/NA
Calcium	68.9		0.50	0.10	mg/L	1		6010C	Total/NA
Potassium	2.0		0.50	0.10	mg/L	1		6010C	Total/NA
Magnesium	21.2		0.20	0.043	mg/L	1		6010C	Total/NA
Sodium	163		1.0	0.32	mg/L	1		6010C	Total/NA
Chloride	272		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	19.9		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrate as N	2.3		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	206		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Organic Carbon	0.72	J	1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: EquipmentBlank-030921

Lab Sample ID: 480-181846-2

No Detections.

Client Sample ID: MW-18-030921

Lab Sample ID: 480-181846-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	8.4	J	10	3.2	ug/L	1		624.1	Total/NA
Tetrachloroethene	0.58	J	5.0	0.34	ug/L	1		624.1	Total/NA
Trichloroethene	1.3	J	5.0	0.60	ug/L	1		624.1	Total/NA
Vinyl chloride	8.6		5.0	0.75	ug/L	1		624.1	Total/NA
Methane	520		44	11	ug/L	11		RSK-175	Total/NA
Calcium	41.5		0.50	0.10	mg/L	1		6010C	Total/NA
Potassium	2.4		0.50	0.10	mg/L	1		6010C	Total/NA
Magnesium	7.4		0.20	0.043	mg/L	1		6010C	Total/NA
Sodium	135		1.0	0.32	mg/L	1		6010C	Total/NA
Iron	7.6		0.050	0.019	mg/L	1		6010C	Dissolved
Manganese	2.4		0.0030	0.00040	mg/L	1		6010C	Dissolved
Chloride	146		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	11.2		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrate as N	0.16		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	198		5.0	0.79	mg/L	1		SM 2320B	Total/NA
Total Organic Carbon	5.0		1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: RW-1S-030921

Lab Sample ID: 480-181846-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.4	J	5.0	0.34	ug/L	1		624.1	Total/NA
Trichloroethene	12		5.0	0.60	ug/L	1		624.1	Total/NA
Calcium	47.9		0.50	0.10	mg/L	1		6010C	Total/NA
Potassium	2.0		0.50	0.10	mg/L	1		6010C	Total/NA
Magnesium	7.7		0.20	0.043	mg/L	1		6010C	Total/NA
Sodium	158		1.0	0.32	mg/L	1		6010C	Total/NA
Iron	0.067		0.050	0.019	mg/L	1		6010C	Dissolved
Manganese	0.13		0.0030	0.00040	mg/L	1		6010C	Dissolved
Chloride	199		2.5	1.4	mg/L	5		300.0	Total/NA
Sulfate	19.6		10.0	1.7	mg/L	5		300.0	Total/NA
Nitrite as N	0.021	J	0.050	0.020	mg/L	1		353.2	Total/NA
Nitrate as N	2.2		0.050	0.020	mg/L	1		Nitrate by calc	Total/NA
Alkalinity, Total	168		5.0	0.79	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Client Sample ID: RW-1S-030921 (Continued)

Lab Sample ID: 480-181846-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	2.0		1.0	0.43	mg/L	1		SM 5310D	Total/NA

Client Sample ID: TripBlank-030921

Lab Sample ID: 480-181846-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Client Sample ID: RW-3D-030921

Lab Sample ID: 480-181846-1

Date Collected: 03/09/21 11:35

Matrix: Water

Date Received: 03/10/21 09:30

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		25	1.9	ug/L			03/10/21 11:36	5
1,1,2,2-Tetrachloroethane	ND		25	1.3	ug/L			03/10/21 11:36	5
1,1,2-Trichloroethane	ND		25	2.4	ug/L			03/10/21 11:36	5
1,1-Dichloroethane	ND		25	2.9	ug/L			03/10/21 11:36	5
1,1-Dichloroethene	ND		25	4.3	ug/L			03/10/21 11:36	5
1,2-Dichlorobenzene	ND		25	2.2	ug/L			03/10/21 11:36	5
1,2-Dichloroethane	ND		25	3.0	ug/L			03/10/21 11:36	5
1,2-Dichloroethene, Total	180		50	16	ug/L			03/10/21 11:36	5
1,2-Dichloropropane	ND		25	3.1	ug/L			03/10/21 11:36	5
1,3-Dichlorobenzene	ND		25	2.7	ug/L			03/10/21 11:36	5
1,4-Dichlorobenzene	ND		25	2.5	ug/L			03/10/21 11:36	5
2-Chloroethyl vinyl ether	ND		130	9.3	ug/L			03/10/21 11:36	5
Acrolein	ND		500	87	ug/L			03/10/21 11:36	5
Acrylonitrile	ND		250	9.5	ug/L			03/10/21 11:36	5
Benzene	ND		25	3.0	ug/L			03/10/21 11:36	5
Bromodichloromethane	ND		25	2.7	ug/L			03/10/21 11:36	5
Bromoform	ND		25	2.3	ug/L			03/10/21 11:36	5
Bromomethane	ND		25	6.0	ug/L			03/10/21 11:36	5
Carbon tetrachloride	ND		25	2.6	ug/L			03/10/21 11:36	5
Chlorobenzene	ND		25	2.4	ug/L			03/10/21 11:36	5
Chlorodibromomethane	ND		25	2.1	ug/L			03/10/21 11:36	5
Chloroethane	ND		25	4.4	ug/L			03/10/21 11:36	5
Chloroform	ND		25	2.7	ug/L			03/10/21 11:36	5
Chloromethane	ND		25	3.2	ug/L			03/10/21 11:36	5
cis-1,3-Dichloropropene	ND		25	1.7	ug/L			03/10/21 11:36	5
Ethylbenzene	ND		25	2.3	ug/L			03/10/21 11:36	5
Methylene Chloride	ND		25	4.1	ug/L			03/10/21 11:36	5
Tetrachloroethene	260		25	1.7	ug/L			03/10/21 11:36	5
Toluene	ND		25	2.3	ug/L			03/10/21 11:36	5
trans-1,2-Dichloroethene	ND		25	2.9	ug/L			03/10/21 11:36	5
trans-1,3-Dichloropropene	ND		25	2.2	ug/L			03/10/21 11:36	5
Trichloroethene	240		25	3.0	ug/L			03/10/21 11:36	5
Vinyl chloride	ND		25	3.7	ug/L			03/10/21 11:36	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		68 - 130		03/10/21 11:36	5
4-Bromofluorobenzene (Surr)	102		76 - 123		03/10/21 11:36	5
Dibromofluoromethane (Surr)	96		75 - 123		03/10/21 11:36	5
Toluene-d8 (Surr)	93		77 - 120		03/10/21 11:36	5

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/11/21 19:07	1
Ethane	ND		7.5	1.5	ug/L			03/11/21 19:07	1
Ethene	ND		7.0	1.5	ug/L			03/11/21 19:07	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	68.9		0.50	0.10	mg/L		03/11/21 09:08	03/12/21 16:36	1
Potassium	2.0		0.50	0.10	mg/L		03/11/21 09:08	03/12/21 16:36	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Client Sample ID: RW-3D-030921

Lab Sample ID: 480-181846-1

Date Collected: 03/09/21 11:35

Matrix: Water

Date Received: 03/10/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	21.2		0.20	0.043	mg/L		03/11/21 09:08	03/12/21 16:36	1
Sodium	163		1.0	0.32	mg/L		03/11/21 09:08	03/12/21 16:36	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		03/11/21 09:11	03/17/21 05:02	1
Manganese	ND		0.0030	0.00040	mg/L		03/11/21 09:11	03/17/21 05:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	272		2.5	1.4	mg/L			03/12/21 06:07	5
Sulfate	19.9		10.0	1.7	mg/L			03/12/21 06:07	5
Nitrite as N	ND		0.050	0.020	mg/L			03/10/21 20:33	1
Nitrate as N	2.3		0.050	0.020	mg/L			03/10/21 20:33	1
Alkalinity, Total	206		5.0	0.79	mg/L			03/15/21 13:52	1
Sulfide	ND		1.0	0.67	mg/L			03/14/21 13:50	1
Total Organic Carbon	0.72	J	1.0	0.43	mg/L			03/13/21 09:42	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Client Sample ID: EquipmentBlank-030921

Lab Sample ID: 480-181846-2

Date Collected: 03/09/21 13:10

Matrix: Water

Date Received: 03/10/21 09:30

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/10/21 12:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/10/21 12:00	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/10/21 12:00	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/10/21 12:00	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/10/21 12:00	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/10/21 12:00	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/10/21 12:00	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/10/21 12:00	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/10/21 12:00	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/10/21 12:00	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/10/21 12:00	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/10/21 12:00	1
Acrolein	ND		100	17	ug/L			03/10/21 12:00	1
Acrylonitrile	ND		50	1.9	ug/L			03/10/21 12:00	1
Benzene	ND		5.0	0.60	ug/L			03/10/21 12:00	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/10/21 12:00	1
Bromoform	ND		5.0	0.47	ug/L			03/10/21 12:00	1
Bromomethane	ND		5.0	1.2	ug/L			03/10/21 12:00	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/10/21 12:00	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/10/21 12:00	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/10/21 12:00	1
Chloroethane	ND		5.0	0.87	ug/L			03/10/21 12:00	1
Chloroform	ND		5.0	0.54	ug/L			03/10/21 12:00	1
Chloromethane	ND		5.0	0.64	ug/L			03/10/21 12:00	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/10/21 12:00	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/10/21 12:00	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/10/21 12:00	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/10/21 12:00	1
Toluene	ND		5.0	0.45	ug/L			03/10/21 12:00	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/10/21 12:00	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/10/21 12:00	1
Trichloroethene	ND		5.0	0.60	ug/L			03/10/21 12:00	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/10/21 12:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		68 - 130		03/10/21 12:00	1
4-Bromofluorobenzene (Surr)	101		76 - 123		03/10/21 12:00	1
Dibromofluoromethane (Surr)	90		75 - 123		03/10/21 12:00	1
Toluene-d8 (Surr)	93		77 - 120		03/10/21 12:00	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Client Sample ID: MW-18-030921

Lab Sample ID: 480-181846-3

Date Collected: 03/09/21 14:40

Matrix: Water

Date Received: 03/10/21 09:30

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/10/21 12:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/10/21 12:24	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/10/21 12:24	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/10/21 12:24	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/10/21 12:24	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/10/21 12:24	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/10/21 12:24	1
1,2-Dichloroethene, Total	8.4 J		10	3.2	ug/L			03/10/21 12:24	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/10/21 12:24	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/10/21 12:24	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/10/21 12:24	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/10/21 12:24	1
Acrolein	ND		100	17	ug/L			03/10/21 12:24	1
Acrylonitrile	ND		50	1.9	ug/L			03/10/21 12:24	1
Benzene	ND		5.0	0.60	ug/L			03/10/21 12:24	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/10/21 12:24	1
Bromoform	ND		5.0	0.47	ug/L			03/10/21 12:24	1
Bromomethane	ND		5.0	1.2	ug/L			03/10/21 12:24	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/10/21 12:24	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/10/21 12:24	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/10/21 12:24	1
Chloroethane	ND		5.0	0.87	ug/L			03/10/21 12:24	1
Chloroform	ND		5.0	0.54	ug/L			03/10/21 12:24	1
Chloromethane	ND		5.0	0.64	ug/L			03/10/21 12:24	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/10/21 12:24	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/10/21 12:24	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/10/21 12:24	1
Tetrachloroethene	0.58 J		5.0	0.34	ug/L			03/10/21 12:24	1
Toluene	ND		5.0	0.45	ug/L			03/10/21 12:24	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/10/21 12:24	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/10/21 12:24	1
Trichloroethene	1.3 J		5.0	0.60	ug/L			03/10/21 12:24	1
Vinyl chloride	8.6		5.0	0.75	ug/L			03/10/21 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 130		03/10/21 12:24	1
4-Bromofluorobenzene (Surr)	104		76 - 123		03/10/21 12:24	1
Dibromofluoromethane (Surr)	97		75 - 123		03/10/21 12:24	1
Toluene-d8 (Surr)	99		77 - 120		03/10/21 12:24	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	520		44	11	ug/L			03/11/21 19:26	11
Ethane	ND		83	17	ug/L			03/11/21 19:26	11
Ethene	ND		77	17	ug/L			03/11/21 19:26	11

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	41.5		0.50	0.10	mg/L		03/11/21 09:08	03/12/21 16:39	1
Potassium	2.4		0.50	0.10	mg/L		03/11/21 09:08	03/12/21 16:39	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Client Sample ID: MW-18-030921

Lab Sample ID: 480-181846-3

Date Collected: 03/09/21 14:40

Matrix: Water

Date Received: 03/10/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	7.4		0.20	0.043	mg/L		03/11/21 09:08	03/12/21 16:39	1
Sodium	135		1.0	0.32	mg/L		03/11/21 09:08	03/12/21 16:39	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	7.6		0.050	0.019	mg/L		03/11/21 09:11	03/17/21 05:20	1
Manganese	2.4		0.0030	0.00040	mg/L		03/11/21 09:11	03/17/21 05:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	146		2.5	1.4	mg/L			03/12/21 02:07	5
Sulfate	11.2		10.0	1.7	mg/L			03/12/21 02:07	5
Nitrite as N	ND		0.050	0.020	mg/L			03/10/21 20:34	1
Nitrate as N	0.16		0.050	0.020	mg/L			03/10/21 20:34	1
Alkalinity, Total	198		5.0	0.79	mg/L			03/15/21 13:59	1
Sulfide	ND		1.0	0.67	mg/L			03/14/21 13:50	1
Total Organic Carbon	5.0		1.0	0.43	mg/L			03/13/21 09:58	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Client Sample ID: RW-1S-030921

Lab Sample ID: 480-181846-4

Date Collected: 03/09/21 14:45

Matrix: Water

Date Received: 03/10/21 09:30

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/10/21 12:48	1
1,1,2,2-Tetrachloroethane	ND	F2	5.0	0.26	ug/L			03/10/21 12:48	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/10/21 12:48	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/10/21 12:48	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/10/21 12:48	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/10/21 12:48	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/10/21 12:48	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/10/21 12:48	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/10/21 12:48	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/10/21 12:48	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/10/21 12:48	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/10/21 12:48	1
Acrolein	ND		100	17	ug/L			03/10/21 12:48	1
Acrylonitrile	ND		50	1.9	ug/L			03/10/21 12:48	1
Benzene	ND		5.0	0.60	ug/L			03/10/21 12:48	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/10/21 12:48	1
Bromoform	ND		5.0	0.47	ug/L			03/10/21 12:48	1
Bromomethane	ND		5.0	1.2	ug/L			03/10/21 12:48	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/10/21 12:48	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/10/21 12:48	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/10/21 12:48	1
Chloroethane	ND		5.0	0.87	ug/L			03/10/21 12:48	1
Chloroform	ND		5.0	0.54	ug/L			03/10/21 12:48	1
Chloromethane	ND		5.0	0.64	ug/L			03/10/21 12:48	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/10/21 12:48	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/10/21 12:48	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/10/21 12:48	1
Tetrachloroethene	3.4 J		5.0	0.34	ug/L			03/10/21 12:48	1
Toluene	ND		5.0	0.45	ug/L			03/10/21 12:48	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/10/21 12:48	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/10/21 12:48	1
Trichloroethene	12		5.0	0.60	ug/L			03/10/21 12:48	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/10/21 12:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		68 - 130		03/10/21 12:48	1
4-Bromofluorobenzene (Surr)	99		76 - 123		03/10/21 12:48	1
Dibromofluoromethane (Surr)	99		75 - 123		03/10/21 12:48	1
Toluene-d8 (Surr)	97		77 - 120		03/10/21 12:48	1

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/11/21 19:45	1
Ethane	ND		7.5	1.5	ug/L			03/11/21 19:45	1
Ethene	ND		7.0	1.5	ug/L			03/11/21 19:45	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	47.9		0.50	0.10	mg/L		03/11/21 09:08	03/12/21 16:43	1
Potassium	2.0		0.50	0.10	mg/L		03/11/21 09:08	03/12/21 16:43	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Client Sample ID: RW-1S-030921

Lab Sample ID: 480-181846-4

Date Collected: 03/09/21 14:45

Matrix: Water

Date Received: 03/10/21 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	7.7		0.20	0.043	mg/L		03/11/21 09:08	03/12/21 16:43	1
Sodium	158		1.0	0.32	mg/L		03/11/21 09:08	03/12/21 16:43	1

Method: 6010C - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	0.067		0.050	0.019	mg/L		03/11/21 09:11	03/17/21 05:24	1
Manganese	0.13		0.0030	0.00040	mg/L		03/11/21 09:11	03/17/21 05:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	199		2.5	1.4	mg/L			03/12/21 02:35	5
Sulfate	19.6		10.0	1.7	mg/L			03/12/21 02:35	5
Nitrite as N	0.021	J	0.050	0.020	mg/L			03/10/21 20:35	1
Nitrate as N	2.2		0.050	0.020	mg/L			03/10/21 20:35	1
Alkalinity, Total	168		5.0	0.79	mg/L			03/15/21 14:08	1
Sulfide	ND		1.0	0.67	mg/L			03/14/21 13:50	1
Total Organic Carbon	2.0		1.0	0.43	mg/L			03/13/21 10:14	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Client Sample ID: TripBlank-030921

Lab Sample ID: 480-181846-5

Date Collected: 03/09/21 00:00

Matrix: Water

Date Received: 03/10/21 09:30

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/10/21 13:12	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/10/21 13:12	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/10/21 13:12	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/10/21 13:12	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/10/21 13:12	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/10/21 13:12	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/10/21 13:12	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/10/21 13:12	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/10/21 13:12	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/10/21 13:12	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/10/21 13:12	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/10/21 13:12	1
Acrolein	ND		100	17	ug/L			03/10/21 13:12	1
Acrylonitrile	ND		50	1.9	ug/L			03/10/21 13:12	1
Benzene	ND		5.0	0.60	ug/L			03/10/21 13:12	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/10/21 13:12	1
Bromoform	ND		5.0	0.47	ug/L			03/10/21 13:12	1
Bromomethane	ND		5.0	1.2	ug/L			03/10/21 13:12	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/10/21 13:12	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/10/21 13:12	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/10/21 13:12	1
Chloroethane	ND		5.0	0.87	ug/L			03/10/21 13:12	1
Chloroform	ND		5.0	0.54	ug/L			03/10/21 13:12	1
Chloromethane	ND		5.0	0.64	ug/L			03/10/21 13:12	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/10/21 13:12	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/10/21 13:12	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/10/21 13:12	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/10/21 13:12	1
Toluene	ND		5.0	0.45	ug/L			03/10/21 13:12	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/10/21 13:12	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/10/21 13:12	1
Trichloroethene	ND		5.0	0.60	ug/L			03/10/21 13:12	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/10/21 13:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 130		03/10/21 13:12	1
4-Bromofluorobenzene (Surr)	100		76 - 123		03/10/21 13:12	1
Dibromofluoromethane (Surr)	96		75 - 123		03/10/21 13:12	1
Toluene-d8 (Surr)	97		77 - 120		03/10/21 13:12	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(68-130)	(76-123)	(75-123)	(77-120)
480-181846-1	RW-3D-030921	89	102	96	93
480-181846-2	EquipmentBlank-030921	83	101	90	93
480-181846-3	MW-18-030921	92	104	97	99
480-181846-4	RW-1S-030921	90	99	99	97
480-181846-4 MS	RW-1S-030921	98	101	99	99
480-181846-4 MSD	RW-1S-030921	97	95	100	100
480-181846-5	TripBlank-030921	97	100	96	97
LCS 480-571933/5	Lab Control Sample	91	102	93	91
MB 480-571933/7	Method Blank	92	100	100	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-571933/7

Matrix: Water

Analysis Batch: 571933

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			03/10/21 10:51	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			03/10/21 10:51	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			03/10/21 10:51	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			03/10/21 10:51	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			03/10/21 10:51	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			03/10/21 10:51	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			03/10/21 10:51	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			03/10/21 10:51	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			03/10/21 10:51	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			03/10/21 10:51	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			03/10/21 10:51	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			03/10/21 10:51	1
Acrolein	ND		100	17	ug/L			03/10/21 10:51	1
Acrylonitrile	ND		50	1.9	ug/L			03/10/21 10:51	1
Benzene	ND		5.0	0.60	ug/L			03/10/21 10:51	1
Bromodichloromethane	ND		5.0	0.54	ug/L			03/10/21 10:51	1
Bromoform	ND		5.0	0.47	ug/L			03/10/21 10:51	1
Bromomethane	ND		5.0	1.2	ug/L			03/10/21 10:51	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			03/10/21 10:51	1
Chlorobenzene	ND		5.0	0.48	ug/L			03/10/21 10:51	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			03/10/21 10:51	1
Chloroethane	ND		5.0	0.87	ug/L			03/10/21 10:51	1
Chloroform	ND		5.0	0.54	ug/L			03/10/21 10:51	1
Chloromethane	ND		5.0	0.64	ug/L			03/10/21 10:51	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			03/10/21 10:51	1
Ethylbenzene	ND		5.0	0.46	ug/L			03/10/21 10:51	1
Methylene Chloride	ND		5.0	0.81	ug/L			03/10/21 10:51	1
Tetrachloroethene	ND		5.0	0.34	ug/L			03/10/21 10:51	1
Toluene	ND		5.0	0.45	ug/L			03/10/21 10:51	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			03/10/21 10:51	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			03/10/21 10:51	1
Trichloroethene	ND		5.0	0.60	ug/L			03/10/21 10:51	1
Vinyl chloride	ND		5.0	0.75	ug/L			03/10/21 10:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 130		03/10/21 10:51	1
4-Bromofluorobenzene (Surr)	100		76 - 123		03/10/21 10:51	1
Dibromofluoromethane (Surr)	100		75 - 123		03/10/21 10:51	1
Toluene-d8 (Surr)	101		77 - 120		03/10/21 10:51	1

Lab Sample ID: LCS 480-571933/5

Matrix: Water

Analysis Batch: 571933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.4		ug/L		102	52 - 162
1,1,2,2-Tetrachloroethane	20.0	20.8		ug/L		104	46 - 157
1,1,2-Trichloroethane	20.0	19.5		ug/L		97	52 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-571933/5

Matrix: Water

Analysis Batch: 571933

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	17.5		ug/L		87	59 - 155
1,1-Dichloroethene	20.0	17.5		ug/L		88	1 - 234
1,2-Dichlorobenzene	20.0	19.1		ug/L		95	18 - 190
1,2-Dichloroethane	20.0	16.6		ug/L		83	49 - 155
1,2-Dichloropropane	20.0	19.3		ug/L		97	1 - 210
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	59 - 156
1,4-Dichlorobenzene	20.0	19.4		ug/L		97	18 - 190
2-Chloroethyl vinyl ether	20.0	19.2	J	ug/L		96	1 - 305
Benzene	20.0	18.7		ug/L		94	37 - 151
Bromodichloromethane	20.0	18.5		ug/L		93	35 - 155
Bromoform	20.0	19.6		ug/L		98	45 - 169
Bromomethane	20.0	18.1		ug/L		90	1 - 242
Carbon tetrachloride	20.0	18.6		ug/L		93	70 - 140
Chlorobenzene	20.0	19.3		ug/L		96	37 - 160
Chlorodibromomethane	20.0	19.7		ug/L		98	53 - 149
Chloroethane	20.0	19.0		ug/L		95	14 - 230
Chloroform	20.0	19.7		ug/L		98	51 - 138
Chloromethane	20.0	16.4		ug/L		82	1 - 273
cis-1,3-Dichloropropene	20.0	20.3		ug/L		101	1 - 227
Ethylbenzene	20.0	20.2		ug/L		101	37 - 162
Methylene Chloride	20.0	17.2		ug/L		86	1 - 221
Tetrachloroethene	20.0	18.9		ug/L		94	64 - 148
Toluene	20.0	19.4		ug/L		97	47 - 150
trans-1,2-Dichloroethene	20.0	17.4		ug/L		87	54 - 156
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	17 - 183
Trichloroethene	20.0	18.2		ug/L		91	71 - 157
Vinyl chloride	20.0	17.4		ug/L		87	1 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		68 - 130
4-Bromofluorobenzene (Surr)	102		76 - 123
Dibromofluoromethane (Surr)	93		75 - 123
Toluene-d8 (Surr)	91		77 - 120

Lab Sample ID: 480-181846-4 MS

Matrix: Water

Analysis Batch: 571933

Client Sample ID: RW-1S-030921

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		20.0	22.0		ug/L		110	52 - 162
1,1,2,2-Tetrachloroethane	ND	F2	20.0	23.3		ug/L		116	46 - 157
1,1,2-Trichloroethane	ND		20.0	21.7		ug/L		108	52 - 150
1,1-Dichloroethane	ND		20.0	21.3		ug/L		106	59 - 155
1,1-Dichloroethene	ND		20.0	22.4		ug/L		112	1 - 234
1,2-Dichlorobenzene	ND		20.0	22.3		ug/L		112	18 - 190
1,2-Dichloroethane	ND		20.0	21.9		ug/L		109	49 - 155
1,2-Dichloropropane	ND		20.0	21.2		ug/L		106	1 - 210
1,3-Dichlorobenzene	ND		20.0	21.7		ug/L		108	59 - 156

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-181846-4 MS

Matrix: Water

Analysis Batch: 571933

Client Sample ID: RW-1S-030921

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	ND		20.0	22.3		ug/L		111	18 - 190
2-Chloroethyl vinyl ether	ND		20.0	21.4	J	ug/L		107	1 - 305
Benzene	ND		20.0	23.7		ug/L		118	37 - 151
Bromodichloromethane	ND		20.0	21.6		ug/L		108	35 - 155
Bromoform	ND		20.0	21.0		ug/L		105	45 - 169
Bromomethane	ND		20.0	21.4		ug/L		107	1 - 242
Carbon tetrachloride	ND		20.0	21.7		ug/L		109	70 - 140
Chlorobenzene	ND		20.0	22.1		ug/L		110	37 - 160
Chlorodibromomethane	ND		20.0	21.7		ug/L		109	53 - 149
Chloroethane	ND		20.0	21.7		ug/L		108	14 - 230
Chloroform	ND		20.0	22.8		ug/L		114	51 - 138
Chloromethane	ND		20.0	20.2		ug/L		101	1 - 273
cis-1,3-Dichloropropene	ND		20.0	22.2		ug/L		111	1 - 227
Ethylbenzene	ND		20.0	22.8		ug/L		114	37 - 162
Methylene Chloride	ND		20.0	21.0		ug/L		105	1 - 221
Tetrachloroethene	3.4	J	20.0	25.3		ug/L		110	64 - 148
Toluene	ND		20.0	22.5		ug/L		112	47 - 150
trans-1,2-Dichloroethene	ND		20.0	22.1		ug/L		110	54 - 156
trans-1,3-Dichloropropene	ND		20.0	21.5		ug/L		107	17 - 183
Trichloroethene	12		20.0	34.0		ug/L		110	71 - 157
Vinyl chloride	ND		20.0	21.6		ug/L		108	1 - 251
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	98		68 - 130						
4-Bromofluorobenzene (Surr)	101		76 - 123						
Dibromofluoromethane (Surr)	99		75 - 123						
Toluene-d8 (Surr)	99		77 - 120						

Lab Sample ID: 480-181846-4 MSD

Matrix: Water

Analysis Batch: 571933

Client Sample ID: RW-1S-030921

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		20.0	22.1		ug/L		111	52 - 162	0	15
1,1,2,2-Tetrachloroethane	ND	F2	20.0	19.2	F2	ug/L		96	46 - 157	19	15
1,1,2-Trichloroethane	ND		20.0	21.1		ug/L		105	52 - 150	3	15
1,1-Dichloroethane	ND		20.0	20.7		ug/L		104	59 - 155	3	15
1,1-Dichloroethene	ND		20.0	22.2		ug/L		111	1 - 234	1	15
1,2-Dichlorobenzene	ND		20.0	21.4		ug/L		107	18 - 190	4	15
1,2-Dichloroethane	ND		20.0	19.1		ug/L		96	49 - 155	13	15
1,2-Dichloropropane	ND		20.0	21.2		ug/L		106	1 - 210	0	15
1,3-Dichlorobenzene	ND		20.0	21.3		ug/L		107	59 - 156	2	15
1,4-Dichlorobenzene	ND		20.0	21.6		ug/L		108	18 - 190	3	15
2-Chloroethyl vinyl ether	ND		20.0	20.5	J	ug/L		103	1 - 305	4	15
Benzene	ND		20.0	22.6		ug/L		113	37 - 151	5	15
Bromodichloromethane	ND		20.0	20.7		ug/L		104	35 - 155	4	15
Bromoform	ND		20.0	20.4		ug/L		102	45 - 169	3	15
Bromomethane	ND		20.0	23.9		ug/L		120	1 - 242	11	15

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 480-181846-4 MSD

Matrix: Water

Analysis Batch: 571933

Client Sample ID: RW-1S-030921

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon tetrachloride	ND		20.0	22.9		ug/L		114	70 - 140	5	15
Chlorobenzene	ND		20.0	21.6		ug/L		108	37 - 160	2	15
Chlorodibromomethane	ND		20.0	20.4		ug/L		102	53 - 149	6	15
Chloroethane	ND		20.0	24.1		ug/L		121	14 - 230	11	15
Chloroform	ND		20.0	21.3		ug/L		106	51 - 138	7	15
Chloromethane	ND		20.0	21.6		ug/L		108	1 - 273	6	15
cis-1,3-Dichloropropene	ND		20.0	22.0		ug/L		110	1 - 227	1	15
Ethylbenzene	ND		20.0	21.9		ug/L		109	37 - 162	4	15
Methylene Chloride	ND		20.0	20.3		ug/L		102	1 - 221	3	15
Tetrachloroethene	3.4	J	20.0	23.5		ug/L		101	64 - 148	7	15
Toluene	ND		20.0	21.1		ug/L		106	47 - 150	6	15
trans-1,2-Dichloroethene	ND		20.0	21.1		ug/L		105	54 - 156	5	15
trans-1,3-Dichloropropene	ND		20.0	21.4		ug/L		107	17 - 183	0	15
Trichloroethene	12		20.0	33.5		ug/L		108	71 - 157	1	15
Vinyl chloride	ND		20.0	22.7		ug/L		114	1 - 251	5	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		68 - 130
4-Bromofluorobenzene (Surr)	95		76 - 123
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	100		77 - 120

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 480-572179/3

Matrix: Water

Analysis Batch: 572179

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	ND		4.0	1.0	ug/L			03/11/21 12:42	1
Ethane	ND		7.5	1.5	ug/L			03/11/21 12:42	1
Ethene	ND		7.0	1.5	ug/L			03/11/21 12:42	1

Lab Sample ID: LCS 480-572179/4

Matrix: Water

Analysis Batch: 572179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methane	19.2	18.7		ug/L		97	85 - 120
Ethane	36.8	35.7		ug/L		97	79 - 120
Ethene	33.7	33.1		ug/L		98	85 - 120

Lab Sample ID: LCSD 480-572179/5

Matrix: Water

Analysis Batch: 572179

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane	19.2	18.7		ug/L		97	85 - 120	0	50
Ethane	36.8	35.6		ug/L		97	79 - 120	0	50

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 480-572179/5

Matrix: Water

Analysis Batch: 572179

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethene	33.7	33.4		ug/L		99	85 - 120	1	50

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 480-572092/1-A

Matrix: Water

Analysis Batch: 572512

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 572092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		0.50	0.10	mg/L		03/11/21 09:08	03/12/21 16:09	1
Potassium	ND		0.50	0.10	mg/L		03/11/21 09:08	03/12/21 16:09	1
Magnesium	ND		0.20	0.043	mg/L		03/11/21 09:08	03/12/21 16:09	1
Sodium	ND		1.0	0.32	mg/L		03/11/21 09:08	03/12/21 16:09	1

Lab Sample ID: LCS 480-572092/2-A

Matrix: Water

Analysis Batch: 572512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 572092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	10.0	9.88		mg/L		99	80 - 120
Potassium	10.0	9.98		mg/L		100	80 - 120
Magnesium	10.0	9.65		mg/L		97	80 - 120
Sodium	10.0	10.78		mg/L		108	80 - 120

Lab Sample ID: MB 480-572101/1-A

Matrix: Water

Analysis Batch: 572803

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 572101

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.050	0.019	mg/L		03/11/21 09:11	03/17/21 04:54	1
Manganese	ND		0.0030	0.00040	mg/L		03/11/21 09:11	03/17/21 04:54	1

Lab Sample ID: LCS 480-572101/2-A

Matrix: Water

Analysis Batch: 572803

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 572101

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	10.0	10.03		mg/L		100	80 - 120
Manganese	0.200	0.209		mg/L		104	80 - 120

Lab Sample ID: 480-181846-1 MS

Matrix: Water

Analysis Batch: 572803

Client Sample ID: RW-3D-030921

Prep Type: Dissolved

Prep Batch: 572101

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	ND		10.0	10.01		mg/L		100	75 - 125
Manganese	ND		0.200	0.208		mg/L		104	75 - 125

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

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

Lab Sample ID: 480-181846-1 MSD

Matrix: Water

Analysis Batch: 572803

Client Sample ID: RW-3D-030921

Prep Type: Dissolved

Prep Batch: 572101

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	ND		10.0	9.78		mg/L		98	75 - 125	2	20
Manganese	ND		0.200	0.203		mg/L		102	75 - 125	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-572217/4

Matrix: Water

Analysis Batch: 572217

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			03/12/21 01:30	1
Sulfate	ND		2.0	0.35	mg/L			03/12/21 01:30	1

Lab Sample ID: LCS 480-572217/3

Matrix: Water

Analysis Batch: 572217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	50.22		mg/L		100	90 - 110
Sulfate	50.0	50.67		mg/L		101	90 - 110

Lab Sample ID: 480-181846-1 MS

Matrix: Water

Analysis Batch: 572217

Client Sample ID: RW-3D-030921

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	272		250	497.8		mg/L		90	81 - 120
Sulfate	19.9		250	255.1		mg/L		94	80 - 120

Lab Sample ID: MB 480-572230/4

Matrix: Water

Analysis Batch: 572230

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.50	0.28	mg/L			03/12/21 01:39	1
Sulfate	ND		2.0	0.35	mg/L			03/12/21 01:39	1

Lab Sample ID: LCS 480-572230/3

Matrix: Water

Analysis Batch: 572230

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	50.0	48.68		mg/L		97	90 - 110
Sulfate	50.0	48.19		mg/L		96	90 - 110

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Method: 353.2 - Nitrogen, Nitrite

Lab Sample ID: MB 480-572058/3

Matrix: Water

Analysis Batch: 572058

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrite as N	ND		0.050	0.020	mg/L			03/10/21 20:26	1

Lab Sample ID: LCS 480-572058/4

Matrix: Water

Analysis Batch: 572058

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrite as N	1.50	1.58		mg/L		105	90 - 110

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 480-572606/4

Matrix: Water

Analysis Batch: 572606

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity, Total	ND		5.0	0.79	mg/L			03/15/21 13:18	1

Lab Sample ID: LCS 480-572606/5

Matrix: Water

Analysis Batch: 572606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity, Total	100	98.32		mg/L		98	90 - 110

Method: SM 4500 S2 F - Sulfide, Total

Lab Sample ID: MB 480-572450/3

Matrix: Water

Analysis Batch: 572450

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		1.0	0.67	mg/L			03/14/21 13:50	1

Lab Sample ID: LCS 480-572450/4

Matrix: Water

Analysis Batch: 572450

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	7.80	7.60		mg/L		97	90 - 110

Lab Sample ID: 480-181846-3 DU

Matrix: Water

Analysis Batch: 572450

Client Sample ID: MW-18-030921

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	ND		ND		mg/L		NC	20

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QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

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

Lab Sample ID: MB 480-572434/27

Matrix: Water

Analysis Batch: 572434

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			03/12/21 23:24	1

Lab Sample ID: MB 480-572434/51

Matrix: Water

Analysis Batch: 572434

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1.0	0.43	mg/L			03/13/21 05:45	1

Lab Sample ID: LCS 480-572434/28

Matrix: Water

Analysis Batch: 572434

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	57.54		mg/L		96	90 - 110

Lab Sample ID: LCS 480-572434/52

Matrix: Water

Analysis Batch: 572434

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	60.0	58.24		mg/L		97	90 - 110

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

GC/MS VOA

Analysis Batch: 571933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-1	RW-3D-030921	Total/NA	Water	624.1	
480-181846-2	EquipmentBlank-030921	Total/NA	Water	624.1	
480-181846-3	MW-18-030921	Total/NA	Water	624.1	
480-181846-4	RW-1S-030921	Total/NA	Water	624.1	
480-181846-5	TripBlank-030921	Total/NA	Water	624.1	
MB 480-571933/7	Method Blank	Total/NA	Water	624.1	
LCS 480-571933/5	Lab Control Sample	Total/NA	Water	624.1	
480-181846-4 MS	RW-1S-030921	Total/NA	Water	624.1	
480-181846-4 MSD	RW-1S-030921	Total/NA	Water	624.1	

GC VOA

Analysis Batch: 572179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-1	RW-3D-030921	Total/NA	Water	RSK-175	
480-181846-3	MW-18-030921	Total/NA	Water	RSK-175	
480-181846-4	RW-1S-030921	Total/NA	Water	RSK-175	
MB 480-572179/3	Method Blank	Total/NA	Water	RSK-175	
LCS 480-572179/4	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 480-572179/5	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Metals

Prep Batch: 572092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-1	RW-3D-030921	Total/NA	Water	3005A	
480-181846-3	MW-18-030921	Total/NA	Water	3005A	
480-181846-4	RW-1S-030921	Total/NA	Water	3005A	
MB 480-572092/1-A	Method Blank	Total/NA	Water	3005A	
LCS 480-572092/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 572101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-1	RW-3D-030921	Dissolved	Water	3005A	
480-181846-3	MW-18-030921	Dissolved	Water	3005A	
480-181846-4	RW-1S-030921	Dissolved	Water	3005A	
MB 480-572101/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 480-572101/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
480-181846-1 MS	RW-3D-030921	Dissolved	Water	3005A	
480-181846-1 MSD	RW-3D-030921	Dissolved	Water	3005A	

Analysis Batch: 572512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-1	RW-3D-030921	Total/NA	Water	6010C	572092
480-181846-3	MW-18-030921	Total/NA	Water	6010C	572092
480-181846-4	RW-1S-030921	Total/NA	Water	6010C	572092
MB 480-572092/1-A	Method Blank	Total/NA	Water	6010C	572092
LCS 480-572092/2-A	Lab Control Sample	Total/NA	Water	6010C	572092

Analysis Batch: 572803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-1	RW-3D-030921	Dissolved	Water	6010C	572101

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QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Metals (Continued)

Analysis Batch: 572803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-3	MW-18-030921	Dissolved	Water	6010C	572101
480-181846-4	RW-1S-030921	Dissolved	Water	6010C	572101
MB 480-572101/1-A	Method Blank	Total Recoverable	Water	6010C	572101
LCS 480-572101/2-A	Lab Control Sample	Total Recoverable	Water	6010C	572101
480-181846-1 MS	RW-3D-030921	Dissolved	Water	6010C	572101
480-181846-1 MSD	RW-3D-030921	Dissolved	Water	6010C	572101

General Chemistry

Analysis Batch: 572058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-1	RW-3D-030921	Total/NA	Water	353.2	
480-181846-3	MW-18-030921	Total/NA	Water	353.2	
480-181846-4	RW-1S-030921	Total/NA	Water	353.2	
MB 480-572058/3	Method Blank	Total/NA	Water	353.2	
LCS 480-572058/4	Lab Control Sample	Total/NA	Water	353.2	

Analysis Batch: 572064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-1	RW-3D-030921	Total/NA	Water	Nitrate by calc	
480-181846-3	MW-18-030921	Total/NA	Water	Nitrate by calc	
480-181846-4	RW-1S-030921	Total/NA	Water	Nitrate by calc	

Analysis Batch: 572217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-1	RW-3D-030921	Total/NA	Water	300.0	
MB 480-572217/4	Method Blank	Total/NA	Water	300.0	
LCS 480-572217/3	Lab Control Sample	Total/NA	Water	300.0	
480-181846-1 MS	RW-3D-030921	Total/NA	Water	300.0	

Analysis Batch: 572230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-3	MW-18-030921	Total/NA	Water	300.0	
480-181846-4	RW-1S-030921	Total/NA	Water	300.0	
MB 480-572230/4	Method Blank	Total/NA	Water	300.0	
LCS 480-572230/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 572434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-1	RW-3D-030921	Total/NA	Water	SM 5310D	
480-181846-3	MW-18-030921	Total/NA	Water	SM 5310D	
480-181846-4	RW-1S-030921	Total/NA	Water	SM 5310D	
MB 480-572434/27	Method Blank	Total/NA	Water	SM 5310D	
MB 480-572434/51	Method Blank	Total/NA	Water	SM 5310D	
LCS 480-572434/28	Lab Control Sample	Total/NA	Water	SM 5310D	
LCS 480-572434/52	Lab Control Sample	Total/NA	Water	SM 5310D	

Analysis Batch: 572450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-1	RW-3D-030921	Total/NA	Water	SM 4500 S2 F	
480-181846-3	MW-18-030921	Total/NA	Water	SM 4500 S2 F	

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

General Chemistry (Continued)

Analysis Batch: 572450 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-4	RW-1S-030921	Total/NA	Water	SM 4500 S2 F	
MB 480-572450/3	Method Blank	Total/NA	Water	SM 4500 S2 F	
LCS 480-572450/4	Lab Control Sample	Total/NA	Water	SM 4500 S2 F	
480-181846-3 DU	MW-18-030921	Total/NA	Water	SM 4500 S2 F	

Analysis Batch: 572606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-181846-1	RW-3D-030921	Total/NA	Water	SM 2320B	
480-181846-3	MW-18-030921	Total/NA	Water	SM 2320B	
480-181846-4	RW-1S-030921	Total/NA	Water	SM 2320B	
MB 480-572606/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 480-572606/5	Lab Control Sample	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Client Sample ID: RW-3D-030921

Lab Sample ID: 480-181846-1

Date Collected: 03/09/21 11:35

Matrix: Water

Date Received: 03/10/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		5	571933	03/10/21 11:36	WJD	TAL BUF
Total/NA	Analysis	RSK-175		1	572179	03/11/21 19:07	DSC	TAL BUF
Dissolved	Prep	3005A			572101	03/11/21 09:11	ADM	TAL BUF
Dissolved	Analysis	6010C		1	572803	03/17/21 05:02	AMH	TAL BUF
Total/NA	Prep	3005A			572092	03/11/21 09:08	ADM	TAL BUF
Total/NA	Analysis	6010C		1	572512	03/12/21 16:36	AMH	TAL BUF
Total/NA	Analysis	300.0		5	572217	03/12/21 06:07	IMZ	TAL BUF
Total/NA	Analysis	353.2		1	572058	03/10/21 20:33	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	572064	03/10/21 20:33	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	572606	03/15/21 13:52	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	572450	03/14/21 13:50	MJB	TAL BUF
Total/NA	Analysis	SM 5310D		1	572434	03/13/21 09:42	CLA	TAL BUF

Client Sample ID: EquipmentBlank-030921

Lab Sample ID: 480-181846-2

Date Collected: 03/09/21 13:10

Matrix: Water

Date Received: 03/10/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	571933	03/10/21 12:00	WJD	TAL BUF

Client Sample ID: MW-18-030921

Lab Sample ID: 480-181846-3

Date Collected: 03/09/21 14:40

Matrix: Water

Date Received: 03/10/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	571933	03/10/21 12:24	WJD	TAL BUF
Total/NA	Analysis	RSK-175		11	572179	03/11/21 19:26	DSC	TAL BUF
Dissolved	Prep	3005A			572101	03/11/21 09:11	ADM	TAL BUF
Dissolved	Analysis	6010C		1	572803	03/17/21 05:20	AMH	TAL BUF
Total/NA	Prep	3005A			572092	03/11/21 09:08	ADM	TAL BUF
Total/NA	Analysis	6010C		1	572512	03/12/21 16:39	AMH	TAL BUF
Total/NA	Analysis	300.0		5	572230	03/12/21 02:07	IMZ	TAL BUF
Total/NA	Analysis	353.2		1	572058	03/10/21 20:34	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	572064	03/10/21 20:34	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	572606	03/15/21 13:59	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	572450	03/14/21 13:50	MJB	TAL BUF
Total/NA	Analysis	SM 5310D		1	572434	03/13/21 09:58	CLA	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Client Sample ID: RW-1S-030921

Lab Sample ID: 480-181846-4

Date Collected: 03/09/21 14:45

Matrix: Water

Date Received: 03/10/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	571933	03/10/21 12:48	WJD	TAL BUF
Total/NA	Analysis	RSK-175		1	572179	03/11/21 19:45	DSC	TAL BUF
Dissolved	Prep	3005A			572101	03/11/21 09:11	ADM	TAL BUF
Dissolved	Analysis	6010C		1	572803	03/17/21 05:24	AMH	TAL BUF
Total/NA	Prep	3005A			572092	03/11/21 09:08	ADM	TAL BUF
Total/NA	Analysis	6010C		1	572512	03/12/21 16:43	AMH	TAL BUF
Total/NA	Analysis	300.0		5	572230	03/12/21 02:35	IMZ	TAL BUF
Total/NA	Analysis	353.2		1	572058	03/10/21 20:35	ALT	TAL BUF
Total/NA	Analysis	Nitrate by calc		1	572064	03/10/21 20:35	ALT	TAL BUF
Total/NA	Analysis	SM 2320B		1	572606	03/15/21 14:08	DLG	TAL BUF
Total/NA	Analysis	SM 4500 S2 F		1	572450	03/14/21 13:50	MJB	TAL BUF
Total/NA	Analysis	SM 5310D		1	572434	03/13/21 10:14	CLA	TAL BUF

Client Sample ID: TripBlank-030921

Lab Sample ID: 480-181846-5

Date Collected: 03/09/21 00:00

Matrix: Water

Date Received: 03/10/21 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	571933	03/10/21 13:12	WJD	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-21

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

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
SM 5310D		Water	Total Organic Carbon

Method Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-181846-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
RSK-175	Dissolved Gases (GC)	RSK	TAL BUF
6010C	Metals (ICP)	SW846	TAL BUF
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF
353.2	Nitrogen, Nitrite	MCAWW	TAL BUF
Nitrate by calc	Nitrogen, Nitrate-Nitrite	SM	TAL BUF
SM 2320B	Alkalinity	SM	TAL BUF
SM 4500 S2 F	Sulfide, Total	SM	TAL BUF
SM 5310D	Organic Carbon, Total (TOC)	SM	TAL BUF
3005A	Preparation, Total Metals	SW846	TAL BUF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035


Job ID: 480-181846-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-181846-1	RW-3D-030921	Water	03/09/21 11:35	03/10/21 09:30	
480-181846-2	EquipmentBlank-030921	Water	03/09/21 13:10	03/10/21 09:30	
480-181846-3	MW-18-030921	Water	03/09/21 14:40	03/10/21 09:30	
480-181846-4	RW-1S-030921	Water	03/09/21 14:45	03/10/21 09:30	
480-181846-5	TripBlank-030921	Water	03/09/21 00:00	03/10/21 09:30	

NYSDEC COSCO Site - Chain of Custody

Page 1 of 1

Site Name / Location: COSCO Site / Spring Valley, NY		Sampling Program: 1st SA GW Sampling Event		Samples: Chris Weiman <i>Chris Weiman</i>		Sign: <i>Chris Weiman</i>		Lab Use Only Project Number:		
Laboratory: Eurodins - Test America (Buffalo) Laboratory 10 Hazzardwood Drive, Suite #106 Buffalo, New York 14228 Phone: (716) 691 2000		Package Requirement: Full ASP Category B Data Package and EQQS NYSDEC EDD Project Number: 1944075217.004.200 EDD Format: EQQS File		Preservatives: (see key at bottom)		Lab ID:		Job Number:		
Unique Field Sample ID	Sample Location	Sample Date (mm/dd/yy)	Sample Time (hh:mm)	Sample Type (see key)	Sample Matrix (see key)	# of Containers	Field Reporting Units	Grab (G) or Composite (C)	Preservatives (see key at bottom)	Lab Sample ID
1 RW-3D-030921	RW-3D	03/09/21	11:35	N	WG	16	G	X	Major Anions by USEPA Method 855.2 (chloride, sulfate, nitrate, nitrate)	X
2 EquipmentBlank-030921	---	03/09/21	13:10	EB	WQ	3	G	X	Major Cations by USEPA Method 855.2 (Mg, Na, Ca)	X
3 MW-18-030921	MW-18	03/09/21	14:40	N	WG	16	G	X	TOC by SM20 5310C	X
4 RW-1S-030921	RW-1S	03/09/21	14:45	N	WG	16	G	X	Total Alkalinity by USEPA Method SM20 2320B	X
5 RW-1S-MS-030921	RW-1S	03/09/21	14:45	MS	WQ	3	G	X	Dissolved Iron and Manganese by USEPA Method 8175	X
6 RW-1S-MSD-030921	RW-1S	03/09/21	14:45	MS	WQ	3	G	X	Dissolved Gases (Mercury, Lithium) by Method 8170	X
7 TripBlank-030921	---	03/09/21	---	TB	WQ	2	G	X		
8										
9										
10										
11										
12										



480-181846 Chain of Custody

Special Instructions: 1). Three days from sample collection to analysis for VOCs. 2). Report detections above the MDL, but below the PQL, as "Y" flags. 3). Report in accordance with NYSDEC analytical laboratory call-out contract. 4). Direct bill all invoices to the NYSDEC. *Custody Seal # 1447685*

Relinquished by: <i>Chris Weiman</i>	Date: <i>3/9/21</i>	Time: <i>1820</i>	Comments or Notes:
Relinquished by: <i>Chris Weiman</i>	Date: <i>3/10/21</i>	Time: <i>0930</i>	
Relinquished by: <i>Chris Weiman</i>	Date: <i>3/10/21</i>	Time: <i>0930</i>	
Relinquished by: <i>Chris Weiman</i>	Date: <i>3/10/21</i>	Time: <i>0930</i>	

Sample Type: N = Normal environmental sample, FD = field duplicate, EB = Equipment Blank, FB = Field Blank, TB = Trip Blank, MS = Lab Matrix Spike, Other (Specify):
Sample Matrix: SE = Sediment, SO = Soil, WG = Ground Water, WS = Surface Water, WP = Potable Water, TA = Animal Tissue, TP = Plant Tissue, AA = Ambient Air, Other (Specify):
Preservatives Code: 0 = none, 1 = HCL, 2 = HNO3, 3 = H2SO4, 4 = NaOH, 5 = Zn Acetate, 6 = MeOH, 7 = NaH2PO4, 8 = NaHSO4, 9 = Zn Acetate and NaOH, 10 = H3PO4.

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-181846-1

Login Number: 181846

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	RAMBOLL
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	



April 2021 Analytical Data

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-182791-1
Client Project/Site: COSCO #344035

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Robert Strang



Authorized for release by:
4/15/2021 5:11:05 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Judy Stone
Senior Project Manager
4/15/2021 5:11:05 PM

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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Job ID: 480-182791-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-182791-1

Receipt

The samples were received on 4/3/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.2° C.

GC/MS VOA

Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: RW-3D (480-182791-1). Elevated reporting limits (RLs) are provided.

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

General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples have been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RW-3D (480-182791-1) and EFFLUENT (480-182791-2).

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

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Client Sample ID: RW-3D

Lab Sample ID: 480-182791-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	44		20	6.4	ug/L	2		624.1	Total/NA
Tetrachloroethene	97		10	0.68	ug/L	2		624.1	Total/NA
Trichloroethene	86		10	1.2	ug/L	2		624.1	Total/NA
pH	7.45	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	21.0	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	617		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EFFLUENT

Lab Sample ID: 480-182791-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	7.86	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	21.3	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	637		10.0	4.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Client Sample ID: RW-3D

Lab Sample ID: 480-182791-1

Date Collected: 04/02/21 11:00

Matrix: Water

Date Received: 04/03/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		10	0.77	ug/L			04/05/21 14:40	2
1,1,2,2-Tetrachloroethane	ND		10	0.52	ug/L			04/05/21 14:40	2
1,1,2-Trichloroethane	ND		10	0.96	ug/L			04/05/21 14:40	2
1,1-Dichloroethane	ND		10	1.2	ug/L			04/05/21 14:40	2
1,1-Dichloroethene	ND		10	1.7	ug/L			04/05/21 14:40	2
1,2-Dichlorobenzene	ND		10	0.89	ug/L			04/05/21 14:40	2
1,2-Dichloroethane	ND		10	1.2	ug/L			04/05/21 14:40	2
1,2-Dichloroethene, Total	44		20	6.4	ug/L			04/05/21 14:40	2
1,2-Dichloropropane	ND		10	1.2	ug/L			04/05/21 14:40	2
1,3-Dichlorobenzene	ND		10	1.1	ug/L			04/05/21 14:40	2
1,4-Dichlorobenzene	ND		10	1.0	ug/L			04/05/21 14:40	2
2-Chloroethyl vinyl ether	ND		50	3.7	ug/L			04/05/21 14:40	2
Acrolein	ND		200	35	ug/L			04/05/21 14:40	2
Acrylonitrile	ND		100	3.8	ug/L			04/05/21 14:40	2
Benzene	ND		10	1.2	ug/L			04/05/21 14:40	2
Bromodichloromethane	ND		10	1.1	ug/L			04/05/21 14:40	2
Bromoform	ND		10	0.94	ug/L			04/05/21 14:40	2
Bromomethane	ND		10	2.4	ug/L			04/05/21 14:40	2
Carbon tetrachloride	ND		10	1.0	ug/L			04/05/21 14:40	2
Chlorobenzene	ND		10	0.95	ug/L			04/05/21 14:40	2
Chlorodibromomethane	ND		10	0.83	ug/L			04/05/21 14:40	2
Chloroethane	ND		10	1.7	ug/L			04/05/21 14:40	2
Chloroform	ND		10	1.1	ug/L			04/05/21 14:40	2
Chloromethane	ND		10	1.3	ug/L			04/05/21 14:40	2
cis-1,3-Dichloropropene	ND		10	0.66	ug/L			04/05/21 14:40	2
Ethylbenzene	ND		10	0.93	ug/L			04/05/21 14:40	2
Methylene Chloride	ND		10	1.6	ug/L			04/05/21 14:40	2
Tetrachloroethene	97		10	0.68	ug/L			04/05/21 14:40	2
Toluene	ND		10	0.91	ug/L			04/05/21 14:40	2
trans-1,2-Dichloroethene	ND		10	1.2	ug/L			04/05/21 14:40	2
trans-1,3-Dichloropropene	ND		10	0.88	ug/L			04/05/21 14:40	2
Trichloroethene	86		10	1.2	ug/L			04/05/21 14:40	2
Vinyl chloride	ND		10	1.5	ug/L			04/05/21 14:40	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 130		04/05/21 14:40	2
4-Bromofluorobenzene (Surr)	101		76 - 123		04/05/21 14:40	2
Dibromofluoromethane (Surr)	106		75 - 123		04/05/21 14:40	2
Toluene-d8 (Surr)	101		77 - 120		04/05/21 14:40	2

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	617		10.0	4.0	mg/L			04/07/21 03:59	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.45	HF	0.100	0.100	SU			04/05/21 15:55	1
Temperature	21.0	HF	0.00100	0.00100	Degrees C			04/05/21 15:55	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Client Sample ID: EFFLUENT

Lab Sample ID: 480-182791-2

Date Collected: 04/02/21 11:10

Matrix: Water

Date Received: 04/03/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			04/05/21 12:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			04/05/21 12:24	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			04/05/21 12:24	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			04/05/21 12:24	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			04/05/21 12:24	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			04/05/21 12:24	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			04/05/21 12:24	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			04/05/21 12:24	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			04/05/21 12:24	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			04/05/21 12:24	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			04/05/21 12:24	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			04/05/21 12:24	1
Acrolein	ND		100	17	ug/L			04/05/21 12:24	1
Acrylonitrile	ND		50	1.9	ug/L			04/05/21 12:24	1
Benzene	ND		5.0	0.60	ug/L			04/05/21 12:24	1
Bromodichloromethane	ND		5.0	0.54	ug/L			04/05/21 12:24	1
Bromoform	ND		5.0	0.47	ug/L			04/05/21 12:24	1
Bromomethane	ND		5.0	1.2	ug/L			04/05/21 12:24	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			04/05/21 12:24	1
Chlorobenzene	ND		5.0	0.48	ug/L			04/05/21 12:24	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			04/05/21 12:24	1
Chloroethane	ND		5.0	0.87	ug/L			04/05/21 12:24	1
Chloroform	ND		5.0	0.54	ug/L			04/05/21 12:24	1
Chloromethane	ND		5.0	0.64	ug/L			04/05/21 12:24	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			04/05/21 12:24	1
Ethylbenzene	ND		5.0	0.46	ug/L			04/05/21 12:24	1
Methylene Chloride	ND		5.0	0.81	ug/L			04/05/21 12:24	1
Tetrachloroethene	ND		5.0	0.34	ug/L			04/05/21 12:24	1
Toluene	ND		5.0	0.45	ug/L			04/05/21 12:24	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			04/05/21 12:24	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			04/05/21 12:24	1
Trichloroethene	ND		5.0	0.60	ug/L			04/05/21 12:24	1
Vinyl chloride	ND		5.0	0.75	ug/L			04/05/21 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 130		04/05/21 12:24	1
4-Bromofluorobenzene (Surr)	100		76 - 123		04/05/21 12:24	1
Dibromofluoromethane (Surr)	104		75 - 123		04/05/21 12:24	1
Toluene-d8 (Surr)	99		77 - 120		04/05/21 12:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	637		10.0	4.0	mg/L			04/07/21 03:59	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.86	HF	0.100	0.100	SU			04/05/21 16:01	1
Temperature	21.3	HF	0.00100	0.00100	Degrees C			04/05/21 16:01	1

Eurofins TestAmerica, Buffalo

Surrogate Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (68-130)	BFB (76-123)	DBFM (75-123)	TOL (77-120)
480-182791-1	RW-3D	101	101	106	101
480-182791-2	EFFLUENT	104	100	104	99
LCS 480-575000/6	Lab Control Sample	105	101	100	100
MB 480-575000/8	Method Blank	104	99	103	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-575000/8

Matrix: Water

Analysis Batch: 575000

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			04/05/21 11:14	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.26	ug/L			04/05/21 11:14	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			04/05/21 11:14	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			04/05/21 11:14	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			04/05/21 11:14	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			04/05/21 11:14	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			04/05/21 11:14	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			04/05/21 11:14	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			04/05/21 11:14	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			04/05/21 11:14	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			04/05/21 11:14	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			04/05/21 11:14	1
Acrolein	ND		100	17	ug/L			04/05/21 11:14	1
Acrylonitrile	ND		50	1.9	ug/L			04/05/21 11:14	1
Benzene	ND		5.0	0.60	ug/L			04/05/21 11:14	1
Bromodichloromethane	ND		5.0	0.54	ug/L			04/05/21 11:14	1
Bromoform	ND		5.0	0.47	ug/L			04/05/21 11:14	1
Bromomethane	ND		5.0	1.2	ug/L			04/05/21 11:14	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			04/05/21 11:14	1
Chlorobenzene	ND		5.0	0.48	ug/L			04/05/21 11:14	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			04/05/21 11:14	1
Chloroethane	ND		5.0	0.87	ug/L			04/05/21 11:14	1
Chloroform	ND		5.0	0.54	ug/L			04/05/21 11:14	1
Chloromethane	ND		5.0	0.64	ug/L			04/05/21 11:14	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			04/05/21 11:14	1
Ethylbenzene	ND		5.0	0.46	ug/L			04/05/21 11:14	1
Methylene Chloride	ND		5.0	0.81	ug/L			04/05/21 11:14	1
Tetrachloroethene	ND		5.0	0.34	ug/L			04/05/21 11:14	1
Toluene	ND		5.0	0.45	ug/L			04/05/21 11:14	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			04/05/21 11:14	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			04/05/21 11:14	1
Trichloroethene	ND		5.0	0.60	ug/L			04/05/21 11:14	1
Vinyl chloride	ND		5.0	0.75	ug/L			04/05/21 11:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 130		04/05/21 11:14	1
4-Bromofluorobenzene (Surr)	99		76 - 123		04/05/21 11:14	1
Dibromofluoromethane (Surr)	103		75 - 123		04/05/21 11:14	1
Toluene-d8 (Surr)	99		77 - 120		04/05/21 11:14	1

Lab Sample ID: LCS 480-575000/6

Matrix: Water

Analysis Batch: 575000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.8		ug/L		94	52 - 162
1,1,2,2-Tetrachloroethane	20.0	19.4		ug/L		97	46 - 157
1,1,2-Trichloroethane	20.0	19.6		ug/L		98	52 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-575000/6

Matrix: Water

Analysis Batch: 575000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	19.4		ug/L		97	59 - 155
1,1-Dichloroethene	20.0	18.7		ug/L		93	1 - 234
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	18 - 190
1,2-Dichloroethane	20.0	18.6		ug/L		93	49 - 155
1,2-Dichloropropane	20.0	19.0		ug/L		95	1 - 210
1,3-Dichlorobenzene	20.0	18.8		ug/L		94	59 - 156
1,4-Dichlorobenzene	20.0	18.8		ug/L		94	18 - 190
2-Chloroethyl vinyl ether	20.0	19.7	J	ug/L		99	1 - 305
Benzene	20.0	18.9		ug/L		95	37 - 151
Bromodichloromethane	20.0	18.5		ug/L		92	35 - 155
Bromoform	20.0	18.0		ug/L		90	45 - 169
Bromomethane	20.0	17.4		ug/L		87	1 - 242
Carbon tetrachloride	20.0	17.0		ug/L		85	70 - 140
Chlorobenzene	20.0	19.3		ug/L		97	37 - 160
Chlorodibromomethane	20.0	18.5		ug/L		93	53 - 149
Chloroethane	20.0	17.7		ug/L		88	14 - 230
Chloroform	20.0	19.1		ug/L		96	51 - 138
Chloromethane	20.0	17.6		ug/L		88	1 - 273
cis-1,3-Dichloropropene	20.0	18.6		ug/L		93	1 - 227
Ethylbenzene	20.0	19.4		ug/L		97	37 - 162
Methylene Chloride	20.0	18.1		ug/L		91	1 - 221
Tetrachloroethene	20.0	18.9		ug/L		95	64 - 148
Toluene	20.0	19.1		ug/L		96	47 - 150
trans-1,2-Dichloroethene	20.0	18.5		ug/L		93	54 - 156
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	17 - 183
Trichloroethene	20.0	18.7		ug/L		93	71 - 157
Vinyl chloride	20.0	17.3		ug/L		87	1 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		68 - 130
4-Bromofluorobenzene (Surr)	101		76 - 123
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	100		77 - 120

Method: 9040C - pH

Lab Sample ID: LCS 480-575109/23

Matrix: Water

Analysis Batch: 575109

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.080		SU		101	99 - 101

Lab Sample ID: LCS 480-575109/45

Matrix: Water

Analysis Batch: 575109

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.070		SU		101	99 - 101

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Method: 9040C - pH

Lab Sample ID: 480-182791-2 DU

Matrix: Water

Analysis Batch: 575109

Client Sample ID: EFFLUENT

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.86	HF	8.020		SU		2	5
Temperature	21.3	HF	21.11		Degrees C		0.9	10

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

Lab Sample ID: MB 480-575296/1

Matrix: Water

Analysis Batch: 575296

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			04/07/21 03:59	1

Lab Sample ID: LCS 480-575296/2

Matrix: Water

Analysis Batch: 575296

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	505.0		mg/L		101	85 - 115

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

GC/MS VOA

Analysis Batch: 575000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182791-1	RW-3D	Total/NA	Water	624.1	
480-182791-2	EFFLUENT	Total/NA	Water	624.1	
MB 480-575000/8	Method Blank	Total/NA	Water	624.1	
LCS 480-575000/6	Lab Control Sample	Total/NA	Water	624.1	

General Chemistry

Analysis Batch: 575109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182791-1	RW-3D	Total/NA	Water	9040C	
480-182791-2	EFFLUENT	Total/NA	Water	9040C	
LCS 480-575109/23	Lab Control Sample	Total/NA	Water	9040C	
LCS 480-575109/45	Lab Control Sample	Total/NA	Water	9040C	
480-182791-2 DU	EFFLUENT	Total/NA	Water	9040C	

Analysis Batch: 575296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-182791-1	RW-3D	Total/NA	Water	SM 2540C	
480-182791-2	EFFLUENT	Total/NA	Water	SM 2540C	
MB 480-575296/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-575296/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Client Sample ID: RW-3D

Lab Sample ID: 480-182791-1

Date Collected: 04/02/21 11:00

Matrix: Water

Date Received: 04/03/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		2	575000	04/05/21 14:40	WJD	TAL BUF
Total/NA	Analysis	9040C		1	575109	04/05/21 15:55	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	575296	04/07/21 03:59	SRW	TAL BUF

Client Sample ID: EFFLUENT

Lab Sample ID: 480-182791-2

Date Collected: 04/02/21 11:10

Matrix: Water

Date Received: 04/03/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	575000	04/05/21 12:24	WJD	TAL BUF
Total/NA	Analysis	9040C		1	575109	04/05/21 16:01	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	575296	04/07/21 03:59	SRW	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

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

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
9040C		Water	pH
9040C		Water	Temperature

Method Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-182791-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-182791-1	RW-3D	Water	04/02/21 11:00	04/03/21 08:00	
480-182791-2	EFFLUENT	Water	04/02/21 11:10	04/03/21 08:00	

Albany Chain of Custody Record

Client Information		Lab PM: Stone, Judy L		Carrier Tracking No(s): 480-156750-34562.1	
Client Contact: Andrew Talbot		E-Mail: Judy.Stone@Eurofinset.com		Page: 1 of 1	
Company: Aztech Technologies Inc		PWSID:		Job #:	
Address: 5 McCrea Hill Road		Due Date Requested:		Analysis Requested	
City: Ballston Spa		TAT Requested (days):		Preservation Codes:	
State, Zip: NY, 12020		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH M - Hexane N - None O - AsNaO2 P - Na2SO3 Q - Na2SO4 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
Phone:		PO #:			
Email: atalbot@LaBellaPC.com		CallOut 136146			
Project Name: COSCO #344035		WO #:			
Site:		Project #:			
		48005266			
		SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C Calcd - Total Dissolved Solids	904B - pH	624.1_PREC - (MOD) Priority Pollutant Volatiles	Total Numl	Special Instructions/Note:
RW-3D	4/2/21	11:00	Grab	Water	N	N	X	X	N	3	
Effluent	4/2/21	11:10	Grab	Water	N	N	X	X	N	3	
457											

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
Deliverable Requested: I, II, III, IV, Other (specify)			
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: <i>Michael Zadeh</i>		Date: 4/2/21 14:30	
Relinquished by: <i>Michael Zadeh</i>		Date: 4/2/21 17:00	
Relinquished by:		Date:	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 3.2 #1	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-182791-1

Login Number: 182791

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Stopa, Erik S

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AZTECH
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	



May 2021 Analytical Data

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-184114-1
Client Project/Site: COSCO #344035

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Robert Strang



Authorized for release by:
5/18/2021 5:30:09 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Judy Stone
Senior Project Manager
5/18/2021 5:30:09 PM

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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Job ID: 480-184114-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-184114-1

Receipt

The samples were received on 5/4/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

Method 624.1: Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: RW-3D (480-184114-1). These results have been reported and qualified.

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

General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples have been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RW-3D (480-184114-1) and EFFLUENT (480-184114-2).

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

VOA Prep

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

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Client Sample ID: RW-3D

Lab Sample ID: 480-184114-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	74		2.0	0.44	ug/L	1		624.1	Total/NA
Chloroform	0.51	J	1.0	0.33	ug/L	1		624.1	Total/NA
Methylene Chloride	0.49	J	1.0	0.32	ug/L	1		624.1	Total/NA
Tetrachloroethene	120		1.0	0.25	ug/L	1		624.1	Total/NA
trans-1,2-Dichloroethene	0.32	J	1.0	0.24	ug/L	1		624.1	Total/NA
Trichloroethene	140		1.0	0.31	ug/L	1		624.1	Total/NA
pH	7.11	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	19.5	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	624		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EFFLUENT

Lab Sample ID: 480-184114-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	0.45	J	1.0	0.32	ug/L	1		624.1	Total/NA
pH	7.77	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	20.5	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	654		10.0	4.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Client Sample ID: RW-3D

Lab Sample ID: 480-184114-1

Date Collected: 05/03/21 10:15

Matrix: Water

Date Received: 05/04/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			05/06/21 00:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			05/06/21 00:09	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			05/06/21 00:09	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			05/06/21 00:09	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			05/06/21 00:09	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/06/21 00:09	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			05/06/21 00:09	1
1,2-Dichloroethene, Total	74		2.0	0.44	ug/L			05/06/21 00:09	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			05/06/21 00:09	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			05/06/21 00:09	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			05/06/21 00:09	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			05/06/21 00:09	1
Acrolein	ND		4.0	1.1	ug/L			05/06/21 00:09	1
Acrylonitrile	ND		2.0	0.77	ug/L			05/06/21 00:09	1
Benzene	ND		1.0	0.43	ug/L			05/06/21 00:09	1
Bromoform	ND		1.0	0.54	ug/L			05/06/21 00:09	1
Bromomethane	ND		1.0	0.45	ug/L			05/06/21 00:09	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			05/06/21 00:09	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/06/21 00:09	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			05/06/21 00:09	1
Chloroethane	ND		1.0	0.32	ug/L			05/06/21 00:09	1
Chloroform	0.51	J	1.0	0.33	ug/L			05/06/21 00:09	1
Chloromethane	ND		1.0	0.43	ug/L			05/06/21 00:09	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			05/06/21 00:09	1
Bromodichloromethane	ND		1.0	0.34	ug/L			05/06/21 00:09	1
Ethylbenzene	ND		1.0	0.30	ug/L			05/06/21 00:09	1
Methylene Chloride	0.49	J	1.0	0.32	ug/L			05/06/21 00:09	1
Tetrachloroethene	120		1.0	0.25	ug/L			05/06/21 00:09	1
Toluene	ND		1.0	0.38	ug/L			05/06/21 00:09	1
trans-1,2-Dichloroethene	0.32	J	1.0	0.24	ug/L			05/06/21 00:09	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			05/06/21 00:09	1
Trichloroethene	140		1.0	0.31	ug/L			05/06/21 00:09	1
Vinyl chloride	ND		1.0	0.34	ug/L			05/06/21 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		60 - 140		05/06/21 00:09	1
4-Bromofluorobenzene	70		60 - 140		05/06/21 00:09	1
Toluene-d8 (Surr)	52	S1-	60 - 140		05/06/21 00:09	1
Dibromofluoromethane (Surr)	80		60 - 140		05/06/21 00:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	624		10.0	4.0	mg/L			05/07/21 11:27	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.11	HF	0.100	0.100	SU			05/17/21 18:47	1
Temperature	19.5	HF	0.00100	0.00100	Degrees C			05/17/21 18:47	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Client Sample ID: EFFLUENT

Lab Sample ID: 480-184114-2

Date Collected: 05/03/21 10:20

Matrix: Water

Date Received: 05/04/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			05/06/21 10:04	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			05/06/21 10:04	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			05/06/21 10:04	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			05/06/21 10:04	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			05/06/21 10:04	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/06/21 10:04	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			05/06/21 10:04	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			05/06/21 10:04	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			05/06/21 10:04	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			05/06/21 10:04	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			05/06/21 10:04	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			05/06/21 10:04	1
Acrolein	ND		4.0	1.1	ug/L			05/06/21 10:04	1
Acrylonitrile	ND		2.0	0.77	ug/L			05/06/21 10:04	1
Benzene	ND		1.0	0.43	ug/L			05/06/21 10:04	1
Bromoform	ND		1.0	0.54	ug/L			05/06/21 10:04	1
Bromomethane	ND		1.0	0.45	ug/L			05/06/21 10:04	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			05/06/21 10:04	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/06/21 10:04	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			05/06/21 10:04	1
Chloroethane	ND		1.0	0.32	ug/L			05/06/21 10:04	1
Chloroform	ND		1.0	0.33	ug/L			05/06/21 10:04	1
Chloromethane	ND		1.0	0.43	ug/L			05/06/21 10:04	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			05/06/21 10:04	1
Bromodichloromethane	ND		1.0	0.34	ug/L			05/06/21 10:04	1
Ethylbenzene	ND		1.0	0.30	ug/L			05/06/21 10:04	1
Methylene Chloride	0.45 J		1.0	0.32	ug/L			05/06/21 10:04	1
Tetrachloroethene	ND		1.0	0.25	ug/L			05/06/21 10:04	1
Toluene	ND		1.0	0.38	ug/L			05/06/21 10:04	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			05/06/21 10:04	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			05/06/21 10:04	1
Trichloroethene	ND		1.0	0.31	ug/L			05/06/21 10:04	1
Vinyl chloride	ND		1.0	0.34	ug/L			05/06/21 10:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		60 - 140		05/06/21 10:04	1
4-Bromofluorobenzene	88		60 - 140		05/06/21 10:04	1
Toluene-d8 (Surr)	88		60 - 140		05/06/21 10:04	1
Dibromofluoromethane (Surr)	95		60 - 140		05/06/21 10:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	654		10.0	4.0	mg/L			05/07/21 11:27	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.77	HF	0.100	0.100	SU			05/17/21 18:50	1
Temperature	20.5	HF	0.00100	0.00100	Degrees C			05/17/21 18:50	1

Eurofins TestAmerica, Buffalo

Surrogate Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (60-140)	BFB (60-140)	TOL (60-140)	DBFM (60-140)
480-184114-1	RW-3D	72	70	52 S1-	80
480-184114-2	EFFLUENT	90	88	88	95
LCS 460-776048/4	Lab Control Sample	86	105	88	97
LCS 460-776142/4	Lab Control Sample	78	94	86	88
LCSD 460-776048/6	Lab Control Sample Dup	87	78	70	99
LCSD 460-776142/5	Lab Control Sample Dup	87	79	86	96
MB 460-776048/10	Method Blank	86	98	87	96
MB 460-776142/9	Method Blank	65	100	86	74

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-776048/10

Matrix: Water

Analysis Batch: 776048

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			05/05/21 21:52	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			05/05/21 21:52	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			05/05/21 21:52	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			05/05/21 21:52	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			05/05/21 21:52	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/05/21 21:52	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			05/05/21 21:52	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			05/05/21 21:52	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			05/05/21 21:52	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			05/05/21 21:52	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			05/05/21 21:52	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			05/05/21 21:52	1
Acrolein	ND		4.0	1.1	ug/L			05/05/21 21:52	1
Acrylonitrile	ND		2.0	0.77	ug/L			05/05/21 21:52	1
Benzene	ND		1.0	0.43	ug/L			05/05/21 21:52	1
Bromoform	ND		1.0	0.54	ug/L			05/05/21 21:52	1
Bromomethane	ND		1.0	0.45	ug/L			05/05/21 21:52	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			05/05/21 21:52	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/05/21 21:52	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			05/05/21 21:52	1
Chloroethane	ND		1.0	0.32	ug/L			05/05/21 21:52	1
Chloroform	ND		1.0	0.33	ug/L			05/05/21 21:52	1
Chloromethane	ND		1.0	0.43	ug/L			05/05/21 21:52	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			05/05/21 21:52	1
Bromodichloromethane	ND		1.0	0.34	ug/L			05/05/21 21:52	1
Ethylbenzene	ND		1.0	0.30	ug/L			05/05/21 21:52	1
Methylene Chloride	ND		1.0	0.32	ug/L			05/05/21 21:52	1
Tetrachloroethene	ND		1.0	0.25	ug/L			05/05/21 21:52	1
Toluene	ND		1.0	0.38	ug/L			05/05/21 21:52	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			05/05/21 21:52	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			05/05/21 21:52	1
Trichloroethene	ND		1.0	0.31	ug/L			05/05/21 21:52	1
Vinyl chloride	ND		1.0	0.34	ug/L			05/05/21 21:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		60 - 140		05/05/21 21:52	1
4-Bromofluorobenzene	98		60 - 140		05/05/21 21:52	1
Toluene-d8 (Surr)	87		60 - 140		05/05/21 21:52	1
Dibromofluoromethane (Surr)	96		60 - 140		05/05/21 21:52	1

Lab Sample ID: LCS 460-776048/4

Matrix: Water

Analysis Batch: 776048

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.7		ug/L		108	70 - 130
1,1,2,2-Tetrachloroethane	20.0	17.8		ug/L		89	60 - 140
1,1,2-Trichloroethane	20.0	19.7		ug/L		99	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-776048/4

Matrix: Water

Analysis Batch: 776048

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	20.9		ug/L		105	70 - 130
1,1-Dichloroethene	20.0	22.7		ug/L		113	50 - 150
1,2-Dichlorobenzene	20.0	21.0		ug/L		105	65 - 135
1,2-Dichloroethane	20.0	21.1		ug/L		105	70 - 130
1,2-Dichloroethene, Total	40.0	44.2		ug/L		110	60 - 140
1,2-Dichloropropane	20.0	19.4		ug/L		97	35 - 165
1,3-Dichlorobenzene	20.0	20.9		ug/L		104	70 - 130
1,4-Dichlorobenzene	20.0	20.8		ug/L		104	65 - 135
2-Chloroethyl vinyl ether	20.0	17.9		ug/L		89	0.1 - 225
Acrolein	40.0	44.3		ug/L		111	10 - 150
Acrylonitrile	200	207		ug/L		104	60 - 140
Benzene	20.0	20.6		ug/L		103	65 - 135
Bromoform	20.0	21.2		ug/L		106	70 - 130
Bromomethane	20.0	32.8		ug/L		164	15 - 185
Carbon tetrachloride	20.0	23.1		ug/L		116	70 - 130
Chlorobenzene	20.0	22.2		ug/L		111	65 - 135
Chlorodibromomethane	20.0	24.3		ug/L		121	70 - 135
Chloroethane	20.0	30.2		ug/L		151	40 - 160
Chloroform	20.0	22.0		ug/L		110	70 - 135
Chloromethane	20.0	38.0		ug/L		190	0.1 - 205
cis-1,3-Dichloropropene	20.0	19.2		ug/L		96	25 - 175
Bromodichloromethane	20.0	21.3		ug/L		106	65 - 135
Ethylbenzene	20.0	19.3		ug/L		97	60 - 140
Methylene Chloride	20.0	22.3		ug/L		112	60 - 140
Tetrachloroethene	20.0	22.0		ug/L		110	70 - 130
Toluene	20.0	20.1		ug/L		100	70 - 130
trans-1,2-Dichloroethene	20.0	22.2		ug/L		111	70 - 130
trans-1,3-Dichloropropene	20.0	18.4		ug/L		92	50 - 150
Trichloroethene	20.0	21.8		ug/L		109	65 - 135
Vinyl chloride	20.0	33.7		ug/L		168	5 - 195

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		60 - 140
4-Bromofluorobenzene	105		60 - 140
Toluene-d8 (Surr)	88		60 - 140
Dibromofluoromethane (Surr)	97		60 - 140

Lab Sample ID: LCSD 460-776048/6

Matrix: Water

Analysis Batch: 776048

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1,1-Trichloroethane	20.0	21.0		ug/L		105	70 - 130	3	36
1,1,1,2,2-Tetrachloroethane	20.0	17.0		ug/L		85	60 - 140	5	61
1,1,1,2-Trichloroethane	20.0	14.9		ug/L		74	70 - 130	28	45
1,1-Dichloroethane	20.0	20.3		ug/L		102	70 - 130	3	40
1,1-Dichloroethene	20.0	22.3		ug/L		112	50 - 150	2	32
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	65 - 135	3	57

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-776048/6

Matrix: Water

Analysis Batch: 776048

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	20.0	20.5		ug/L		103	70 - 130	3	49
1,2-Dichloroethene, Total	40.0	43.9		ug/L		110	60 - 140	1	50
1,2-Dichloropropane	20.0	19.4		ug/L		97	35 - 165	0	55
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	70 - 130	2	43
1,4-Dichlorobenzene	20.0	20.2		ug/L		101	65 - 135	3	57
2-Chloroethyl vinyl ether	20.0	17.1		ug/L		85	0.1 - 225	5	71
Acrolein	40.0	41.7		ug/L		104	10 - 150	6	60
Acrylonitrile	200	205		ug/L		102	60 - 140	1	60
Benzene	20.0	14.8		ug/L		74	65 - 135	33	61
Bromoform	20.0	20.4		ug/L		102	70 - 130	4	42
Bromomethane	20.0	30.9		ug/L		154	15 - 185	6	61
Carbon tetrachloride	20.0	22.2		ug/L		111	70 - 130	4	41
Chlorobenzene	20.0	21.2		ug/L		106	65 - 135	5	53
Chlorodibromomethane	20.0	16.5		ug/L		82	70 - 135	38	50
Chloroethane	20.0	26.7		ug/L		134	40 - 160	12	78
Chloroform	20.0	21.7		ug/L		108	70 - 135	1	54
Chloromethane	20.0	34.1		ug/L		170	0.1 - 205	11	60
cis-1,3-Dichloropropene	20.0	14.4		ug/L		72	25 - 175	29	58
Bromodichloromethane	20.0	20.4		ug/L		102	65 - 135	4	56
Ethylbenzene	20.0	19.0		ug/L		95	60 - 140	1	63
Methylene Chloride	20.0	22.3		ug/L		111	60 - 140	0	28
Tetrachloroethene	20.0	16.9		ug/L		85	70 - 130	26	39
Toluene	20.0	14.7		ug/L		74	70 - 130	31	41
trans-1,2-Dichloroethene	20.0	21.8		ug/L		109	70 - 130	2	45
trans-1,3-Dichloropropene	20.0	14.9		ug/L		75	50 - 150	21	86
Trichloroethene	20.0	20.7		ug/L		104	65 - 135	5	48
Vinyl chloride	20.0	31.6		ug/L		158	5 - 195	6	66

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		60 - 140
4-Bromofluorobenzene	78		60 - 140
Toluene-d8 (Surr)	70		60 - 140
Dibromofluoromethane (Surr)	99		60 - 140

Lab Sample ID: MB 460-776142/9

Matrix: Water

Analysis Batch: 776142

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			05/06/21 09:19	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			05/06/21 09:19	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			05/06/21 09:19	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			05/06/21 09:19	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			05/06/21 09:19	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			05/06/21 09:19	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			05/06/21 09:19	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			05/06/21 09:19	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			05/06/21 09:19	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 460-776142/9

Matrix: Water

Analysis Batch: 776142

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			05/06/21 09:19	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			05/06/21 09:19	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			05/06/21 09:19	1
Acrolein	ND		4.0	1.1	ug/L			05/06/21 09:19	1
Acrylonitrile	ND		2.0	0.77	ug/L			05/06/21 09:19	1
Benzene	ND		1.0	0.43	ug/L			05/06/21 09:19	1
Bromoform	ND		1.0	0.54	ug/L			05/06/21 09:19	1
Bromomethane	ND		1.0	0.45	ug/L			05/06/21 09:19	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			05/06/21 09:19	1
Chlorobenzene	ND		1.0	0.38	ug/L			05/06/21 09:19	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			05/06/21 09:19	1
Chloroethane	ND		1.0	0.32	ug/L			05/06/21 09:19	1
Chloroform	ND		1.0	0.33	ug/L			05/06/21 09:19	1
Chloromethane	ND		1.0	0.43	ug/L			05/06/21 09:19	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			05/06/21 09:19	1
Bromodichloromethane	ND		1.0	0.34	ug/L			05/06/21 09:19	1
Ethylbenzene	ND		1.0	0.30	ug/L			05/06/21 09:19	1
Methylene Chloride	ND		1.0	0.32	ug/L			05/06/21 09:19	1
Tetrachloroethene	ND		1.0	0.25	ug/L			05/06/21 09:19	1
Toluene	ND		1.0	0.38	ug/L			05/06/21 09:19	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			05/06/21 09:19	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			05/06/21 09:19	1
Trichloroethene	ND		1.0	0.31	ug/L			05/06/21 09:19	1
Vinyl chloride	ND		1.0	0.34	ug/L			05/06/21 09:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	65		60 - 140		05/06/21 09:19	1
4-Bromofluorobenzene	100		60 - 140		05/06/21 09:19	1
Toluene-d8 (Surr)	86		60 - 140		05/06/21 09:19	1
Dibromofluoromethane (Surr)	74		60 - 140		05/06/21 09:19	1

Lab Sample ID: LCS 460-776142/4

Matrix: Water

Analysis Batch: 776142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.6		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	20.0	15.6		ug/L		78	60 - 140
1,1,2-Trichloroethane	20.0	17.2		ug/L		86	70 - 130
1,1-Dichloroethane	20.0	17.6		ug/L		88	70 - 130
1,1-Dichloroethene	20.0	21.2		ug/L		106	50 - 150
1,2-Dichlorobenzene	20.0	22.3		ug/L		111	65 - 135
1,2-Dichloroethane	20.0	16.6		ug/L		83	70 - 130
1,2-Dichloroethene, Total	40.0	37.3		ug/L		93	60 - 140
1,2-Dichloropropane	20.0	16.5		ug/L		82	35 - 165
1,3-Dichlorobenzene	20.0	18.5		ug/L		93	70 - 130
1,4-Dichlorobenzene	20.0	18.3		ug/L		91	65 - 135
2-Chloroethyl vinyl ether	20.0	16.4		ug/L		82	0.1 - 225

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-776142/4

Matrix: Water

Analysis Batch: 776142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acrolein	40.0	31.8		ug/L		80	10 - 150
Acrylonitrile	200	190		ug/L		95	60 - 140
Benzene	20.0	17.8		ug/L		89	65 - 135
Bromoform	20.0	18.6		ug/L		93	70 - 130
Bromomethane	20.0	24.8		ug/L		124	15 - 185
Carbon tetrachloride	20.0	18.8		ug/L		94	70 - 130
Chlorobenzene	20.0	18.4		ug/L		92	65 - 135
Chlorodibromomethane	20.0	19.3		ug/L		97	70 - 135
Chloroethane	20.0	23.9		ug/L		120	40 - 160
Chloroform	20.0	18.3		ug/L		91	70 - 135
Chloromethane	20.0	29.5		ug/L		148	0.1 - 205
cis-1,3-Dichloropropene	20.0	16.9		ug/L		85	25 - 175
Bromodichloromethane	20.0	16.9		ug/L		84	65 - 135
Ethylbenzene	20.0	17.7		ug/L		89	60 - 140
Methylene Chloride	20.0	19.1		ug/L		95	60 - 140
Tetrachloroethene	20.0	19.4		ug/L		97	70 - 130
Toluene	20.0	17.5		ug/L		88	70 - 130
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	70 - 130
trans-1,3-Dichloropropene	20.0	16.3		ug/L		81	50 - 150
Trichloroethene	20.0	17.7		ug/L		89	65 - 135
Vinyl chloride	20.0	26.4		ug/L		132	5 - 195

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	78		60 - 140
4-Bromofluorobenzene	94		60 - 140
Toluene-d8 (Surr)	86		60 - 140
Dibromofluoromethane (Surr)	88		60 - 140

Lab Sample ID: LCSD 460-776142/5

Matrix: Water

Analysis Batch: 776142

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.8		ug/L		104	70 - 130	12	36
1,1,2,2-Tetrachloroethane	20.0	16.8		ug/L		84	60 - 140	7	61
1,1,2-Trichloroethane	20.0	19.9		ug/L		99	70 - 130	14	45
1,1-Dichloroethane	20.0	19.9		ug/L		99	70 - 130	12	40
1,1-Dichloroethene	20.0	21.9		ug/L		110	50 - 150	4	32
1,2-Dichlorobenzene	20.0	20.3		ug/L		101	65 - 135	9	57
1,2-Dichloroethane	20.0	19.2		ug/L		96	70 - 130	15	49
1,2-Dichloroethene, Total	40.0	43.9		ug/L		110	60 - 140	16	50
1,2-Dichloropropane	20.0	18.9		ug/L		95	35 - 165	14	55
1,3-Dichlorobenzene	20.0	20.4		ug/L		102	70 - 130	10	43
1,4-Dichlorobenzene	20.0	20.6		ug/L		103	65 - 135	12	57
2-Chloroethyl vinyl ether	20.0	19.0		ug/L		95	0.1 - 225	15	71
Acrolein	40.0	31.6		ug/L		79	10 - 150	1	60
Acrylonitrile	200	208		ug/L		104	60 - 140	9	60
Benzene	20.0	14.8		ug/L		74	65 - 135	18	61

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-776142/5

Matrix: Water

Analysis Batch: 776142

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromofom	20.0	20.3		ug/L		101	70 - 130	9	42
Bromomethane	20.0	26.7		ug/L		133	15 - 185	7	61
Carbon tetrachloride	20.0	21.6		ug/L		108	70 - 130	14	41
Chlorobenzene	20.0	20.5		ug/L		102	65 - 135	11	53
Chlorodibromomethane	20.0	20.7		ug/L		104	70 - 135	7	50
Chloroethane	20.0	26.7		ug/L		133	40 - 160	11	78
Chloroform	20.0	20.8		ug/L		104	70 - 135	13	54
Chloromethane	20.0	32.0		ug/L		160	0.1 - 205	8	60
cis-1,3-Dichloropropene	20.0	19.7		ug/L		99	25 - 175	15	58
Bromodichloromethane	20.0	19.4		ug/L		97	65 - 135	14	56
Ethylbenzene	20.0	18.7		ug/L		94	60 - 140	5	63
Methylene Chloride	20.0	21.6		ug/L		108	60 - 140	12	28
Tetrachloroethene	20.0	20.6		ug/L		103	70 - 130	6	39
Toluene	20.0	20.4		ug/L		102	70 - 130	15	41
trans-1,2-Dichloroethene	20.0	22.2		ug/L		111	70 - 130	18	45
trans-1,3-Dichloropropene	20.0	18.9		ug/L		95	50 - 150	15	86
Trichloroethene	20.0	21.6		ug/L		108	65 - 135	20	48
Vinyl chloride	20.0	27.6		ug/L		138	5 - 195	5	66

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		60 - 140
4-Bromofluorobenzene	79		60 - 140
Toluene-d8 (Surr)	86		60 - 140
Dibromofluoromethane (Surr)	96		60 - 140

Method: 9040C - pH

Lab Sample ID: LCS 480-581389/1

Matrix: Water

Analysis Batch: 581389

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.030		SU		100	99 - 101

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

Lab Sample ID: MB 480-579867/1

Matrix: Water

Analysis Batch: 579867

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			05/07/21 11:27	1

Lab Sample ID: LCS 480-579867/2

Matrix: Water

Analysis Batch: 579867

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	502.0		mg/L		100	85 - 115

Eurofins TestAmerica, Buffalo

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

GC/MS VOA

Analysis Batch: 776048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184114-1	RW-3D	Total/NA	Water	624.1	
MB 460-776048/10	Method Blank	Total/NA	Water	624.1	
LCS 460-776048/4	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-776048/6	Lab Control Sample Dup	Total/NA	Water	624.1	

Analysis Batch: 776142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184114-2	EFFLUENT	Total/NA	Water	624.1	
MB 460-776142/9	Method Blank	Total/NA	Water	624.1	
LCS 460-776142/4	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-776142/5	Lab Control Sample Dup	Total/NA	Water	624.1	

General Chemistry

Analysis Batch: 579867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184114-1	RW-3D	Total/NA	Water	SM 2540C	
480-184114-2	EFFLUENT	Total/NA	Water	SM 2540C	
MB 480-579867/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-579867/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 581389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-184114-1	RW-3D	Total/NA	Water	9040C	
480-184114-2	EFFLUENT	Total/NA	Water	9040C	
LCS 480-581389/1	Lab Control Sample	Total/NA	Water	9040C	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Client Sample ID: RW-3D

Lab Sample ID: 480-184114-1

Date Collected: 05/03/21 10:15

Matrix: Water

Date Received: 05/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	776048	05/06/21 00:09	GXY	TAL EDI
Total/NA	Analysis	9040C		1	581389	05/17/21 18:47	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	579867	05/07/21 11:27	CSS	TAL BUF

Client Sample ID: EFFLUENT

Lab Sample ID: 480-184114-2

Date Collected: 05/03/21 10:20

Matrix: Water

Date Received: 05/04/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	776142	05/06/21 10:04	CJM	TAL EDI
Total/NA	Analysis	9040C		1	581389	05/17/21 18:50	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	579867	05/07/21 11:27	CSS	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

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

Analysis Method	Prep Method	Matrix	Analyte
9040C		Water	pH
9040C		Water	Temperature

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

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

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total

Method Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
9040C	pH	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-184114-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-184114-1	RW-3D	Water	05/03/21 10:15	05/04/21 08:00	
480-184114-2	EFFLUENT	Water	05/03/21 10:20	05/04/21 08:00	

Client Information		Lab PM: Stone, Judy L		Carrier Tracking No(s): 480-149114-21656.1	
Client Contact: Andrew Talbot		E-Mail: Judy.Stone@Eurofinset.com		Page: Page 1 of 1	
Company: Aztech Technologies Inc		PWSID:		Job #:	
Address: 5 McCrea Hill Road		Due Date Requested:		Analysis Requested	
City: Ballston Spa		TAT Requested (days):		Preservation Codes:	
State, Zip: NY, 12020		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - None	
Phone:		PO #: CallOut 136146		Barcode	
Email: atalbot@LaBellaPC.com		WO #:		480-184114 Chain of Custody	
Project Name: COSCO #344035		Project #: 48005266		Special Instructions/Note:	
Site:		SSOW#:		Total Numb	
Sample Identification		Sample Date		Sample Time	
RW-3D		5/3/21		1015	
Effluent		5/3/21		1020	
Matrix (W=water, S=solid, O=water, H=oil)		Sample Type (C=Comp, G=grab)		Preservation Code:	
Water		G		624.1 PREC - (MOD) Priority Pollutant Volatiles	
Water		G		9040B - PH	
Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		2540C_Calcd - Total Dissolved Solids	
<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
Possible Hazard Identification		Poison B <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Flammable <input type="checkbox"/> Non-Hazard <input type="checkbox"/>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
Deliverable Requested: I, II, III, IV, Other (specify)		Unknown <input type="checkbox"/> Radiological <input type="checkbox"/>		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
Empty Kit Relinquished by:		Date:		Special Instructions/QC Requirements:	
Relinquished by:		Date/Time: 5/3/21 12:30		Received by: [Signature]	
Relinquished by:		Date/Time: 5/3/21 1700		Received by: [Signature]	
Relinquished by:		Date/Time:		Received by:	
Custody Seal No.: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: # (2:4)	

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-184114-1

Login Number: 184114

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	AZTECH
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-184114-1

Login Number: 184114

List Source: Eurofins TestAmerica, Edison

List Number: 2

List Creation: 05/05/21 11:55 AM

Creator: Armbruster, Chris

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1452877
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7°C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



June 2021 Analytical Data

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-185715-1
Client Project/Site: COSCO #344035

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Robert Strang



Authorized for release by:
6/25/2021 5:24:26 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Judy Stone
Senior Project Manager
6/25/2021 5:24:26 PM



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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Job ID: 480-185715-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-185715-1

Receipt

The samples were received on 6/8/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA

Method 624.1: The continuing calibration verification (CCV) associated with batch 460-783367 recovered outside acceptance criteria, low biased, for Bromoform. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

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

General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples have been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RW-3D (480-185715-1) and Effluent (480-185715-2).

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

VOA Prep

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

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Client Sample ID: RW-3D

Lab Sample ID: 480-185715-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	30		2.0	0.44	ug/L	1		624.1	Total/NA
Chloroform	0.69	J	1.0	0.33	ug/L	1		624.1	Total/NA
Tetrachloroethene	46		1.0	0.25	ug/L	1		624.1	Total/NA
Trichloroethene	64		1.0	0.31	ug/L	1		624.1	Total/NA
pH	6.94	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	20.6	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	695		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Effluent

Lab Sample ID: 480-185715-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	1.2	J	2.0	0.44	ug/L	1		624.1	Total/NA
Tetrachloroethene	0.57	J	1.0	0.25	ug/L	1		624.1	Total/NA
Trichloroethene	1.2		1.0	0.31	ug/L	1		624.1	Total/NA
pH	7.72	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	21.0	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	689		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-185715-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Client Sample ID: RW-3D

Lab Sample ID: 480-185715-1

Date Collected: 06/07/21 10:15

Matrix: Water

Date Received: 06/08/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/10/21 13:34	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/10/21 13:34	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			06/10/21 13:34	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/10/21 13:34	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/10/21 13:34	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			06/10/21 13:34	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			06/10/21 13:34	1
1,2-Dichloroethene, Total	30		2.0	0.44	ug/L			06/10/21 13:34	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/10/21 13:34	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			06/10/21 13:34	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			06/10/21 13:34	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			06/10/21 13:34	1
Acrolein	ND		4.0	1.1	ug/L			06/10/21 13:34	1
Acrylonitrile	ND		2.0	0.77	ug/L			06/10/21 13:34	1
Benzene	ND		1.0	0.43	ug/L			06/10/21 13:34	1
Bromoform	ND		1.0	0.54	ug/L			06/10/21 13:34	1
Bromomethane	ND		1.0	0.45	ug/L			06/10/21 13:34	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/10/21 13:34	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/10/21 13:34	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			06/10/21 13:34	1
Chloroethane	ND		1.0	0.32	ug/L			06/10/21 13:34	1
Chloroform	0.69 J		1.0	0.33	ug/L			06/10/21 13:34	1
Chloromethane	ND		1.0	0.43	ug/L			06/10/21 13:34	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/10/21 13:34	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/10/21 13:34	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/10/21 13:34	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/10/21 13:34	1
Tetrachloroethene	46		1.0	0.25	ug/L			06/10/21 13:34	1
Toluene	ND		1.0	0.38	ug/L			06/10/21 13:34	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/10/21 13:34	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			06/10/21 13:34	1
Trichloroethene	64		1.0	0.31	ug/L			06/10/21 13:34	1
Vinyl chloride	ND		1.0	0.34	ug/L			06/10/21 13:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		60 - 140		06/10/21 13:34	1
4-Bromofluorobenzene	90		60 - 140		06/10/21 13:34	1
Toluene-d8 (Surr)	109		60 - 140		06/10/21 13:34	1
Dibromofluoromethane (Surr)	121		60 - 140		06/10/21 13:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	695		10.0	4.0	mg/L			06/09/21 13:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	6.94	HF	0.100	0.100	SU			06/10/21 10:01	1
Temperature	20.6	HF	0.00100	0.00100	Degrees C			06/10/21 10:01	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Client Sample ID: Effluent

Lab Sample ID: 480-185715-2

Date Collected: 06/07/21 10:20

Matrix: Water

Date Received: 06/08/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/10/21 13:09	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/10/21 13:09	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			06/10/21 13:09	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/10/21 13:09	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/10/21 13:09	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			06/10/21 13:09	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			06/10/21 13:09	1
1,2-Dichloroethene, Total	1.2	J	2.0	0.44	ug/L			06/10/21 13:09	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/10/21 13:09	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			06/10/21 13:09	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			06/10/21 13:09	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			06/10/21 13:09	1
Acrolein	ND		4.0	1.1	ug/L			06/10/21 13:09	1
Acrylonitrile	ND		2.0	0.77	ug/L			06/10/21 13:09	1
Benzene	ND		1.0	0.43	ug/L			06/10/21 13:09	1
Bromoform	ND		1.0	0.54	ug/L			06/10/21 13:09	1
Bromomethane	ND		1.0	0.45	ug/L			06/10/21 13:09	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/10/21 13:09	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/10/21 13:09	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			06/10/21 13:09	1
Chloroethane	ND		1.0	0.32	ug/L			06/10/21 13:09	1
Chloroform	ND		1.0	0.33	ug/L			06/10/21 13:09	1
Chloromethane	ND		1.0	0.43	ug/L			06/10/21 13:09	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/10/21 13:09	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/10/21 13:09	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/10/21 13:09	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/10/21 13:09	1
Tetrachloroethene	0.57	J	1.0	0.25	ug/L			06/10/21 13:09	1
Toluene	ND		1.0	0.38	ug/L			06/10/21 13:09	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/10/21 13:09	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			06/10/21 13:09	1
Trichloroethene	1.2		1.0	0.31	ug/L			06/10/21 13:09	1
Vinyl chloride	ND		1.0	0.34	ug/L			06/10/21 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		60 - 140		06/10/21 13:09	1
4-Bromofluorobenzene	84		60 - 140		06/10/21 13:09	1
Toluene-d8 (Surr)	104		60 - 140		06/10/21 13:09	1
Dibromofluoromethane (Surr)	117		60 - 140		06/10/21 13:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	689		10.0	4.0	mg/L			06/09/21 13:53	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.72	HF	0.100	0.100	SU			06/10/21 10:04	1
Temperature	21.0	HF	0.00100	0.00100	Degrees C			06/10/21 10:04	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-185715-3

Date Collected: 06/07/21 00:00

Matrix: Water

Date Received: 06/08/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/10/21 12:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/10/21 12:33	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			06/10/21 12:33	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/10/21 12:33	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/10/21 12:33	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			06/10/21 12:33	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			06/10/21 12:33	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			06/10/21 12:33	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/10/21 12:33	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			06/10/21 12:33	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			06/10/21 12:33	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			06/10/21 12:33	1
Acrolein	ND		4.0	1.1	ug/L			06/10/21 12:33	1
Acrylonitrile	ND		2.0	0.77	ug/L			06/10/21 12:33	1
Benzene	ND		1.0	0.43	ug/L			06/10/21 12:33	1
Bromoform	ND		1.0	0.54	ug/L			06/10/21 12:33	1
Bromomethane	ND		1.0	0.45	ug/L			06/10/21 12:33	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/10/21 12:33	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/10/21 12:33	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			06/10/21 12:33	1
Chloroethane	ND		1.0	0.32	ug/L			06/10/21 12:33	1
Chloroform	ND		1.0	0.33	ug/L			06/10/21 12:33	1
Chloromethane	ND		1.0	0.43	ug/L			06/10/21 12:33	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/10/21 12:33	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/10/21 12:33	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/10/21 12:33	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/10/21 12:33	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/10/21 12:33	1
Toluene	ND		1.0	0.38	ug/L			06/10/21 12:33	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/10/21 12:33	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			06/10/21 12:33	1
Trichloroethene	ND		1.0	0.31	ug/L			06/10/21 12:33	1
Vinyl chloride	ND		1.0	0.34	ug/L			06/10/21 12:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		60 - 140		06/10/21 12:33	1
4-Bromofluorobenzene	89		60 - 140		06/10/21 12:33	1
Toluene-d8 (Surr)	110		60 - 140		06/10/21 12:33	1
Dibromofluoromethane (Surr)	124		60 - 140		06/10/21 12:33	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(60-140)	(60-140)	(60-140)	(60-140)
480-185715-1	RW-3D	124	90	109	121
480-185715-2	Effluent	120	84	104	117
480-185715-3	Trip Blank	127	89	110	124
LCS 460-783367/3	Lab Control Sample	118	87	108	115
LCSD 460-783367/4	Lab Control Sample Dup	118	86	107	116
MB 460-783367/8	Method Blank	123	87	111	121

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-783367/8

Matrix: Water

Analysis Batch: 783367

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/10/21 09:37	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/10/21 09:37	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			06/10/21 09:37	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/10/21 09:37	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/10/21 09:37	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			06/10/21 09:37	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			06/10/21 09:37	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			06/10/21 09:37	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/10/21 09:37	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			06/10/21 09:37	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			06/10/21 09:37	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			06/10/21 09:37	1
Acrolein	ND		4.0	1.1	ug/L			06/10/21 09:37	1
Acrylonitrile	ND		2.0	0.77	ug/L			06/10/21 09:37	1
Benzene	ND		1.0	0.43	ug/L			06/10/21 09:37	1
Bromoform	ND		1.0	0.54	ug/L			06/10/21 09:37	1
Bromomethane	ND		1.0	0.45	ug/L			06/10/21 09:37	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/10/21 09:37	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/10/21 09:37	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			06/10/21 09:37	1
Chloroethane	ND		1.0	0.32	ug/L			06/10/21 09:37	1
Chloroform	ND		1.0	0.33	ug/L			06/10/21 09:37	1
Chloromethane	ND		1.0	0.43	ug/L			06/10/21 09:37	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/10/21 09:37	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/10/21 09:37	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/10/21 09:37	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/10/21 09:37	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/10/21 09:37	1
Toluene	ND		1.0	0.38	ug/L			06/10/21 09:37	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/10/21 09:37	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			06/10/21 09:37	1
Trichloroethene	ND		1.0	0.31	ug/L			06/10/21 09:37	1
Vinyl chloride	ND		1.0	0.34	ug/L			06/10/21 09:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		60 - 140		06/10/21 09:37	1
4-Bromofluorobenzene	87		60 - 140		06/10/21 09:37	1
Toluene-d8 (Surr)	111		60 - 140		06/10/21 09:37	1
Dibromofluoromethane (Surr)	121		60 - 140		06/10/21 09:37	1

Lab Sample ID: LCS 460-783367/3

Matrix: Water

Analysis Batch: 783367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.8		ug/L		109	70 - 130
1,1,2,2-Tetrachloroethane	20.0	22.9		ug/L		114	60 - 140
1,1,2-Trichloroethane	20.0	20.8		ug/L		104	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-783367/3

Matrix: Water

Analysis Batch: 783367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	26.1		ug/L		130	70 - 130
1,1-Dichloroethene	20.0	24.3		ug/L		121	50 - 150
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	65 - 135
1,2-Dichloroethane	20.0	22.9		ug/L		114	70 - 130
1,2-Dichloroethene, Total	40.0	48.7		ug/L		122	60 - 140
1,2-Dichloropropane	20.0	27.3		ug/L		136	35 - 165
1,3-Dichlorobenzene	20.0	19.0		ug/L		95	70 - 130
1,4-Dichlorobenzene	20.0	17.8		ug/L		89	65 - 135
2-Chloroethyl vinyl ether	20.0	28.3		ug/L		141	0.1 - 225
Acrolein	40.6	57.1		ug/L		141	10 - 150
Acrylonitrile	200	221		ug/L		110	60 - 140
Benzene	20.0	22.0		ug/L		110	65 - 135
Bromoform	20.0	15.1		ug/L		75	70 - 130
Bromomethane	20.0	11.3		ug/L		57	15 - 185
Carbon tetrachloride	20.0	21.0		ug/L		105	70 - 130
Chlorobenzene	20.0	19.7		ug/L		98	65 - 135
Chlorodibromomethane	20.0	17.7		ug/L		88	70 - 135
Chloroethane	20.0	21.7		ug/L		109	40 - 160
Chloroform	20.0	23.7		ug/L		119	70 - 135
Chloromethane	20.0	21.6		ug/L		108	0.1 - 205
cis-1,3-Dichloropropene	20.0	21.7		ug/L		109	25 - 175
Bromodichloromethane	20.0	24.0		ug/L		120	65 - 135
Ethylbenzene	20.0	20.0		ug/L		100	60 - 140
Methylene Chloride	20.0	25.5		ug/L		128	60 - 140
Tetrachloroethene	20.0	16.4		ug/L		82	70 - 130
Toluene	20.0	20.6		ug/L		103	70 - 130
trans-1,2-Dichloroethene	20.0	24.7		ug/L		123	70 - 130
trans-1,3-Dichloropropene	20.0	20.3		ug/L		102	50 - 150
Trichloroethene	20.0	24.6		ug/L		123	65 - 135
Vinyl chloride	20.0	24.4		ug/L		122	5 - 195

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		60 - 140
4-Bromofluorobenzene	87		60 - 140
Toluene-d8 (Surr)	108		60 - 140
Dibromofluoromethane (Surr)	115		60 - 140

Lab Sample ID: LCSD 460-783367/4

Matrix: Water

Analysis Batch: 783367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1,1-Trichloroethane	20.0	21.8		ug/L		109	70 - 130	0	36
1,1,1,2,2-Tetrachloroethane	20.0	22.3		ug/L		111	60 - 140	3	61
1,1,1,2-Trichloroethane	20.0	20.4		ug/L		102	70 - 130	2	45
1,1-Dichloroethane	20.0	25.8		ug/L		129	70 - 130	1	40
1,1-Dichloroethene	20.0	24.5		ug/L		123	50 - 150	1	32
1,2-Dichlorobenzene	20.0	18.6		ug/L		93	65 - 135	0	57

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-783367/4

Matrix: Water

Analysis Batch: 783367

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	20.0	22.4		ug/L		112	70 - 130	2	49
1,2-Dichloroethene, Total	40.0	47.5		ug/L		119	60 - 140	2	50
1,2-Dichloropropane	20.0	26.9		ug/L		135	35 - 165	1	55
1,3-Dichlorobenzene	20.0	18.6		ug/L		93	70 - 130	2	43
1,4-Dichlorobenzene	20.0	17.8		ug/L		89	65 - 135	0	57
2-Chloroethyl vinyl ether	20.0	27.3		ug/L		136	0.1 - 225	4	71
Acrolein	40.6	52.2		ug/L		129	10 - 150	9	60
Acrylonitrile	200	217		ug/L		109	60 - 140	2	60
Benzene	20.0	21.4		ug/L		107	65 - 135	3	61
Bromoform	20.0	14.7		ug/L		74	70 - 130	2	42
Bromomethane	20.0	12.4		ug/L		62	15 - 185	9	61
Carbon tetrachloride	20.0	21.2		ug/L		106	70 - 130	1	41
Chlorobenzene	20.0	19.1		ug/L		96	65 - 135	3	53
Chlorodibromomethane	20.0	17.7		ug/L		88	70 - 135	0	50
Chloroethane	20.0	21.4		ug/L		107	40 - 160	1	78
Chloroform	20.0	23.3		ug/L		117	70 - 135	2	54
Chloromethane	20.0	22.1		ug/L		110	0.1 - 205	2	60
cis-1,3-Dichloropropene	20.0	21.1		ug/L		106	25 - 175	3	58
Bromodichloromethane	20.0	24.1		ug/L		120	65 - 135	0	56
Ethylbenzene	20.0	19.3		ug/L		97	60 - 140	4	63
Methylene Chloride	20.0	24.7		ug/L		124	60 - 140	3	28
Tetrachloroethene	20.0	16.2		ug/L		81	70 - 130	2	39
Toluene	20.0	20.4		ug/L		102	70 - 130	1	41
trans-1,2-Dichloroethene	20.0	23.9		ug/L		120	70 - 130	3	45
trans-1,3-Dichloropropene	20.0	19.6		ug/L		98	50 - 150	4	86
Trichloroethene	20.0	24.3		ug/L		122	65 - 135	1	48
Vinyl chloride	20.0	24.4		ug/L		122	5 - 195	0	66

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		60 - 140
4-Bromofluorobenzene	86		60 - 140
Toluene-d8 (Surr)	107		60 - 140
Dibromofluoromethane (Surr)	116		60 - 140

Method: 9040C - pH

Lab Sample ID: LCS 480-584841/1

Matrix: Water

Analysis Batch: 584841

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.050		SU		101	99 - 101

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

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

Lab Sample ID: MB 480-584667/1

Matrix: Water

Analysis Batch: 584667

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			06/09/21 13:53	1

Lab Sample ID: LCS 480-584667/2

Matrix: Water

Analysis Batch: 584667

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	501	498.0		mg/L		99	85 - 115

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

GC/MS VOA

Analysis Batch: 783367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185715-1	RW-3D	Total/NA	Water	624.1	
480-185715-2	Effluent	Total/NA	Water	624.1	
480-185715-3	Trip Blank	Total/NA	Water	624.1	
MB 460-783367/8	Method Blank	Total/NA	Water	624.1	
LCS 460-783367/3	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-783367/4	Lab Control Sample Dup	Total/NA	Water	624.1	

General Chemistry

Analysis Batch: 584667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185715-1	RW-3D	Total/NA	Water	SM 2540C	
480-185715-2	Effluent	Total/NA	Water	SM 2540C	
MB 480-584667/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-584667/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 584841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-185715-1	RW-3D	Total/NA	Water	9040C	
480-185715-2	Effluent	Total/NA	Water	9040C	
LCS 480-584841/1	Lab Control Sample	Total/NA	Water	9040C	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Client Sample ID: RW-3D

Lab Sample ID: 480-185715-1

Date Collected: 06/07/21 10:15

Matrix: Water

Date Received: 06/08/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	783367	06/10/21 13:34	AAT	TAL EDI
Total/NA	Analysis	9040C		1	584841	06/10/21 10:01	JPS	TAL BUF
Total/NA	Analysis	SM 2540C		1	584667	06/09/21 13:53	JGO	TAL BUF

Client Sample ID: Effluent

Lab Sample ID: 480-185715-2

Date Collected: 06/07/21 10:20

Matrix: Water

Date Received: 06/08/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	783367	06/10/21 13:09	AAT	TAL EDI
Total/NA	Analysis	9040C		1	584841	06/10/21 10:04	JPS	TAL BUF
Total/NA	Analysis	SM 2540C		1	584667	06/09/21 13:53	JGO	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-185715-3

Date Collected: 06/07/21 00:00

Matrix: Water

Date Received: 06/08/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	783367	06/10/21 12:33	AAT	TAL EDI

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

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

Analysis Method	Prep Method	Matrix	Analyte
9040C		Water	pH
9040C		Water	Temperature

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

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

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total

Method Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
9040C	pH	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600


TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-185715-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-185715-1	RW-3D	Water	06/07/21 10:15	06/08/21 08:00	
480-185715-2	Effluent	Water	06/07/21 10:20	06/08/21 08:00	
480-185715-3	Trip Blank	Water	06/07/21 00:00	06/08/21 08:00	

Client Information Client Contact: Andrew Talbot Company: Aztech Technologies Inc Address: 5 McCrea Hill Road City: Ballston Spa State, Zip: NY, 12020 Phone: _____ Email: atalbot@LaBellaPC.com Project Name: COSCO #344035 Site: _____		Lab PM: Stone, Judy L E-Mail: Judy.Stone@Eurofinst.com State of Origin: _____ Carrier Tracking No(s): _____ COC No: 480-156752-34562.1 Page: 1 of 1 Job #: _____	
Due Date Requested: TAT Requested (days): _____ Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No PO #: _____ CallOut 136146 WO #: _____ Project #: 48005266 SSOW#: _____		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: _____ M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Sample Identification Sample Date: 6/7/21 10:15 Sample Time: 6:00 Sample Type (C=Comp, G=grab): G=grab Matrix (Newater, Seawater, Onwastewater, A=Air): Water Preservation Code: _____ Field Filtered Sample (Yes or No): _____ Perform MS/MSD (Yes or No): _____ 2540C Calcd - Total Dissolved Solids: _____ 9040B - pH: _____ 624.1 PREC - (MOD) Priority Pollutant Volatiles: _____ Total Number of Containers: 8		Special Instructions/Note:  480-185715 Chain of Custody	
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological Deliverable Requested: I, II, III, IV, Other (specify) _____		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: _____	
Empty Kit Relinquished by: Relinquished by: Andrew Talbot Relinquished on: 6/7/21 Relinquished by: _____		Method of Shipment: Received by: _____ Date/Time: 6/7/21 13:30 Received by: _____ Date/Time: 6/7/21 17:00 Received by: _____ Date/Time: 6/18/21 08:00	
Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 3.1 #1	



Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-185715-1

Login Number: 185715

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.1 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	No: Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-185715-1

Login Number: 185715

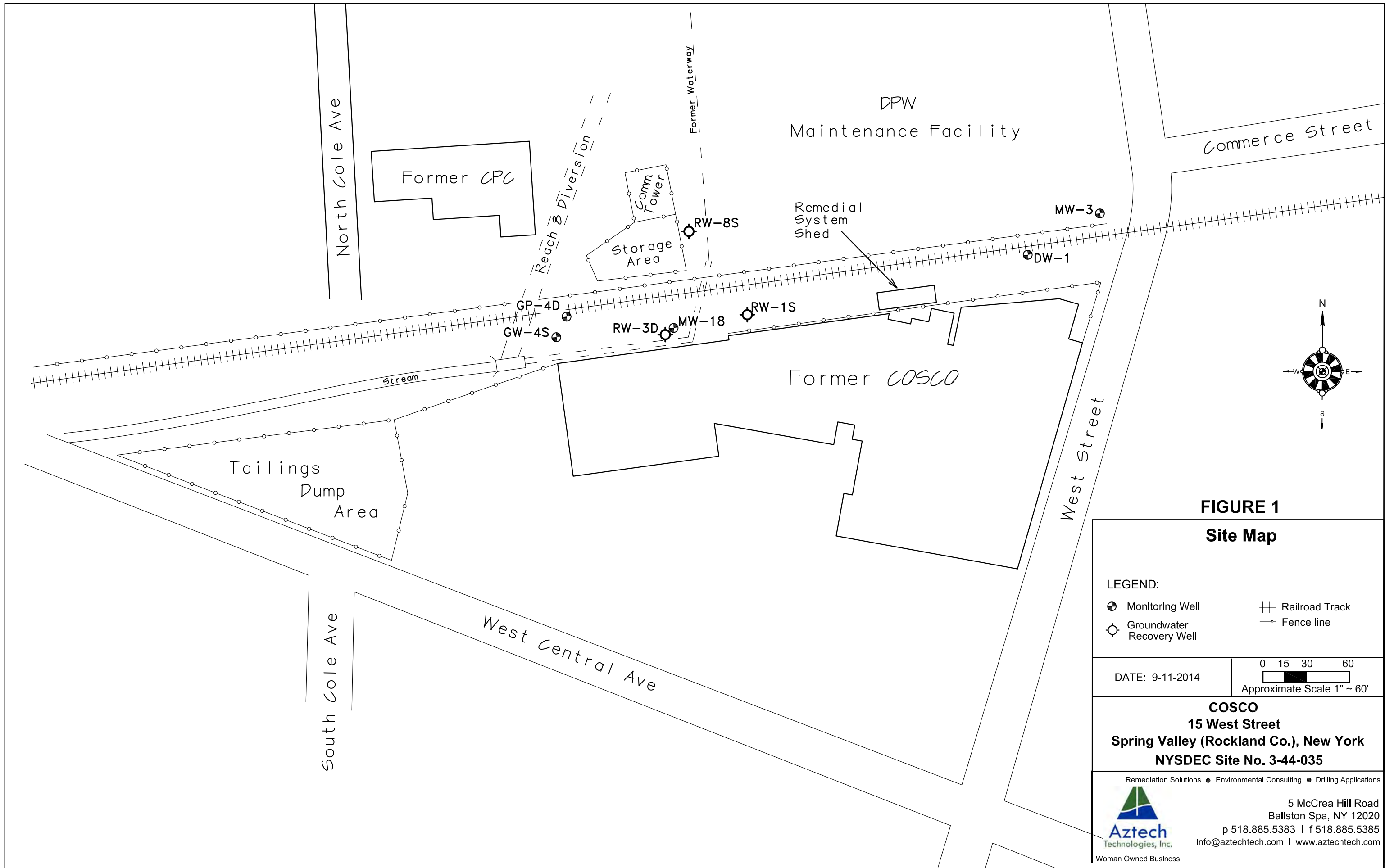
List Number: 2

Creator: Meyers, Gary

List Source: Eurofins TestAmerica, Edison

List Creation: 06/10/21 11:09 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1513127
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	



January 11, 2021

Robert Strang, E.I.T.
New York State Department of Environmental Conservation
Remedial Section D, Bureau E
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7014

**RE: Third and Fourth Quarter 2021 Operating Summary Report – Cosco Site
Site Number 344035**

Mr. Strang,

LaBella Associates (LaBella) has prepared the following correspondence to summarize the operation and maintenance (O&M) activities and laboratory analytical results for the New York State Department of Environmental Conservation (NYSDEC) COSCO site located in Spring Valley, New York. The activities summarized within this report include the third and fourth quarters of 2021 operation and maintenance O&M, and system sampling events conducted by LaBella. Typical tasks performed during O&M activities include:

- System performance readings (flow, pressure, control settings);
- Well gauging;
- Monthly system sampling and laboratory analysis;
- System maintenance;
- Grounds maintenance.

Non-routing O&M activities include:

- Annual SSDS inspection;
- Semi-annual site-wide sampling

Non-routine O&M activities are reported in separate reports.

Site Background

The site is located in the Village of Spring Valley, Rockland County, New York. The site is bordered by a Conrail right of way to the north, West Central Avenue to the south, West Street to the east. The western end of the site is bounded by the intersection between the Conrail right of way and West Central Avenue (**Figure 1**).

The Consolidated Stamp Company (COSCO) historically used trichloroethylene (TCE) in a vapor degreasing process as part of their operation and also discharged wastewater containing TCE into a drainage feature known as the “Reach B Diversion”.

The remedial objective for groundwater at the COSCO site (as per the August 1999 Amendment to the Record of Decision) is to contain the site related contaminants by extracting groundwater from overburden and bedrock, treat the groundwater onsite to remove volatile organic compounds



(VOC's), and discharge the treated groundwater. The primary contaminants of concern (COCs) are TCE, tetrachloroethylene (PCE) and Cis-1-2-dichloroethene (DCE), and degradation byproducts.

The site includes eight (8) groundwater monitoring and/or recovery wells from which monitoring of groundwater quality can be conducted. Five (5) of these wells are completed within the shallow unconsolidated deposits and three (3) are completed within the bedrock.

The current groundwater extraction and treatment (GWE&T) system became operational at the site in January, 2012. This system has extracted groundwater from the overburden via recovery wells RW-1S and RW-8S, and from the bedrock via well RW-3D. The GWE&T system currently extracts groundwater from the bedrock lift well RW-3D. Extracted groundwater is conveyed via underground piping from the recovery well(s) to the treatment system shed located in the area along the Conrail right of way north of the COSCO building. The extracted groundwater is temporarily held in a 1,500-gallon polyethylene batch tank prior to treatment. Treatment is via two (2) bag filter units (connected in a parallel configuration) followed by air stripping. Once air stripping is completed, the treated water is discharged to the "Reach B Diversion" via underground piping.

Procedures

The GWE&T system O&M is via a combination of daily e-mails from the systems programmable logic controller (PLC), and bi-weekly site visits. The daily emails include specific system performance readings (flows, pressures, etc.) that help to evaluate system performance and anticipate O&M tasks to be performed during the bi-weekly site visits.

- System Performance Readings:
 - System Flow – system flow rate and flow total data is transmitted daily via email. Data includes flow rate from active recovery well(s) (currently RW-3D) and flow total. The emails also include data regarding system operational status and system alarms.
 - System Pressure – Pressure readings are recorded during site inspections. Pressure readings are recorded at: the transfer pump; at each bag filter, and; at the effluent pump. Pressure readings are also monitored via the daily emails at each bag filter and the air stripper.
 - Control Settings – Transfer pump, effluent pump and air stripper blower variable frequency drive (VFD) readings are recorded during bi-weekly site inspections. This data is monitored to ensure that the system motors are operating within prescribed parameters.
- Well Gauging – The eight (8) site wells are gauged during site visits to determine the depth to groundwater using an electronic water level meter graduated in 0.01 foot intervals. Groundwater measurements are taken from the top of well casings. The wells are gauged: while the remedial system is running; immediately after the system is shutdown, and; 30 minutes after the system is shutdown. The system is restarted when gauging is completed.
- Monthly System Sampling and Laboratory Analysis – The system influent and effluent (post-treatment) is sampled monthly for laboratory analysis using EPA Method 624. The samples are also analyzed for total dissolved solids (TDS) and acidity (pH). Influent samples are collected from a sample port located on the RW-3D influent line. No other wells are being utilized for groundwater extraction at this time. Effluent samples are collected from a sample port located after the air stripper discharge pump. The samples are delivered under chain of custody protocols to Test America Laboratories, Inc. Laboratory reports are attached.
- System Maintenance – typical routine system maintenance includes: bag filter changes, valve maintenance/cleaning. Frequent non-routine maintenance typically includes: pump and blower repairs/replacement; valve replacement; air stripper cleaning.



System Flow

During the third and fourth quarters of 2021, a total of 3,471,665 gallons were treated at an average flow rate of approximately 18,868 gallons per day.

Operation and Maintenance Site Inspections

Compiled below is a summary of significant O&M tasks and events pertaining to the COSCO site. These tasks were completed during site visits completed by Aztech for the time period reported herein.

July 8, 2021 (Sampling)

The system was down upon arrival. The system was restarted. Samples were collected and the system was operational upon departure.

July 13, 2021 (Non-Sampling)

The system was operational upon arrival. Bag filters were changed, and samples were not collected. The air stripper was taken apart and cleaned. The system was restarted and remained operational upon departure.

August 4, 2021 (Sampling)

The system was operational upon arrival. Samples were collected and the system was operational upon departure.

August 18, 2021 (Non-Sampling)

The system was operational upon arrival. Bag filters were changed, and samples were not collected. The system was operational upon departure.

September 22, 2021 (Sampling)

The system was down upon arrival due to the discharge pump seizing up. The pump was removed and cleaned, and the system was restarted. Samples were collected and the system was operational upon departure.

September 30, 2021 (Non-Sampling)

The system was operational upon arrival. Bag filters were changed, and samples were not collected. Air stripper trays were cleaned. The system was operational upon departure.

October 11, 2021 (Sampling)

The system was down upon arrival. Samples were taken and the system was turned off. Bag filters were removed for profiling (for drum removal) and replaced. The system was restarted and remained operational upon departure.

October 28, 2021 (Non-Sampling)

The system was operational upon arrival. The effluent pump stopped working and a replacement pump was installed. Bag filters were changed. Samples were not collected. The system was restarted and remained operational upon departure.

November 8, 2021 (Sampling)

The system was operational upon arrival. Samples were collected, and malfunctioning external lights were replaced. The system was operational upon departure.

**November 18, 2021 (Non-Sampling)**

The system was operational upon arrival. Bag filters were changed. Samples were not collected. The system was operational upon departure.

December 1, 2021 (Non-Sampling)

The system was down upon arrival. The system was restarted. Bag filters were changed. Samples were not taken. The system was operational upon departure.

December 16, 2021 (Sampling)

The system was operational upon arrival. Samples were collected. The system was operational upon departure.

Summary and Recommendations

Site visits and system sampling continue on a bi-monthly basis. During each non-sampling site visit, bag filters are replaced and valves are cleaned. Additionally, system performance readings as well as water level readings are taken. Samples are collected from the RW-3D, and effluent sampling ports at the first site visit of the month.

LaBella recommends continuing the treatment of recovered groundwater at the site utilizing air stripper treatment system. Further recommendations are outlined in the sites periodic review.

LaBella would like to thank you for the opportunity to offer our services for this site.

If you have any questions or comments regarding the information contained herein, please contact our office at 518-885-5383.

Respectfully submitted,

LaBella Associates

Sabrina Campfield
Project Manager

ATTACHMENTS:

Laboratory Analytical Reports
Figure 1



July 2021 Analytical Data

ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-239698-1
Client Project/Site: COSCO #344035

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Robert Strang



Authorized for release by:
7/30/2021 10:22:19 AM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Job ID: 460-239698-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

Job Narrative 460-239698-1

Receipt

The samples were received on 7/28/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2° C.

Receipt Exceptions

The client requested that this sample ID be changed from what was listed on the chain of custody, from RW-1-072721 to RW-1S-072721. RW-1S-072721 (460-239698-4)

GC/MS VOA

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

VOA Prep

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

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: MW-3-072721

Lab Sample ID: 460-239698-1

No Detections.

Client Sample ID: RW-8S-072721

Lab Sample ID: 460-239698-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	7.7		2.0	0.44	ug/L		1		624.1	Total/NA
Tetrachloroethene	0.89	J	1.0	0.25	ug/L		1		624.1	Total/NA
trans-1,2-Dichloroethene	0.24	J	1.0	0.24	ug/L		1		624.1	Total/NA
Trichloroethene	10		1.0	0.31	ug/L		1		624.1	Total/NA
Vinyl chloride	0.53	J	1.0	0.34	ug/L		1		624.1	Total/NA

Client Sample ID: RW-3D-072721

Lab Sample ID: 460-239698-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	32		2.0	0.44	ug/L		1		624.1	Total/NA
Chloroform	0.53	J	1.0	0.33	ug/L		1		624.1	Total/NA
Tetrachloroethene	68		1.0	0.25	ug/L		1		624.1	Total/NA
Trichloroethene	69		1.0	0.31	ug/L		1		624.1	Total/NA

Client Sample ID: RW-1S-072721

Lab Sample ID: 460-239698-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	1.5	J	2.0	0.44	ug/L		1		624.1	Total/NA
Tetrachloroethene	0.75	J	1.0	0.25	ug/L		1		624.1	Total/NA
Trichloroethene	6.4		1.0	0.31	ug/L		1		624.1	Total/NA

Client Sample ID: DW-1-072721

Lab Sample ID: 460-239698-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Chloroform	0.37	J	1.0	0.33	ug/L		1		624.1	Total/NA
Tetrachloroethene	2.2		1.0	0.25	ug/L		1		624.1	Total/NA
Trichloroethene	1.9		1.0	0.31	ug/L		1		624.1	Total/NA

Client Sample ID: TripBlank2-072721

Lab Sample ID: 460-239698-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: MW-3-072721

Lab Sample ID: 460-239698-1

Date Collected: 07/27/21 11:35

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 04:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/29/21 04:29	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 04:29	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/29/21 04:29	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/29/21 04:29	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 04:29	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/29/21 04:29	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/29/21 04:29	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/29/21 04:29	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 04:29	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 04:29	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 04:29	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 04:29	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 04:29	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 04:29	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 04:29	1
Bromomethane	ND		1.0	0.45	ug/L			07/29/21 04:29	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 04:29	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 04:29	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 04:29	1
Chloroethane	ND		1.0	0.32	ug/L			07/29/21 04:29	1
Chloroform	ND		1.0	0.33	ug/L			07/29/21 04:29	1
Chloromethane	ND		1.0	0.43	ug/L			07/29/21 04:29	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 04:29	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/29/21 04:29	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 04:29	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 04:29	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/29/21 04:29	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 04:29	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 04:29	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 04:29	1
Trichloroethene	ND		1.0	0.31	ug/L			07/29/21 04:29	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/29/21 04:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		60 - 140		07/29/21 04:29	1
4-Bromofluorobenzene	92		60 - 140		07/29/21 04:29	1
Toluene-d8 (Surr)	101		60 - 140		07/29/21 04:29	1
Dibromofluoromethane (Surr)	96		60 - 140		07/29/21 04:29	1

Client Sample ID: RW-8S-072721

Lab Sample ID: 460-239698-2

Date Collected: 07/27/21 11:40

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 04:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/29/21 04:52	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 04:52	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/29/21 04:52	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: RW-8S-072721

Lab Sample ID: 460-239698-2

Date Collected: 07/27/21 11:40

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/29/21 04:52	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 04:52	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/29/21 04:52	1
1,2-Dichloroethene, Total	7.7		2.0	0.44	ug/L			07/29/21 04:52	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/29/21 04:52	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 04:52	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 04:52	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 04:52	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 04:52	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 04:52	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 04:52	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 04:52	1
Bromomethane	ND		1.0	0.45	ug/L			07/29/21 04:52	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 04:52	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 04:52	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 04:52	1
Chloroethane	ND		1.0	0.32	ug/L			07/29/21 04:52	1
Chloroform	ND		1.0	0.33	ug/L			07/29/21 04:52	1
Chloromethane	ND		1.0	0.43	ug/L			07/29/21 04:52	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 04:52	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/29/21 04:52	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 04:52	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 04:52	1
Tetrachloroethene	0.89 J		1.0	0.25	ug/L			07/29/21 04:52	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 04:52	1
trans-1,2-Dichloroethene	0.24 J		1.0	0.24	ug/L			07/29/21 04:52	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 04:52	1
Trichloroethene	10		1.0	0.31	ug/L			07/29/21 04:52	1
Vinyl chloride	0.53 J		1.0	0.34	ug/L			07/29/21 04:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		60 - 140					07/29/21 04:52	1
4-Bromofluorobenzene	90		60 - 140					07/29/21 04:52	1
Toluene-d8 (Surr)	100		60 - 140					07/29/21 04:52	1
Dibromofluoromethane (Surr)	96		60 - 140					07/29/21 04:52	1

Client Sample ID: RW-3D-072721

Lab Sample ID: 460-239698-3

Date Collected: 07/27/21 10:40

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 06:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/29/21 06:01	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 06:01	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/29/21 06:01	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/29/21 06:01	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 06:01	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/29/21 06:01	1
1,2-Dichloroethene, Total	32		2.0	0.44	ug/L			07/29/21 06:01	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: RW-3D-072721

Lab Sample ID: 460-239698-3

Date Collected: 07/27/21 10:40

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/29/21 06:01	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 06:01	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 06:01	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 06:01	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 06:01	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 06:01	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 06:01	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 06:01	1
Bromomethane	ND		1.0	0.45	ug/L			07/29/21 06:01	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 06:01	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 06:01	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 06:01	1
Chloroethane	ND		1.0	0.32	ug/L			07/29/21 06:01	1
Chloroform	0.53	J	1.0	0.33	ug/L			07/29/21 06:01	1
Chloromethane	ND		1.0	0.43	ug/L			07/29/21 06:01	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 06:01	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/29/21 06:01	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 06:01	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 06:01	1
Tetrachloroethene	68		1.0	0.25	ug/L			07/29/21 06:01	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 06:01	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 06:01	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 06:01	1
Trichloroethene	69		1.0	0.31	ug/L			07/29/21 06:01	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/29/21 06:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		60 - 140		07/29/21 06:01	1
4-Bromofluorobenzene	92		60 - 140		07/29/21 06:01	1
Toluene-d8 (Surr)	100		60 - 140		07/29/21 06:01	1
Dibromofluoromethane (Surr)	98		60 - 140		07/29/21 06:01	1

Client Sample ID: RW-1S-072721

Lab Sample ID: 460-239698-4

Date Collected: 07/27/21 14:00

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 05:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/29/21 05:15	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 05:15	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/29/21 05:15	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/29/21 05:15	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 05:15	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/29/21 05:15	1
1,2-Dichloroethene, Total	1.5	J	2.0	0.44	ug/L			07/29/21 05:15	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/29/21 05:15	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 05:15	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 05:15	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 05:15	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: RW-1S-072721

Lab Sample ID: 460-239698-4

Date Collected: 07/27/21 14:00

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	ND		4.0	1.1	ug/L			07/29/21 05:15	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 05:15	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 05:15	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 05:15	1
Bromomethane	ND		1.0	0.45	ug/L			07/29/21 05:15	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 05:15	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 05:15	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 05:15	1
Chloroethane	ND		1.0	0.32	ug/L			07/29/21 05:15	1
Chloroform	ND		1.0	0.33	ug/L			07/29/21 05:15	1
Chloromethane	ND		1.0	0.43	ug/L			07/29/21 05:15	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 05:15	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/29/21 05:15	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 05:15	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 05:15	1
Tetrachloroethene	0.75	J	1.0	0.25	ug/L			07/29/21 05:15	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 05:15	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 05:15	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 05:15	1
Trichloroethene	6.4		1.0	0.31	ug/L			07/29/21 05:15	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/29/21 05:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		60 - 140		07/29/21 05:15	1
4-Bromofluorobenzene	90		60 - 140		07/29/21 05:15	1
Toluene-d8 (Surr)	101		60 - 140		07/29/21 05:15	1
Dibromofluoromethane (Surr)	96		60 - 140		07/29/21 05:15	1

Client Sample ID: DW-1-072721

Lab Sample ID: 460-239698-5

Date Collected: 07/27/21 14:40

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 05:38	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/29/21 05:38	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 05:38	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/29/21 05:38	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/29/21 05:38	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 05:38	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/29/21 05:38	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/29/21 05:38	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/29/21 05:38	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 05:38	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 05:38	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 05:38	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 05:38	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 05:38	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 05:38	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 05:38	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: DW-1-072721

Lab Sample ID: 460-239698-5

Date Collected: 07/27/21 14:40

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	ND		1.0	0.45	ug/L			07/29/21 05:38	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 05:38	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 05:38	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 05:38	1
Chloroethane	ND		1.0	0.32	ug/L			07/29/21 05:38	1
Chloroform	0.37	J	1.0	0.33	ug/L			07/29/21 05:38	1
Chloromethane	ND		1.0	0.43	ug/L			07/29/21 05:38	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 05:38	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/29/21 05:38	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 05:38	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 05:38	1
Tetrachloroethene	2.2		1.0	0.25	ug/L			07/29/21 05:38	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 05:38	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 05:38	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 05:38	1
Trichloroethene	1.9		1.0	0.31	ug/L			07/29/21 05:38	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/29/21 05:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		60 - 140		07/29/21 05:38	1
4-Bromofluorobenzene	88		60 - 140		07/29/21 05:38	1
Toluene-d8 (Surr)	100		60 - 140		07/29/21 05:38	1
Dibromofluoromethane (Surr)	96		60 - 140		07/29/21 05:38	1

Client Sample ID: TripBlank2-072721

Lab Sample ID: 460-239698-6

Date Collected: 07/27/21 00:00

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/29/21 04:05	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/29/21 04:05	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/29/21 04:05	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/29/21 04:05	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/29/21 04:05	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/29/21 04:05	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/29/21 04:05	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/29/21 04:05	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/29/21 04:05	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/29/21 04:05	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/29/21 04:05	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/29/21 04:05	1
Acrolein	ND		4.0	1.1	ug/L			07/29/21 04:05	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/29/21 04:05	1
Benzene	ND		1.0	0.43	ug/L			07/29/21 04:05	1
Bromoform	ND		1.0	0.54	ug/L			07/29/21 04:05	1
Bromomethane	ND		1.0	0.45	ug/L			07/29/21 04:05	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/29/21 04:05	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/29/21 04:05	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/29/21 04:05	1

Eurofins TestAmerica, Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: TripBlank2-072721

Lab Sample ID: 460-239698-6

Date Collected: 07/27/21 00:00

Matrix: Water

Date Received: 07/28/21 10:00

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		1.0	0.32	ug/L			07/29/21 04:05	1
Chloroform	ND		1.0	0.33	ug/L			07/29/21 04:05	1
Chloromethane	ND		1.0	0.43	ug/L			07/29/21 04:05	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/29/21 04:05	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/29/21 04:05	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/29/21 04:05	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/29/21 04:05	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/29/21 04:05	1
Toluene	ND		1.0	0.38	ug/L			07/29/21 04:05	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/29/21 04:05	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/29/21 04:05	1
Trichloroethene	ND		1.0	0.31	ug/L			07/29/21 04:05	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/29/21 04:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		60 - 140		07/29/21 04:05	1
4-Bromofluorobenzene	88		60 - 140		07/29/21 04:05	1
Toluene-d8 (Surr)	101		60 - 140		07/29/21 04:05	1
Dibromofluoromethane (Surr)	95		60 - 140		07/29/21 04:05	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(60-140)	(60-140)	(60-140)	(60-140)
460-239698-1	MW-3-072721	105	92	101	96
460-239698-2	RW-8S-072721	106	90	100	96
460-239698-3	RW-3D-072721	104	92	100	98
460-239698-4	RW-1S-072721	106	90	101	96
460-239698-5	DW-1-072721	107	88	100	96
460-239698-5 MS	DW-1-072721	103	91	101	95
460-239698-5 MSD	DW-1-072721	104	91	101	97
460-239698-6	TripBlank2-072721	110	88	101	95
LCS 460-793132/5	Lab Control Sample	103	92	101	95
MB 460-793132/9	Method Blank	107	89	100	96

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-793132/9

Matrix: Water

Analysis Batch: 793132

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/28/21 22:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/28/21 22:19	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			07/28/21 22:19	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/28/21 22:19	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/28/21 22:19	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			07/28/21 22:19	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			07/28/21 22:19	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			07/28/21 22:19	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/28/21 22:19	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			07/28/21 22:19	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			07/28/21 22:19	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			07/28/21 22:19	1
Acrolein	ND		4.0	1.1	ug/L			07/28/21 22:19	1
Acrylonitrile	ND		2.0	0.77	ug/L			07/28/21 22:19	1
Benzene	ND		1.0	0.43	ug/L			07/28/21 22:19	1
Bromoform	ND		1.0	0.54	ug/L			07/28/21 22:19	1
Bromomethane	ND		1.0	0.45	ug/L			07/28/21 22:19	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/28/21 22:19	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/28/21 22:19	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			07/28/21 22:19	1
Chloroethane	ND		1.0	0.32	ug/L			07/28/21 22:19	1
Chloroform	ND		1.0	0.33	ug/L			07/28/21 22:19	1
Chloromethane	ND		1.0	0.43	ug/L			07/28/21 22:19	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/28/21 22:19	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/28/21 22:19	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/28/21 22:19	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/28/21 22:19	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/28/21 22:19	1
Toluene	ND		1.0	0.38	ug/L			07/28/21 22:19	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/28/21 22:19	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			07/28/21 22:19	1
Trichloroethene	ND		1.0	0.31	ug/L			07/28/21 22:19	1
Vinyl chloride	ND		1.0	0.34	ug/L			07/28/21 22:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		60 - 140		07/28/21 22:19	1
4-Bromofluorobenzene	89		60 - 140		07/28/21 22:19	1
Toluene-d8 (Surr)	100		60 - 140		07/28/21 22:19	1
Dibromofluoromethane (Surr)	96		60 - 140		07/28/21 22:19	1

Lab Sample ID: LCS 460-793132/5

Matrix: Water

Analysis Batch: 793132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.0		ug/L		90	70 - 130
1,1,2,2-Tetrachloroethane	20.0	25.6		ug/L		128	60 - 140
1,1,2-Trichloroethane	20.0	23.8		ug/L		119	70 - 130

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-793132/5

Matrix: Water

Analysis Batch: 793132

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	21.2		ug/L		106	70 - 130
1,1-Dichloroethene	20.0	16.6		ug/L		83	50 - 150
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	65 - 135
1,2-Dichloroethane	20.0	19.9		ug/L		99	70 - 130
1,2-Dichloroethene, Total	40.0	37.5		ug/L		94	60 - 140
1,2-Dichloropropane	20.0	23.9		ug/L		119	35 - 165
1,3-Dichlorobenzene	20.0	20.9		ug/L		104	70 - 130
1,4-Dichlorobenzene	20.0	21.3		ug/L		107	65 - 135
2-Chloroethyl vinyl ether	20.0	24.1		ug/L		120	0.1 - 225
Acrolein	40.6	42.6		ug/L		105	10 - 150
Acrylonitrile	200	256		ug/L		128	60 - 140
Benzene	20.0	21.6		ug/L		108	65 - 135
Bromoform	20.0	16.5		ug/L		83	70 - 130
Bromomethane	20.0	17.2		ug/L		86	15 - 185
Carbon tetrachloride	20.0	16.0		ug/L		80	70 - 130
Chlorobenzene	20.0	20.7		ug/L		103	65 - 135
Chlorodibromomethane	20.0	17.8		ug/L		89	70 - 135
Chloroethane	20.0	16.7		ug/L		83	40 - 160
Chloroform	20.0	19.9		ug/L		100	70 - 135
Chloromethane	20.0	22.4		ug/L		112	0.1 - 205
cis-1,3-Dichloropropene	20.0	21.6		ug/L		108	25 - 175
Bromodichloromethane	20.0	20.1		ug/L		100	65 - 135
Ethylbenzene	20.0	20.7		ug/L		104	60 - 140
Methylene Chloride	20.0	18.5		ug/L		93	60 - 140
Tetrachloroethene	20.0	18.1		ug/L		90	70 - 130
Toluene	20.0	21.7		ug/L		108	70 - 130
trans-1,2-Dichloroethene	20.0	18.4		ug/L		92	70 - 130
trans-1,3-Dichloropropene	20.0	21.8		ug/L		109	50 - 150
Trichloroethene	20.0	19.4		ug/L		97	65 - 135
Vinyl chloride	20.0	19.8		ug/L		99	5 - 195

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
4-Bromofluorobenzene	92		60 - 140
Toluene-d8 (Surr)	101		60 - 140
Dibromofluoromethane (Surr)	95		60 - 140

Lab Sample ID: 460-239698-5 MS

Matrix: Water

Analysis Batch: 793132

Client Sample ID: DW-1-072721

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		20.0	17.5		ug/L		88	52 - 162
1,1,2,2-Tetrachloroethane	ND		20.0	25.6		ug/L		128	46 - 157
1,1,2-Trichloroethane	ND		20.0	23.5		ug/L		118	52 - 150
1,1-Dichloroethane	ND		20.0	21.3		ug/L		106	59 - 155
1,1-Dichloroethene	ND		20.0	18.0		ug/L		90	0.1 - 234
1,2-Dichlorobenzene	ND		20.0	20.5		ug/L		103	18 - 190

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-239698-5 MS

Matrix: Water

Analysis Batch: 793132

Client Sample ID: DW-1-072721

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	ND		20.0	19.6		ug/L		98	49 - 155
1,2-Dichloroethene, Total	ND		40.0	37.8		ug/L		95	60 - 140
1,2-Dichloropropane	ND		20.0	23.2		ug/L		116	0.1 - 210
1,3-Dichlorobenzene	ND		20.0	19.6		ug/L		98	59 - 156
1,4-Dichlorobenzene	ND		20.0	20.7		ug/L		104	18 - 190
2-Chloroethyl vinyl ether	ND		20.0	22.7		ug/L		113	0.1 - 305
Acrolein	ND		40.6	45.8		ug/L		113	10 - 150
Acrylonitrile	ND		200	255		ug/L		127	40 - 160
Benzene	ND		20.0	21.4		ug/L		107	37 - 151
Bromoform	ND		20.0	17.4		ug/L		87	45 - 169
Bromomethane	ND		20.0	18.0		ug/L		90	0.1 - 242
Carbon tetrachloride	ND		20.0	15.6		ug/L		78	70 - 140
Chlorobenzene	ND		20.0	19.5		ug/L		98	37 - 160
Chlorodibromomethane	ND		20.0	17.6		ug/L		88	53 - 149
Chloroethane	ND		20.0	16.9		ug/L		84	14 - 230
Chloroform	0.37	J	20.0	20.0		ug/L		98	51 - 138
Chloromethane	ND		20.0	23.0		ug/L		115	0.1 - 273
cis-1,3-Dichloropropene	ND		20.0	20.8		ug/L		104	0.1 - 227
Bromodichloromethane	ND		20.0	19.5		ug/L		98	35 - 155
Ethylbenzene	ND		20.0	20.0		ug/L		100	37 - 162
Methylene Chloride	ND		20.0	19.2		ug/L		96	0.1 - 221
Tetrachloroethene	2.2		20.0	18.6		ug/L		82	64 - 148
Toluene	ND		20.0	20.9		ug/L		104	47 - 150
trans-1,2-Dichloroethene	ND		20.0	18.7		ug/L		94	54 - 156
trans-1,3-Dichloropropene	ND		20.0	20.9		ug/L		105	17 - 183
Trichloroethene	1.9		20.0	20.9		ug/L		95	70 - 157
Vinyl chloride	ND		20.0	21.8		ug/L		109	0.1 - 251

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		60 - 140
4-Bromofluorobenzene	91		60 - 140
Toluene-d8 (Surr)	101		60 - 140
Dibromofluoromethane (Surr)	95		60 - 140

Lab Sample ID: 460-239698-5 MSD

Matrix: Water

Analysis Batch: 793132

Client Sample ID: DW-1-072721

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		20.0	19.0		ug/L		95	52 - 162	8	36
1,1,2,2-Tetrachloroethane	ND		20.0	25.3		ug/L		126	46 - 157	1	61
1,1,2-Trichloroethane	ND		20.0	23.7		ug/L		118	52 - 150	1	45
1,1-Dichloroethane	ND		20.0	22.3		ug/L		112	59 - 155	5	40
1,1-Dichloroethene	ND		20.0	20.6		ug/L		103	0.1 - 234	13	32
1,2-Dichlorobenzene	ND		20.0	21.4		ug/L		107	18 - 190	4	57
1,2-Dichloroethane	ND		20.0	20.3		ug/L		101	49 - 155	3	49
1,2-Dichloroethene, Total	ND		40.0	40.3		ug/L		101	60 - 140	6	50
1,2-Dichloropropane	ND		20.0	23.8		ug/L		119	0.1 - 210	2	55

Eurofins TestAmerica, Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 460-239698-5 MSD

Matrix: Water

Analysis Batch: 793132

Client Sample ID: DW-1-072721

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,3-Dichlorobenzene	ND		20.0	20.2		ug/L		101	59 - 156	3	43
1,4-Dichlorobenzene	ND		20.0	21.2		ug/L		106	18 - 190	2	57
2-Chloroethyl vinyl ether	ND		20.0	22.6		ug/L		113	0.1 - 305	0	71
Acrolein	ND		40.6	45.8		ug/L		113	10 - 150	0	60
Acrylonitrile	ND		200	253		ug/L		127	40 - 160	1	60
Benzene	ND		20.0	22.3		ug/L		111	37 - 151	4	61
Bromoform	ND		20.0	17.6		ug/L		88	45 - 169	1	42
Bromomethane	ND		20.0	19.1		ug/L		96	0.1 - 242	6	61
Carbon tetrachloride	ND		20.0	17.1		ug/L		86	70 - 140	10	41
Chlorobenzene	ND		20.0	20.6		ug/L		103	37 - 160	5	53
Chlorodibromomethane	ND		20.0	18.2		ug/L		91	53 - 149	3	50
Chloroethane	ND		20.0	18.9		ug/L		94	14 - 230	11	78
Chloroform	0.37	J	20.0	20.8		ug/L		102	51 - 138	4	54
Chloromethane	ND		20.0	24.7		ug/L		124	0.1 - 273	7	60
cis-1,3-Dichloropropene	ND		20.0	20.7		ug/L		103	0.1 - 227	1	58
Bromodichloromethane	ND		20.0	20.5		ug/L		103	35 - 155	5	56
Ethylbenzene	ND		20.0	21.5		ug/L		107	37 - 162	7	63
Methylene Chloride	ND		20.0	20.8		ug/L		104	0.1 - 221	8	28
Tetrachloroethene	2.2		20.0	20.2		ug/L		90	64 - 148	8	39
Toluene	ND		20.0	21.9		ug/L		109	47 - 150	5	41
trans-1,2-Dichloroethene	ND		20.0	20.3		ug/L		101	54 - 156	8	45
trans-1,3-Dichloropropene	ND		20.0	20.9		ug/L		104	17 - 183	0	86
Trichloroethene	1.9		20.0	21.7		ug/L		99	70 - 157	4	48
Vinyl chloride	ND		20.0	22.8		ug/L		114	0.1 - 251	4	66

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		60 - 140
4-Bromofluorobenzene	91		60 - 140
Toluene-d8 (Surr)	101		60 - 140
Dibromofluoromethane (Surr)	97		60 - 140

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

GC/MS VOA

Analysis Batch: 793132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-239698-1	MW-3-072721	Total/NA	Water	624.1	
460-239698-2	RW-8S-072721	Total/NA	Water	624.1	
460-239698-3	RW-3D-072721	Total/NA	Water	624.1	
460-239698-4	RW-1S-072721	Total/NA	Water	624.1	
460-239698-5	DW-1-072721	Total/NA	Water	624.1	
460-239698-6	TripBlank2-072721	Total/NA	Water	624.1	
MB 460-793132/9	Method Blank	Total/NA	Water	624.1	
LCS 460-793132/5	Lab Control Sample	Total/NA	Water	624.1	
460-239698-5 MS	DW-1-072721	Total/NA	Water	624.1	
460-239698-5 MSD	DW-1-072721	Total/NA	Water	624.1	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Client Sample ID: MW-3-072721

Lab Sample ID: 460-239698-1

Date Collected: 07/27/21 11:35

Matrix: Water

Date Received: 07/28/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	793132	07/29/21 04:29	MZS	TAL EDI

Client Sample ID: RW-8S-072721

Lab Sample ID: 460-239698-2

Date Collected: 07/27/21 11:40

Matrix: Water

Date Received: 07/28/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	793132	07/29/21 04:52	MZS	TAL EDI

Client Sample ID: RW-3D-072721

Lab Sample ID: 460-239698-3

Date Collected: 07/27/21 10:40

Matrix: Water

Date Received: 07/28/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	793132	07/29/21 06:01	MZS	TAL EDI

Client Sample ID: RW-1S-072721

Lab Sample ID: 460-239698-4

Date Collected: 07/27/21 14:00

Matrix: Water

Date Received: 07/28/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	793132	07/29/21 05:15	MZS	TAL EDI

Client Sample ID: DW-1-072721

Lab Sample ID: 460-239698-5

Date Collected: 07/27/21 14:40

Matrix: Water

Date Received: 07/28/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	793132	07/29/21 05:38	MZS	TAL EDI

Client Sample ID: TripBlank2-072721

Lab Sample ID: 460-239698-6

Date Collected: 07/27/21 00:00

Matrix: Water

Date Received: 07/28/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	793132	07/29/21 04:05	MZS	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

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

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total

Method Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary


Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 460-239698-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-239698-1	MW-3-072721	Water	07/27/21 11:35	07/28/21 10:00
460-239698-2	RW-8S-072721	Water	07/27/21 11:40	07/28/21 10:00
460-239698-3	RW-3D-072721	Water	07/27/21 10:40	07/28/21 10:00
460-239698-4	RW-1S-072721	Water	07/27/21 14:00	07/28/21 10:00
460-239698-5	DW-1-072721	Water	07/27/21 14:40	07/28/21 10:00
460-239698-5 MS	DW-1-072721	Water	07/27/21 14:40	07/28/21 10:00
460-239698-5 MSD	DW-1-072721	Water	07/27/21 14:40	07/28/21 10:00
460-239698-6	TripBlank2-072721	Water	07/27/21 00:00	07/28/21 10:00

NYSDEC COSCO Site - Chain of Custody									
Site Name / Location:					Sampling Program:				
COSCO Site / Spring Valley, NY					1st SA GW Sampling				
Laboratory:					Analysis Holding Time:				
To: Robert Hornung, Paul D'Ambale					3 days from sample collection to analysis				
Address: 91 New Karner Road, Suite 106, Albany, N.Y., 12203					Package Requirement:				
Phone: (518) 724 7272					Full ASP Category B Data Package and FQIS				
Fax: (518) 869 2915					4 file EDD				
Email: Robert.Hornung@ramboll.com, Paul.D'Ambale@ramboll.com					Project Number:				
					1910075217404200SLTB				
					EDD Format: FQIS 4 File				
Phone: (716) 691 2600									
Sample Identification					Preservatives: (see key at bottom)				
Unique Field Sample ID	Sample Location	Sample Date (mm/dd/yy)	Sample Time (hh:mm)	Sample Type (see key)	Sample Matrix (see key)	# of Containers	Grab (G) or Composite (C)	Field Filtered? (Y / N)	VOCA by USEPA Method 624
1 MW-3-072721	MW-3	7/27/2021	11:35	N	WG	3	G	N	X
2 RW-8S-072721	RW-8S	7/27/2021	11:40	N	WG	3	G	N	X
3 RW-3D-072721	RW-3D	7/27/2021	10:40	N	WG	3	G	N	X
4 RW-1-072721	RW-1S	7/27/2021	14:00	N	WG	3	G	N	X
5 DW-1-072721	DW-1	7/27/2021	14:40	N	WG	3	G	N	X
6 DW-1-MS-072721	DW-1	7/27/2021	14:40	MS	WQ	3	G	N	X
7 DW-1-MSD-072721	DW-1	7/27/2021	14:40	MS	WQ	3	G	N	X
8 TripBlank2-072721	---	7/27/2021	---	TB	WQ	2	G	N	X
9									
10									
11									
12									

3-Day HUSH RUSH



460-239698 Chain of Custody

1-239698

270612.28

OS# ✓

Job Number:

Number of Coolers:

IR Gun #

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.7	2.2	Cooler #4:	7	7
Cooler #2:	7	7	Cooler #5:	7	7
Cooler #3:	7	7	Cooler #6:	7	7
			Cooler #7:	7	7
			Cooler #8:	7	7
			Cooler #9:	7	7

[illegible]

If pH adjustments are required record the information below:

Sample No(s). adjusted:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

Initials:

Q

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-239698-1

Login Number: 239698

List Source: Eurofins TestAmerica, Edison

List Number: 1

Creator: DiGuardia, Joseph L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



August 2021 Analytical Data

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-187974-1
Client Project/Site: COSCO #344035

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Robert Strang



Authorized for release by:
8/21/2021 10:43:41 AM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Judy Stone
Senior Project Manager
8/21/2021 10:43:41 AM

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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Job ID: 480-187974-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-187974-1

Comments

No additional comments.

Receipt

The samples were received on 8/5/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

Method 624.1: The continuing calibration verification (CCV) associated with batch 460-794855 recovered above the upper control limit for 1,2-Dichloroethane and Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 624.1: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-794855 recovered outside control limits for the following analytes: 1,1,1-Trichloroethane, 1,1-Dichloroethane, 1,2-Dichloroethane and Carbon tetrachloride. These analytes were biased high in the LCS/LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 624.1: Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following the laboratory control sample duplicate (LCSD), method blank and samples contained an allowable number of surrogate compounds outside limits: RW-3D (480-187974-1), Effluent (480-187974-2), (LCSD 460-794855/6) and (MB 460-794855/10). These results have been reported and qualified.

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

General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples have been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RW-3D (480-187974-1) and Effluent (480-187974-2).

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

VOA Prep

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

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Client Sample ID: RW-3D

Lab Sample ID: 480-187974-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	24		2.0	0.44	ug/L	1		624.1	Total/NA
Chloroform	0.73	J	1.0	0.33	ug/L	1		624.1	Total/NA
Tetrachloroethene	56		1.0	0.25	ug/L	1		624.1	Total/NA
Trichloroethene	58		1.0	0.31	ug/L	1		624.1	Total/NA
pH	7.46	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	20.7	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	624		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Effluent

Lab Sample ID: 480-187974-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	8.22	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	20.9	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	641		10.0	4.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Client Sample ID: RW-3D

Lab Sample ID: 480-187974-1

Date Collected: 08/04/21 10:40

Matrix: Water

Date Received: 08/05/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*+	1.0	0.24	ug/L			08/06/21 14:20	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/06/21 14:20	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			08/06/21 14:20	1
1,1-Dichloroethane	ND	*+	1.0	0.26	ug/L			08/06/21 14:20	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/06/21 14:20	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			08/06/21 14:20	1
1,2-Dichloroethane	ND	*+	1.0	0.84	ug/L			08/06/21 14:20	1
1,2-Dichloroethene, Total	24		2.0	0.44	ug/L			08/06/21 14:20	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/06/21 14:20	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			08/06/21 14:20	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			08/06/21 14:20	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			08/06/21 14:20	1
Acrolein	ND		4.0	1.1	ug/L			08/06/21 14:20	1
Acrylonitrile	ND		2.0	0.77	ug/L			08/06/21 14:20	1
Benzene	ND		1.0	0.43	ug/L			08/06/21 14:20	1
Bromoform	ND		1.0	0.54	ug/L			08/06/21 14:20	1
Bromomethane	ND		1.0	0.45	ug/L			08/06/21 14:20	1
Carbon tetrachloride	ND	*+	1.0	0.21	ug/L			08/06/21 14:20	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/06/21 14:20	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			08/06/21 14:20	1
Chloroethane	ND		1.0	0.32	ug/L			08/06/21 14:20	1
Chloroform	0.73	J	1.0	0.33	ug/L			08/06/21 14:20	1
Chloromethane	ND		1.0	0.43	ug/L			08/06/21 14:20	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/06/21 14:20	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/06/21 14:20	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/06/21 14:20	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/06/21 14:20	1
Tetrachloroethene	56		1.0	0.25	ug/L			08/06/21 14:20	1
Toluene	ND		1.0	0.38	ug/L			08/06/21 14:20	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/06/21 14:20	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			08/06/21 14:20	1
Trichloroethene	58		1.0	0.31	ug/L			08/06/21 14:20	1
Vinyl chloride	ND		1.0	0.34	ug/L			08/06/21 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	146	S1+	60 - 140		08/06/21 14:20	1
4-Bromofluorobenzene	105		60 - 140		08/06/21 14:20	1
Toluene-d8 (Surr)	101		60 - 140		08/06/21 14:20	1
Dibromofluoromethane (Surr)	128		60 - 140		08/06/21 14:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	624		10.0	4.0	mg/L			08/10/21 10:39	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.46	HF	0.100	0.100	SU			08/06/21 13:36	1
Temperature	20.7	HF	0.00100	0.00100	Degrees C			08/06/21 13:36	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Client Sample ID: Effluent

Lab Sample ID: 480-187974-2

Date Collected: 08/04/21 10:30

Matrix: Water

Date Received: 08/05/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	*+	1.0	0.24	ug/L			08/06/21 13:57	1
1,1,1,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/06/21 13:57	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			08/06/21 13:57	1
1,1-Dichloroethane	ND	*+	1.0	0.26	ug/L			08/06/21 13:57	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/06/21 13:57	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			08/06/21 13:57	1
1,2-Dichloroethane	ND	*+	1.0	0.84	ug/L			08/06/21 13:57	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			08/06/21 13:57	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/06/21 13:57	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			08/06/21 13:57	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			08/06/21 13:57	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			08/06/21 13:57	1
Acrolein	ND		4.0	1.1	ug/L			08/06/21 13:57	1
Acrylonitrile	ND		2.0	0.77	ug/L			08/06/21 13:57	1
Benzene	ND		1.0	0.43	ug/L			08/06/21 13:57	1
Bromoform	ND		1.0	0.54	ug/L			08/06/21 13:57	1
Bromomethane	ND		1.0	0.45	ug/L			08/06/21 13:57	1
Carbon tetrachloride	ND	*+	1.0	0.21	ug/L			08/06/21 13:57	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/06/21 13:57	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			08/06/21 13:57	1
Chloroethane	ND		1.0	0.32	ug/L			08/06/21 13:57	1
Chloroform	ND		1.0	0.33	ug/L			08/06/21 13:57	1
Chloromethane	ND		1.0	0.43	ug/L			08/06/21 13:57	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/06/21 13:57	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/06/21 13:57	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/06/21 13:57	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/06/21 13:57	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/06/21 13:57	1
Toluene	ND		1.0	0.38	ug/L			08/06/21 13:57	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/06/21 13:57	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			08/06/21 13:57	1
Trichloroethene	ND		1.0	0.31	ug/L			08/06/21 13:57	1
Vinyl chloride	ND		1.0	0.34	ug/L			08/06/21 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	144	S1+	60 - 140		08/06/21 13:57	1
4-Bromofluorobenzene	103		60 - 140		08/06/21 13:57	1
Toluene-d8 (Surr)	101		60 - 140		08/06/21 13:57	1
Dibromofluoromethane (Surr)	127		60 - 140		08/06/21 13:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	641		10.0	4.0	mg/L			08/10/21 10:39	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.22	HF	0.100	0.100	SU			08/06/21 13:34	1
Temperature	20.9	HF	0.00100	0.00100	Degrees C			08/06/21 13:34	1

Eurofins TestAmerica, Buffalo

Surrogate Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(60-140)	(60-140)	(60-140)	(60-140)
480-187974-1	RW-3D	146 S1+	105	101	128
480-187974-2	Effluent	144 S1+	103	101	127
LCS 460-794855/5	Lab Control Sample	135	109	104	125
LCSD 460-794855/6	Lab Control Sample Dup	142 S1+	113	107	127
MB 460-794855/10	Method Blank	141 S1+	107	100	127

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 460-794855/10

Matrix: Water

Analysis Batch: 794855

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			08/06/21 12:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/06/21 12:03	1
1,1,2-Trichloroethane	ND		1.0	0.15	ug/L			08/06/21 12:03	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/06/21 12:03	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/06/21 12:03	1
1,2-Dichlorobenzene	ND		1.0	0.19	ug/L			08/06/21 12:03	1
1,2-Dichloroethane	ND		1.0	0.84	ug/L			08/06/21 12:03	1
1,2-Dichloroethene, Total	ND		2.0	0.44	ug/L			08/06/21 12:03	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/06/21 12:03	1
1,3-Dichlorobenzene	ND		1.0	0.13	ug/L			08/06/21 12:03	1
1,4-Dichlorobenzene	ND		1.0	0.18	ug/L			08/06/21 12:03	1
2-Chloroethyl vinyl ether	ND		1.0	0.91	ug/L			08/06/21 12:03	1
Acrolein	ND		4.0	1.1	ug/L			08/06/21 12:03	1
Acrylonitrile	ND		2.0	0.77	ug/L			08/06/21 12:03	1
Benzene	ND		1.0	0.43	ug/L			08/06/21 12:03	1
Bromoform	ND		1.0	0.54	ug/L			08/06/21 12:03	1
Bromomethane	ND		1.0	0.45	ug/L			08/06/21 12:03	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/06/21 12:03	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/06/21 12:03	1
Chlorodibromomethane	ND		1.0	0.13	ug/L			08/06/21 12:03	1
Chloroethane	ND		1.0	0.32	ug/L			08/06/21 12:03	1
Chloroform	ND		1.0	0.33	ug/L			08/06/21 12:03	1
Chloromethane	ND		1.0	0.43	ug/L			08/06/21 12:03	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/06/21 12:03	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/06/21 12:03	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/06/21 12:03	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/06/21 12:03	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/06/21 12:03	1
Toluene	ND		1.0	0.38	ug/L			08/06/21 12:03	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/06/21 12:03	1
trans-1,3-Dichloropropene	ND		1.0	0.22	ug/L			08/06/21 12:03	1
Trichloroethene	ND		1.0	0.31	ug/L			08/06/21 12:03	1
Vinyl chloride	ND		1.0	0.34	ug/L			08/06/21 12:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	141	S1+	60 - 140		08/06/21 12:03	1
4-Bromofluorobenzene	107		60 - 140		08/06/21 12:03	1
Toluene-d8 (Surr)	100		60 - 140		08/06/21 12:03	1
Dibromofluoromethane (Surr)	127		60 - 140		08/06/21 12:03	1

Lab Sample ID: LCS 460-794855/5

Matrix: Water

Analysis Batch: 794855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	26.0		ug/L		130	70 - 130
1,1,2,2-Tetrachloroethane	20.0	18.2		ug/L		91	60 - 140
1,1,2-Trichloroethane	20.0	20.5		ug/L		103	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 460-794855/5

Matrix: Water

Analysis Batch: 794855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	25.6		ug/L		128	70 - 130
1,1-Dichloroethene	20.0	24.0		ug/L		120	50 - 150
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	65 - 135
1,2-Dichloroethane	20.0	27.1	*+	ug/L		136	70 - 130
1,2-Dichloroethene, Total	40.0	48.2		ug/L		120	60 - 140
1,2-Dichloropropane	20.0	23.6		ug/L		118	35 - 165
1,3-Dichlorobenzene	20.0	19.9		ug/L		100	70 - 130
1,4-Dichlorobenzene	20.0	20.3		ug/L		101	65 - 135
2-Chloroethyl vinyl ether	20.0	20.9		ug/L		104	0.1 - 225
Acrolein	40.6	40.4		ug/L		100	10 - 150
Acrylonitrile	200	224		ug/L		112	60 - 140
Benzene	20.0	20.7		ug/L		104	65 - 135
Bromoform	20.0	18.6		ug/L		93	70 - 130
Bromomethane	20.0	25.9		ug/L		129	15 - 185
Carbon tetrachloride	20.0	25.7		ug/L		128	70 - 130
Chlorobenzene	20.0	20.7		ug/L		103	65 - 135
Chlorodibromomethane	20.0	20.7		ug/L		103	70 - 135
Chloroethane	20.0	27.0		ug/L		135	40 - 160
Chloroform	20.0	26.0		ug/L		130	70 - 135
Chloromethane	20.0	22.1		ug/L		110	0.1 - 205
cis-1,3-Dichloropropene	20.0	19.5		ug/L		97	25 - 175
Bromodichloromethane	20.0	24.5		ug/L		122	65 - 135
Ethylbenzene	20.0	19.5		ug/L		97	60 - 140
Methylene Chloride	20.0	24.6		ug/L		123	60 - 140
Tetrachloroethene	20.0	22.9		ug/L		114	70 - 130
Toluene	20.0	20.5		ug/L		102	70 - 130
trans-1,2-Dichloroethene	20.0	24.4		ug/L		122	70 - 130
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	50 - 150
Trichloroethene	20.0	23.7		ug/L		119	65 - 135
Vinyl chloride	20.0	26.5		ug/L		133	5 - 195

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	135		60 - 140
4-Bromofluorobenzene	109		60 - 140
Toluene-d8 (Surr)	104		60 - 140
Dibromofluoromethane (Surr)	125		60 - 140

Lab Sample ID: LCSD 460-794855/6

Matrix: Water

Analysis Batch: 794855

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,1,1-Trichloroethane	20.0	26.9	*+	ug/L		135	70 - 130	4	36
1,1,2,2-Tetrachloroethane	20.0	19.0		ug/L		95	60 - 140	5	61
1,1,2-Trichloroethane	20.0	21.5		ug/L		107	70 - 130	5	45
1,1-Dichloroethane	20.0	26.8	*+	ug/L		134	70 - 130	4	40
1,1-Dichloroethene	20.0	25.5		ug/L		127	50 - 150	6	32
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	65 - 135	5	57

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 460-794855/6

Matrix: Water

Analysis Batch: 794855

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	20.0	28.3	*+	ug/L		142	70 - 130	4	49
1,2-Dichloroethene, Total	40.0	49.9		ug/L		125	60 - 140	3	50
1,2-Dichloropropane	20.0	25.1		ug/L		125	35 - 165	6	55
1,3-Dichlorobenzene	20.0	20.3		ug/L		102	70 - 130	2	43
1,4-Dichlorobenzene	20.0	20.6		ug/L		103	65 - 135	2	57
2-Chloroethyl vinyl ether	20.0	21.6		ug/L		108	0.1 - 225	3	71
Acrolein	40.6	43.6		ug/L		107	10 - 150	8	60
Acrylonitrile	200	231		ug/L		116	60 - 140	3	60
Benzene	20.0	21.5		ug/L		107	65 - 135	4	61
Bromoform	20.0	19.1		ug/L		96	70 - 130	3	42
Bromomethane	20.0	26.1		ug/L		131	15 - 185	1	61
Carbon tetrachloride	20.0	27.1	*+	ug/L		135	70 - 130	5	41
Chlorobenzene	20.0	21.2		ug/L		106	65 - 135	3	53
Chlorodibromomethane	20.0	21.3		ug/L		107	70 - 135	3	50
Chloroethane	20.0	28.9		ug/L		144	40 - 160	7	78
Chloroform	20.0	26.9		ug/L		134	70 - 135	4	54
Chloromethane	20.0	23.3		ug/L		117	0.1 - 205	6	60
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	25 - 175	3	58
Bromodichloromethane	20.0	25.0		ug/L		125	65 - 135	2	56
Ethylbenzene	20.0	20.1		ug/L		101	60 - 140	3	63
Methylene Chloride	20.0	25.7		ug/L		128	60 - 140	4	28
Tetrachloroethene	20.0	23.4		ug/L		117	70 - 130	2	39
Toluene	20.0	21.1		ug/L		105	70 - 130	3	41
trans-1,2-Dichloroethene	20.0	25.0		ug/L		125	70 - 130	2	45
trans-1,3-Dichloropropene	20.0	19.7		ug/L		99	50 - 150	1	86
Trichloroethene	20.0	25.1		ug/L		126	65 - 135	6	48
Vinyl chloride	20.0	28.1		ug/L		141	5 - 195	6	66

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	142	S1+	60 - 140
4-Bromofluorobenzene	113		60 - 140
Toluene-d8 (Surr)	107		60 - 140
Dibromofluoromethane (Surr)	127		60 - 140

Method: 9040C - pH

Lab Sample ID: LCS 480-592052/23

Matrix: Water

Analysis Batch: 592052

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.074		SU		101	99 - 101

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

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

Lab Sample ID: MB 480-592326/1

Matrix: Water

Analysis Batch: 592326

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			08/10/21 10:39	1

Lab Sample ID: LCS 480-592326/2

Matrix: Water

Analysis Batch: 592326

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	503	487.0		mg/L		97	85 - 115

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

GC/MS VOA

Analysis Batch: 794855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187974-1	RW-3D	Total/NA	Water	624.1	
480-187974-2	Effluent	Total/NA	Water	624.1	
MB 460-794855/10	Method Blank	Total/NA	Water	624.1	
LCS 460-794855/5	Lab Control Sample	Total/NA	Water	624.1	
LCSD 460-794855/6	Lab Control Sample Dup	Total/NA	Water	624.1	

General Chemistry

Analysis Batch: 592052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187974-1	RW-3D	Total/NA	Water	9040C	
480-187974-2	Effluent	Total/NA	Water	9040C	
LCS 480-592052/23	Lab Control Sample	Total/NA	Water	9040C	

Analysis Batch: 592326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187974-1	RW-3D	Total/NA	Water	SM 2540C	
480-187974-2	Effluent	Total/NA	Water	SM 2540C	
MB 480-592326/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-592326/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Client Sample ID: RW-3D

Date Collected: 08/04/21 10:40

Date Received: 08/05/21 08:00

Lab Sample ID: 480-187974-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	794855	08/06/21 14:20	MZS	TAL EDI
Total/NA	Analysis	9040C		1	592052	08/06/21 13:36	JPS	TAL BUF
Total/NA	Analysis	SM 2540C		1	592326	08/10/21 10:39	JGO	TAL BUF

Client Sample ID: Effluent

Date Collected: 08/04/21 10:30

Date Received: 08/05/21 08:00

Lab Sample ID: 480-187974-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	794855	08/06/21 13:57	MZS	TAL EDI
Total/NA	Analysis	9040C		1	592052	08/06/21 13:34	JPS	TAL BUF
Total/NA	Analysis	SM 2540C		1	592326	08/10/21 10:39	JGO	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

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

Analysis Method	Prep Method	Matrix	Analyte
9040C		Water	pH
9040C		Water	Temperature

Laboratory: Eurofins TestAmerica, Edison

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-22

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

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total

Method Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL EDI
9040C	pH	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-187974-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-187974-1	RW-3D	Water	08/04/21 10:40	08/05/21 08:00
480-187974-2	Effluent	Water	08/04/21 10:30	08/05/21 08:00

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Client Information		Lab PM: Stone, Judy L		Carrier Tracking No(s)		COC No: 480-156754-34562.1	
Client Contact: Andrew Talbot		E-Mail: Judy.Stone@Eurofinset.com		State of Origin		Page: Page 1 of 1	
Company: Aztech Technologies Inc		PWSID:		Analysis Requested		Job #:	
Address: 5 McCrea Hill Road		Due Date Requested:		TAT Requested (days):		Preservation Codes:	
City: Ballston Spa		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		PO #		A - HCL	
State, Zip: NY, 12020		Call/Out 136146		WO #		B - NaOH	
Phone:		Project #:		Project Name:		C - Zn Acetate	
Email: atalbot@LaBellaPC.com		SSOW#		COSCO #344035		D - AsNaO2	
Site:		Sample Identification		Sample Date		E - NaHSO4	
		Sample Type (C=Comp, G=grab)		Sample Time		F - MeOH	
		Preservation Code:		Matrix (W=water, S=solid, O=soil, BT=tissue, A=air)		G - Amchlor	
		RW-3D		8/14/21 1040		H - Ascorbic Acid	
		Effluent		8/14/21 1030		I - Ice	
						J - DI Water	
						K - EDTA	
						L - EDA	
						Other:	
						Special Instructions/Note:	
						Total Number of containers	
						Field Filtered Sample (Yes or No)	
						Perform MS/MSD (Yes or No)	
						2540C Calcd - Total Dissolved Solids	
						9040B - pH	
						624.1_PREC - (MOD) Priority Pollutant Volatiles	
						Barcode: 480-187974 Chain of Custody	
						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months	
						Special Instructions/OC Requirements:	
						Empty Kit Relinquished by:	
						Relinquished by: Ellen Carlin	
						Relinquished by: Holly Zacher	
						Relinquished by:	
						Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
						Custody Seal No.:	
						Relinquished by: Ellen Carlin	
						Relinquished by: Holly Zacher	
						Relinquished by:	
						Date/Time: 8/14/21 1418	
						Date/Time: 8/14/21 1300	
						Date/Time: 8/15/21 0800	
						Cooler Temperature(s) °C and Other Remarks: 2.0 #1 kg	
						Company: Eurofins	
						Company: Eurofins	
						Company: Eurofins	

[illegible]

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-187974-1

Login Number: 187974

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-187974-1

Login Number: 187974

List Number: 2

Creator: Armbruster, Chris

List Source: Eurofins TestAmerica, Edison

List Creation: 08/06/21 11:28 AM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	1513430
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7°C IR9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



September 2021 Analytical Data

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-190023-1
Client Project/Site: COSCO #344035

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Robert Strang



Authorized for release by:
10/5/2021 5:05:06 PM
Rebecca Jones, Project Management Assistant I
Rebecca.Jones@Eurofinset.com
Designee for
Steve Hartmann, Project Manager I
(413)572-4000
Steve.Hartmann@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Rebecca Jones
Project Management Assistant I
10/5/2021 5:05:06 PM

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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Job ID: 480-190023-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-190023-1

Comments

No additional comments.

Receipt

The samples were received on 9/24/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

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

General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RW-3D (480-190023-1) and Effluent (480-190023-2).

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

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Client Sample ID: RW-3D

Lab Sample ID: 480-190023-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	36		10	3.2	ug/L	1		624.1	Total/NA
Tetrachloroethene	79		5.0	0.34	ug/L	1		624.1	Total/NA
Trichloroethene	72		5.0	0.60	ug/L	1		624.1	Total/NA
pH	7.33	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	18.8	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	631		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Effluent

Lab Sample ID: 480-190023-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	8.28	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	19.2	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	656		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: TB

Lab Sample ID: 480-190023-3

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Client Sample ID: RW-3D

Lab Sample ID: 480-190023-1

Date Collected: 09/22/21 11:35

Matrix: Water

Date Received: 09/24/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/24/21 14:40	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/24/21 14:40	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/24/21 14:40	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/24/21 14:40	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/24/21 14:40	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/24/21 14:40	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/24/21 14:40	1
1,2-Dichloroethene, Total	36		10	3.2	ug/L			09/24/21 14:40	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/24/21 14:40	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/24/21 14:40	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/24/21 14:40	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/24/21 14:40	1
Acrolein	ND		100	17	ug/L			09/24/21 14:40	1
Acrylonitrile	ND		50	1.9	ug/L			09/24/21 14:40	1
Benzene	ND		5.0	0.60	ug/L			09/24/21 14:40	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/24/21 14:40	1
Bromoform	ND		5.0	0.47	ug/L			09/24/21 14:40	1
Bromomethane	ND		5.0	1.2	ug/L			09/24/21 14:40	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/24/21 14:40	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/24/21 14:40	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			09/24/21 14:40	1
Chloroethane	ND		5.0	0.87	ug/L			09/24/21 14:40	1
Chloroform	ND		5.0	0.54	ug/L			09/24/21 14:40	1
Chloromethane	ND		5.0	0.64	ug/L			09/24/21 14:40	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/24/21 14:40	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/24/21 14:40	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/24/21 14:40	1
Tetrachloroethene	79		5.0	0.34	ug/L			09/24/21 14:40	1
Toluene	ND		5.0	0.45	ug/L			09/24/21 14:40	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			09/24/21 14:40	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/24/21 14:40	1
Trichloroethene	72		5.0	0.60	ug/L			09/24/21 14:40	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/24/21 14:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 130		09/24/21 14:40	1
4-Bromofluorobenzene (Surr)	97		76 - 123		09/24/21 14:40	1
Dibromofluoromethane (Surr)	102		75 - 123		09/24/21 14:40	1
Toluene-d8 (Surr)	100		77 - 120		09/24/21 14:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	631		10.0	4.0	mg/L			09/24/21 15:00	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.33	HF	0.100	0.100	SU			09/28/21 15:18	1
Temperature	18.8	HF	0.00100	0.00100	Degrees C			09/28/21 15:18	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Client Sample ID: Effluent

Lab Sample ID: 480-190023-2

Date Collected: 09/22/21 11:30

Matrix: Water

Date Received: 09/24/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/24/21 15:03	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/24/21 15:03	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/24/21 15:03	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/24/21 15:03	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/24/21 15:03	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/24/21 15:03	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/24/21 15:03	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/24/21 15:03	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/24/21 15:03	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/24/21 15:03	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/24/21 15:03	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/24/21 15:03	1
Acrolein	ND		100	17	ug/L			09/24/21 15:03	1
Acrylonitrile	ND		50	1.9	ug/L			09/24/21 15:03	1
Benzene	ND		5.0	0.60	ug/L			09/24/21 15:03	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/24/21 15:03	1
Bromoform	ND		5.0	0.47	ug/L			09/24/21 15:03	1
Bromomethane	ND		5.0	1.2	ug/L			09/24/21 15:03	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/24/21 15:03	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/24/21 15:03	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			09/24/21 15:03	1
Chloroethane	ND		5.0	0.87	ug/L			09/24/21 15:03	1
Chloroform	ND		5.0	0.54	ug/L			09/24/21 15:03	1
Chloromethane	ND		5.0	0.64	ug/L			09/24/21 15:03	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/24/21 15:03	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/24/21 15:03	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/24/21 15:03	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/24/21 15:03	1
Toluene	ND		5.0	0.45	ug/L			09/24/21 15:03	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			09/24/21 15:03	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/24/21 15:03	1
Trichloroethene	ND		5.0	0.60	ug/L			09/24/21 15:03	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/24/21 15:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		68 - 130		09/24/21 15:03	1
4-Bromofluorobenzene (Surr)	99		76 - 123		09/24/21 15:03	1
Dibromofluoromethane (Surr)	96		75 - 123		09/24/21 15:03	1
Toluene-d8 (Surr)	100		77 - 120		09/24/21 15:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	656		10.0	4.0	mg/L			09/24/21 15:00	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.28	HF	0.100	0.100	SU			09/28/21 15:19	1
Temperature	19.2	HF	0.00100	0.00100	Degrees C			09/28/21 15:19	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Client Sample ID: TB

Lab Sample ID: 480-190023-3

Date Collected: 09/22/21 00:00

Matrix: Water

Date Received: 09/24/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/24/21 15:26	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/24/21 15:26	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/24/21 15:26	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/24/21 15:26	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/24/21 15:26	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/24/21 15:26	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/24/21 15:26	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/24/21 15:26	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/24/21 15:26	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/24/21 15:26	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/24/21 15:26	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/24/21 15:26	1
Acrolein	ND		100	17	ug/L			09/24/21 15:26	1
Acrylonitrile	ND		50	1.9	ug/L			09/24/21 15:26	1
Benzene	ND		5.0	0.60	ug/L			09/24/21 15:26	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/24/21 15:26	1
Bromoform	ND		5.0	0.47	ug/L			09/24/21 15:26	1
Bromomethane	ND		5.0	1.2	ug/L			09/24/21 15:26	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/24/21 15:26	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/24/21 15:26	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			09/24/21 15:26	1
Chloroethane	ND		5.0	0.87	ug/L			09/24/21 15:26	1
Chloroform	ND		5.0	0.54	ug/L			09/24/21 15:26	1
Chloromethane	ND		5.0	0.64	ug/L			09/24/21 15:26	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/24/21 15:26	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/24/21 15:26	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/24/21 15:26	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/24/21 15:26	1
Toluene	ND		5.0	0.45	ug/L			09/24/21 15:26	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			09/24/21 15:26	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/24/21 15:26	1
Trichloroethene	ND		5.0	0.60	ug/L			09/24/21 15:26	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/24/21 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 130		09/24/21 15:26	1
4-Bromofluorobenzene (Surr)	98		76 - 123		09/24/21 15:26	1
Dibromofluoromethane (Surr)	99		75 - 123		09/24/21 15:26	1
Toluene-d8 (Surr)	101		77 - 120		09/24/21 15:26	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (68-130)	BFB (76-123)	DBFM (75-123)	TOL (77-120)
480-190023-1	RW-3D	103	97	102	100
480-190023-2	Effluent	96	99	96	100
480-190023-3	TB	102	98	99	101
LCS 480-597744/5	Lab Control Sample	97	102	100	103
MB 480-597744/7	Method Blank	100	100	100	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-597744/7

Matrix: Water

Analysis Batch: 597744

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			09/24/21 12:42	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.26	ug/L			09/24/21 12:42	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			09/24/21 12:42	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			09/24/21 12:42	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			09/24/21 12:42	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			09/24/21 12:42	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			09/24/21 12:42	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			09/24/21 12:42	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			09/24/21 12:42	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			09/24/21 12:42	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			09/24/21 12:42	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			09/24/21 12:42	1
Acrolein	ND		100	17	ug/L			09/24/21 12:42	1
Acrylonitrile	ND		50	1.9	ug/L			09/24/21 12:42	1
Benzene	ND		5.0	0.60	ug/L			09/24/21 12:42	1
Bromodichloromethane	ND		5.0	0.54	ug/L			09/24/21 12:42	1
Bromoform	ND		5.0	0.47	ug/L			09/24/21 12:42	1
Bromomethane	ND		5.0	1.2	ug/L			09/24/21 12:42	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			09/24/21 12:42	1
Chlorobenzene	ND		5.0	0.48	ug/L			09/24/21 12:42	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			09/24/21 12:42	1
Chloroethane	ND		5.0	0.87	ug/L			09/24/21 12:42	1
Chloroform	ND		5.0	0.54	ug/L			09/24/21 12:42	1
Chloromethane	ND		5.0	0.64	ug/L			09/24/21 12:42	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			09/24/21 12:42	1
Ethylbenzene	ND		5.0	0.46	ug/L			09/24/21 12:42	1
Methylene Chloride	ND		5.0	0.81	ug/L			09/24/21 12:42	1
Tetrachloroethene	ND		5.0	0.34	ug/L			09/24/21 12:42	1
Toluene	ND		5.0	0.45	ug/L			09/24/21 12:42	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			09/24/21 12:42	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			09/24/21 12:42	1
Trichloroethene	ND		5.0	0.60	ug/L			09/24/21 12:42	1
Vinyl chloride	ND		5.0	0.75	ug/L			09/24/21 12:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 130		09/24/21 12:42	1
4-Bromofluorobenzene (Surr)	100		76 - 123		09/24/21 12:42	1
Dibromofluoromethane (Surr)	100		75 - 123		09/24/21 12:42	1
Toluene-d8 (Surr)	102		77 - 120		09/24/21 12:42	1

Lab Sample ID: LCS 480-597744/5

Matrix: Water

Analysis Batch: 597744

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.7		ug/L		99	52 - 162
1,1,2,2-Tetrachloroethane	20.0	20.7		ug/L		104	46 - 157
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	52 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-597744/5

Matrix: Water

Analysis Batch: 597744

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	20.3		ug/L		102	59 - 155
1,1-Dichloroethene	20.0	19.1		ug/L		96	1 - 234
1,2-Dichlorobenzene	20.0	20.4		ug/L		102	18 - 190
1,2-Dichloroethane	20.0	19.7		ug/L		99	49 - 155
1,2-Dichloropropane	20.0	20.8		ug/L		104	1 - 210
1,3-Dichlorobenzene	20.0	19.9		ug/L		100	59 - 156
1,4-Dichlorobenzene	20.0	20.0		ug/L		100	18 - 190
2-Chloroethyl vinyl ether	20.0	19.9	J	ug/L		99	1 - 305
Benzene	20.0	20.0		ug/L		100	37 - 151
Bromodichloromethane	20.0	20.2		ug/L		101	35 - 155
Bromoform	20.0	23.2		ug/L		116	45 - 169
Bromomethane	20.0	18.6		ug/L		93	1 - 242
Carbon tetrachloride	20.0	21.7		ug/L		108	70 - 140
Chlorobenzene	20.0	19.9		ug/L		99	37 - 160
Chlorodibromomethane	20.0	21.9		ug/L		110	53 - 149
Chloroethane	20.0	17.9		ug/L		90	14 - 230
Chloroform	20.0	19.7		ug/L		98	51 - 138
Chloromethane	20.0	18.0		ug/L		90	1 - 273
cis-1,3-Dichloropropene	20.0	20.0		ug/L		100	1 - 227
Ethylbenzene	20.0	20.6		ug/L		103	37 - 162
Methylene Chloride	20.0	20.0		ug/L		100	1 - 221
Tetrachloroethene	20.0	18.9		ug/L		94	64 - 148
Toluene	20.0	19.9		ug/L		99	47 - 150
trans-1,2-Dichloroethene	20.0	19.6		ug/L		98	54 - 156
trans-1,3-Dichloropropene	20.0	19.8		ug/L		99	17 - 183
Trichloroethene	20.0	18.4		ug/L		92	71 - 157
Vinyl chloride	20.0	19.1		ug/L		95	1 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		68 - 130
4-Bromofluorobenzene (Surr)	102		76 - 123
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	103		77 - 120

Method: 9040C - pH

Lab Sample ID: LCS 480-598253/1

Matrix: Water

Analysis Batch: 598253

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.028		SU		100	99 - 101

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

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

Lab Sample ID: MB 480-597837/1

Matrix: Water

Analysis Batch: 597837

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			09/24/21 15:00	1

Lab Sample ID: LCS 480-597837/2

Matrix: Water

Analysis Batch: 597837

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	471.0		mg/L		94	85 - 115

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

GC/MS VOA

Analysis Batch: 597744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190023-1	RW-3D	Total/NA	Water	624.1	
480-190023-2	Effluent	Total/NA	Water	624.1	
480-190023-3	TB	Total/NA	Water	624.1	
MB 480-597744/7	Method Blank	Total/NA	Water	624.1	
LCS 480-597744/5	Lab Control Sample	Total/NA	Water	624.1	

General Chemistry

Analysis Batch: 597837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190023-1	RW-3D	Total/NA	Water	SM 2540C	
480-190023-2	Effluent	Total/NA	Water	SM 2540C	
MB 480-597837/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-597837/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 598253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190023-1	RW-3D	Total/NA	Water	9040C	
480-190023-2	Effluent	Total/NA	Water	9040C	
LCS 480-598253/1	Lab Control Sample	Total/NA	Water	9040C	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Client Sample ID: RW-3D

Lab Sample ID: 480-190023-1

Date Collected: 09/22/21 11:35

Matrix: Water

Date Received: 09/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	597744	09/24/21 14:40	LCH	TAL BUF
Total/NA	Analysis	9040C		1	598253	09/28/21 15:18	JPS	TAL BUF
Total/NA	Analysis	SM 2540C		1	597837	09/24/21 15:00	JGO	TAL BUF

Client Sample ID: Effluent

Lab Sample ID: 480-190023-2

Date Collected: 09/22/21 11:30

Matrix: Water

Date Received: 09/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	597744	09/24/21 15:03	LCH	TAL BUF
Total/NA	Analysis	9040C		1	598253	09/28/21 15:19	JPS	TAL BUF
Total/NA	Analysis	SM 2540C		1	597837	09/24/21 15:00	JGO	TAL BUF

Client Sample ID: TB

Lab Sample ID: 480-190023-3

Date Collected: 09/22/21 00:00

Matrix: Water

Date Received: 09/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	597744	09/24/21 15:26	LCH	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

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

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
9040C		Water	pH
9040C		Water	Temperature

Method Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190023-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-190023-1	RW-3D	Water	09/22/21 11:35	09/24/21 08:00
480-190023-2	Effluent	Water	09/22/21 11:30	09/24/21 08:00
480-190023-3	TB	Water	09/22/21 00:00	09/24/21 08:00

TestAmerica Buffalo

10 Hazelwood Drive, Suite 106

Amherst, New York 14228

Phone (716) 691-2600

Albany

#224

Albany Service Center

25 Kraft Avenue

Albany, NY 12205


Phone (518) 428-8140

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: <i>Carla Berch</i>		Lab PM: Judy Stone		Carrier Tracking No(s):		COC No: 1	
Client Contact: Sabrina Campfield		Phone:		E-Mail: scampfield@labellapc.com				Page: 1 of 1	
Company: LaBella Associates		Due Date Requested:		Analysis Requested <div style="display: flex; justify-content: space-between;"> <div> 2540C - Total Dissolved Solids 9040B - pH 624.1 PREC. (MOD) Priority Pollutant Volatiles </div> <div> 2540C - Total Dissolved Solids 9040B - pH 624.1 PREC. (MOD) Priority Pollutant Volatiles </div> </div>		Job #:			
Address: 5 McCrea Hill Rd.		TAT Requested (days): STD				Preservation Codes:			
City: Ballston Spa NY						A - HCL J - DI Water B - NaOH M - Hexane C - Zn Acetate N - None D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2SO3 H - Ascorbic Acid S - H2SO4 I - Ice Z - other (specify)			
State, Zip: New York		Quote #:				Regulatory programs: MCP <input type="checkbox"/> GW1/S1 <input type="checkbox"/> RCP <input type="checkbox"/> CT RSR <input type="checkbox"/> DEP Form <input type="checkbox"/> EDD Required <input type="checkbox"/>			
Phone: 845 866 1335		PO #:							
Email: scampfield@labellapc.com		CallOut 136146							
Project Name/number: COSCO #344035		WO #:		SSOW#:					
Site:									

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	2540C - Total Dissolved Solids	9040B - pH	624.1 PREC. (MOD) Priority Pollutant Volatiles	Total Number of containers	Special Instructions/Note:
 	 	 	 	 	 	 	 	 	 	 	 	
RW-3D	9-22-21	11:35	G	Water	65	N	N	X	X	X	5	
Effluent	9-22-21	11:30	G	Water	65	N	N	X	X	X	5	
 480-190023 Chain of Custody												

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements: please send copy to	

Relinquished by: <i>Carla Berch</i>	Date/Time: 9-22-21 1545	Company:	Received by: <i>Karl Zedner</i>	Date/Time: 9/23/21 0650	Company: <i>Campfield</i>
Relinquished by: <i>Karl Zedner</i>	Date/Time: 9/23/21 1700	Company: <i>Europe</i>	Received by: <i>BS</i>	Date/Time: 9/24/21 0800	Company: <i>TAB</i>
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.8 #1 ICE
--	-------------------	--

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-190023-1

Login Number: 190023

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	No: Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



October 2021 Analytical Data

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-190769-1
Client Project/Site: COSCO #344035

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Robert Strang



Authorized for release by:
10/26/2021 12:35:47 PM
Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

Designee for
Steve Hartmann, Project Manager I
(413)572-4000
Steve.Hartmann@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Judy Stone
Senior Project Manager
10/26/2021 12:35:47 PM



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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^+	Continuing Calibration Verification (CCV) is outside acceptance limits, high biased.
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Job ID: 480-190769-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-190769-1

Comments

No additional comments.

Receipt

The samples were received on 10/12/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2° C.

GC/MS VOA

Method 624.1: The following sample was diluted to bring the concentration of target analytes within the calibration range: RW-3D (480-190769-1). Elevated reporting limits (RLs) are provided.

Method 624.1: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-599984 recovered outside control limits for the following analyte: Acrolein. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following sample has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RW-3D (480-190769-1).

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

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Client Sample ID: RW-3D

Lab Sample ID: 480-190769-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	52		10	3.2	ug/L	1		624.1	Total/NA
Trichloroethene	96		5.0	0.60	ug/L	1		624.1	Total/NA
Tetrachloroethene - DL	83		10	0.68	ug/L	2		624.1	Total/NA
pH	8.12	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	19.7	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	668		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: Effluent

Lab Sample ID: 480-190769-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	8.13	HF *+	0.100	0.100	SU	1		9040C	Total/NA
Temperature	17.2	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	679		10.0	4.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Client Sample ID: RW-3D

Lab Sample ID: 480-190769-1

Date Collected: 10/11/21 11:05

Matrix: Water

Date Received: 10/12/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/12/21 18:37	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/12/21 18:37	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/12/21 18:37	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/12/21 18:37	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/12/21 18:37	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/12/21 18:37	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/12/21 18:37	1
1,2-Dichloroethene, Total	52		10	3.2	ug/L			10/12/21 18:37	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/12/21 18:37	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/12/21 18:37	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/12/21 18:37	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/12/21 18:37	1
Acrolein	ND	*+	100	17	ug/L			10/12/21 18:37	1
Acrylonitrile	ND		50	1.9	ug/L			10/12/21 18:37	1
Benzene	ND		5.0	0.60	ug/L			10/12/21 18:37	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/12/21 18:37	1
Bromoform	ND		5.0	0.47	ug/L			10/12/21 18:37	1
Bromomethane	ND		5.0	1.2	ug/L			10/12/21 18:37	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/12/21 18:37	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/12/21 18:37	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			10/12/21 18:37	1
Chloroethane	ND		5.0	0.87	ug/L			10/12/21 18:37	1
Chloroform	ND		5.0	0.54	ug/L			10/12/21 18:37	1
Chloromethane	ND		5.0	0.64	ug/L			10/12/21 18:37	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/12/21 18:37	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/12/21 18:37	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/12/21 18:37	1
Toluene	ND		5.0	0.45	ug/L			10/12/21 18:37	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			10/12/21 18:37	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/12/21 18:37	1
Trichloroethene	96		5.0	0.60	ug/L			10/12/21 18:37	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/12/21 18:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 130		10/12/21 18:37	1
4-Bromofluorobenzene (Surr)	99		76 - 123		10/12/21 18:37	1
Dibromofluoromethane (Surr)	100		75 - 123		10/12/21 18:37	1
Toluene-d8 (Surr)	104		77 - 120		10/12/21 18:37	1

Method: 624.1 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	83		10	0.68	ug/L			10/13/21 13:53	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 130		10/13/21 13:53	2
4-Bromofluorobenzene (Surr)	99		76 - 123		10/13/21 13:53	2
Dibromofluoromethane (Surr)	100		75 - 123		10/13/21 13:53	2
Toluene-d8 (Surr)	104		77 - 120		10/13/21 13:53	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Client Sample ID: RW-3D

Lab Sample ID: 480-190769-1

Date Collected: 10/11/21 11:05

Matrix: Water

Date Received: 10/12/21 08:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	668		10.0	4.0	mg/L			10/12/21 14:25	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.12	HF	0.100	0.100	SU			10/14/21 09:12	1
Temperature	19.7	HF	0.00100	0.00100	Degrees C			10/14/21 09:12	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Client Sample ID: Effluent

Lab Sample ID: 480-190769-2

Date Collected: 10/11/21 10:55

Matrix: Water

Date Received: 10/12/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/12/21 19:01	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/12/21 19:01	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/12/21 19:01	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/12/21 19:01	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/12/21 19:01	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/12/21 19:01	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/12/21 19:01	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/12/21 19:01	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/12/21 19:01	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/12/21 19:01	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/12/21 19:01	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/12/21 19:01	1
Acrolein	ND	+	100	17	ug/L			10/12/21 19:01	1
Acrylonitrile	ND		50	1.9	ug/L			10/12/21 19:01	1
Benzene	ND		5.0	0.60	ug/L			10/12/21 19:01	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/12/21 19:01	1
Bromoform	ND		5.0	0.47	ug/L			10/12/21 19:01	1
Bromomethane	ND		5.0	1.2	ug/L			10/12/21 19:01	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/12/21 19:01	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/12/21 19:01	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			10/12/21 19:01	1
Chloroethane	ND		5.0	0.87	ug/L			10/12/21 19:01	1
Chloroform	ND		5.0	0.54	ug/L			10/12/21 19:01	1
Chloromethane	ND		5.0	0.64	ug/L			10/12/21 19:01	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/12/21 19:01	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/12/21 19:01	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/12/21 19:01	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/12/21 19:01	1
Toluene	ND		5.0	0.45	ug/L			10/12/21 19:01	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			10/12/21 19:01	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/12/21 19:01	1
Trichloroethene	ND		5.0	0.60	ug/L			10/12/21 19:01	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/12/21 19:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 130		10/12/21 19:01	1
4-Bromofluorobenzene (Surr)	100		76 - 123		10/12/21 19:01	1
Dibromofluoromethane (Surr)	101		75 - 123		10/12/21 19:01	1
Toluene-d8 (Surr)	105		77 - 120		10/12/21 19:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	679		10.0	4.0	mg/L			10/12/21 14:25	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.13	HF **	0.100	0.100	SU			10/13/21 17:54	1
Temperature	17.2	HF	0.00100	0.00100	Degrees C			10/13/21 17:54	1

Eurofins TestAmerica, Buffalo

Surrogate Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(68-130)	(76-123)	(75-123)	(77-120)
480-190769-1	RW-3D	101	99	100	104
480-190769-1 - DL	RW-3D	101	99	100	104
480-190769-2	Effluent	98	100	101	105
LCS 480-599984/5	Lab Control Sample	104	102	102	104
LCS 480-600190/5	Lab Control Sample	101	102	98	103
MB 480-599984/7	Method Blank	99	100	101	104
MB 480-600190/7	Method Blank	98	99	104	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-599984/7

Matrix: Water

Analysis Batch: 599984

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/12/21 11:52	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/12/21 11:52	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/12/21 11:52	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/12/21 11:52	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/12/21 11:52	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/12/21 11:52	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/12/21 11:52	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/12/21 11:52	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/12/21 11:52	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/12/21 11:52	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/12/21 11:52	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/12/21 11:52	1
Acrolein	ND		100	17	ug/L			10/12/21 11:52	1
Acrylonitrile	ND		50	1.9	ug/L			10/12/21 11:52	1
Benzene	ND		5.0	0.60	ug/L			10/12/21 11:52	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/12/21 11:52	1
Bromoform	ND		5.0	0.47	ug/L			10/12/21 11:52	1
Bromomethane	ND		5.0	1.2	ug/L			10/12/21 11:52	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/12/21 11:52	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/12/21 11:52	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			10/12/21 11:52	1
Chloroethane	ND		5.0	0.87	ug/L			10/12/21 11:52	1
Chloroform	ND		5.0	0.54	ug/L			10/12/21 11:52	1
Chloromethane	ND		5.0	0.64	ug/L			10/12/21 11:52	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/12/21 11:52	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/12/21 11:52	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/12/21 11:52	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/12/21 11:52	1
Toluene	ND		5.0	0.45	ug/L			10/12/21 11:52	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			10/12/21 11:52	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/12/21 11:52	1
Trichloroethene	ND		5.0	0.60	ug/L			10/12/21 11:52	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/12/21 11:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 130		10/12/21 11:52	1
4-Bromofluorobenzene (Surr)	100		76 - 123		10/12/21 11:52	1
Dibromofluoromethane (Surr)	101		75 - 123		10/12/21 11:52	1
Toluene-d8 (Surr)	104		77 - 120		10/12/21 11:52	1

Lab Sample ID: LCS 480-599984/5

Matrix: Water

Analysis Batch: 599984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.7		ug/L		108	52 - 162
1,1,2,2-Tetrachloroethane	20.0	25.1		ug/L		125	46 - 157
1,1,2-Trichloroethane	20.0	22.4		ug/L		112	52 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-599984/5

Matrix: Water

Analysis Batch: 599984

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	22.6		ug/L		113	59 - 155
1,1-Dichloroethene	20.0	22.9		ug/L		115	1 - 234
1,2-Dichlorobenzene	20.0	22.0		ug/L		110	18 - 190
1,2-Dichloroethane	20.0	20.5		ug/L		103	49 - 155
1,2-Dichloropropane	20.0	23.1		ug/L		115	1 - 210
1,3-Dichlorobenzene	20.0	22.0		ug/L		110	59 - 156
1,4-Dichlorobenzene	20.0	21.9		ug/L		110	18 - 190
2-Chloroethyl vinyl ether	20.0	20.9	J	ug/L		105	1 - 305
Benzene	20.0	22.5		ug/L		113	37 - 151
Bromodichloromethane	20.0	21.7		ug/L		109	35 - 155
Bromoform	20.0	24.7		ug/L		124	45 - 169
Bromomethane	20.0	22.7		ug/L		113	1 - 242
Carbon tetrachloride	20.0	22.8		ug/L		114	70 - 140
Chlorobenzene	20.0	21.3		ug/L		107	37 - 160
Chlorodibromomethane	20.0	22.9		ug/L		115	53 - 149
Chloroethane	20.0	24.8		ug/L		124	14 - 230
Chloroform	20.0	21.4		ug/L		107	51 - 138
Chloromethane	20.0	22.1		ug/L		110	1 - 273
cis-1,3-Dichloropropene	20.0	21.1		ug/L		105	1 - 227
Ethylbenzene	20.0	22.1		ug/L		111	37 - 162
Methylene Chloride	20.0	24.3		ug/L		121	1 - 221
Tetrachloroethene	20.0	20.0		ug/L		100	64 - 148
Toluene	20.0	21.5		ug/L		107	47 - 150
trans-1,2-Dichloroethene	20.0	22.5		ug/L		112	54 - 156
trans-1,3-Dichloropropene	20.0	20.8		ug/L		104	17 - 183
Trichloroethene	20.0	20.7		ug/L		104	71 - 157
Vinyl chloride	20.0	23.4		ug/L		117	1 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		68 - 130
4-Bromofluorobenzene (Surr)	102		76 - 123
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	104		77 - 120

Lab Sample ID: MB 480-600190/7

Matrix: Water

Analysis Batch: 600190

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			10/13/21 12:27	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			10/13/21 12:27	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			10/13/21 12:27	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			10/13/21 12:27	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			10/13/21 12:27	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			10/13/21 12:27	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			10/13/21 12:27	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			10/13/21 12:27	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			10/13/21 12:27	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-600190/7

Matrix: Water

Analysis Batch: 600190

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			10/13/21 12:27	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			10/13/21 12:27	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			10/13/21 12:27	1
Acrolein	ND		100	17	ug/L			10/13/21 12:27	1
Acrylonitrile	ND		50	1.9	ug/L			10/13/21 12:27	1
Benzene	ND		5.0	0.60	ug/L			10/13/21 12:27	1
Bromodichloromethane	ND		5.0	0.54	ug/L			10/13/21 12:27	1
Bromoform	ND		5.0	0.47	ug/L			10/13/21 12:27	1
Bromomethane	ND		5.0	1.2	ug/L			10/13/21 12:27	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			10/13/21 12:27	1
Chlorobenzene	ND		5.0	0.48	ug/L			10/13/21 12:27	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			10/13/21 12:27	1
Chloroethane	ND		5.0	0.87	ug/L			10/13/21 12:27	1
Chloroform	ND		5.0	0.54	ug/L			10/13/21 12:27	1
Chloromethane	ND		5.0	0.64	ug/L			10/13/21 12:27	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			10/13/21 12:27	1
Ethylbenzene	ND		5.0	0.46	ug/L			10/13/21 12:27	1
Methylene Chloride	ND		5.0	0.81	ug/L			10/13/21 12:27	1
Tetrachloroethene	ND		5.0	0.34	ug/L			10/13/21 12:27	1
Toluene	ND		5.0	0.45	ug/L			10/13/21 12:27	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			10/13/21 12:27	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			10/13/21 12:27	1
Trichloroethene	ND		5.0	0.60	ug/L			10/13/21 12:27	1
Vinyl chloride	ND		5.0	0.75	ug/L			10/13/21 12:27	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 130		10/13/21 12:27	1
4-Bromofluorobenzene (Surr)	99		76 - 123		10/13/21 12:27	1
Dibromofluoromethane (Surr)	104		75 - 123		10/13/21 12:27	1
Toluene-d8 (Surr)	106		77 - 120		10/13/21 12:27	1

Lab Sample ID: LCS 480-600190/5

Matrix: Water

Analysis Batch: 600190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.7		ug/L		109	52 - 162
1,1,2,2-Tetrachloroethane	20.0	24.4		ug/L		122	46 - 157
1,1,2-Trichloroethane	20.0	22.3		ug/L		111	52 - 150
1,1-Dichloroethane	20.0	22.6		ug/L		113	59 - 155
1,1-Dichloroethene	20.0	22.7		ug/L		114	1 - 234
1,2-Dichlorobenzene	20.0	22.2		ug/L		111	18 - 190
1,2-Dichloroethane	20.0	19.8		ug/L		99	49 - 155
1,2-Dichloropropane	20.0	22.8		ug/L		114	1 - 210
1,3-Dichlorobenzene	20.0	22.1		ug/L		110	59 - 156
1,4-Dichlorobenzene	20.0	22.2		ug/L		111	18 - 190
2-Chloroethyl vinyl ether	20.0	19.8	J	ug/L		99	1 - 305
Benzene	20.0	22.3		ug/L		111	37 - 151

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-600190/5

Matrix: Water

Analysis Batch: 600190

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	20.0	21.6		ug/L		108	35 - 155
Bromoform	20.0	24.5		ug/L		122	45 - 169
Bromomethane	20.0	22.3		ug/L		111	1 - 242
Carbon tetrachloride	20.0	23.3		ug/L		116	70 - 140
Chlorobenzene	20.0	21.4		ug/L		107	37 - 160
Chlorodibromomethane	20.0	23.0		ug/L		115	53 - 149
Chloroethane	20.0	24.6		ug/L		123	14 - 230
Chloroform	20.0	20.9		ug/L		104	51 - 138
Chloromethane	20.0	21.4		ug/L		107	1 - 273
cis-1,3-Dichloropropene	20.0	21.1		ug/L		105	1 - 227
Ethylbenzene	20.0	22.6		ug/L		113	37 - 162
Methylene Chloride	20.0	22.7		ug/L		114	1 - 221
Tetrachloroethene	20.0	20.6		ug/L		103	64 - 148
Toluene	20.0	21.5		ug/L		108	47 - 150
trans-1,2-Dichloroethene	20.0	21.9		ug/L		110	54 - 156
trans-1,3-Dichloropropene	20.0	20.9		ug/L		104	17 - 183
Trichloroethene	20.0	21.0		ug/L		105	71 - 157
Vinyl chloride	20.0	23.6		ug/L		118	1 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		68 - 130
4-Bromofluorobenzene (Surr)	102		76 - 123
Dibromofluoromethane (Surr)	98		75 - 123
Toluene-d8 (Surr)	103		77 - 120

Method: 9040C - pH

Lab Sample ID: LCS 480-600361/23

Matrix: Water

Analysis Batch: 600361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.126	*+ ^+	SU		102	99 - 101

Lab Sample ID: LCS 480-600361/45

Matrix: Water

Analysis Batch: 600361

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.084	^+	SU		101	99 - 101

Lab Sample ID: 480-190769-2 DU

Matrix: Water

Analysis Batch: 600361

Client Sample ID: Effluent

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	8.13	HF *+	8.241	^+	SU		1	5
Temperature	17.2	HF	16.70		Degrees C		3	10

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Method: 9040C - pH (Continued)

Lab Sample ID: LCS 480-600378/1

Matrix: Water

Analysis Batch: 600378

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	7.038		SU		101	99 - 101

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

Lab Sample ID: MB 480-600105/1

Matrix: Water

Analysis Batch: 600105

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			10/12/21 14:25	1

Lab Sample ID: LCS 480-600105/2

Matrix: Water

Analysis Batch: 600105

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	500	506.0		mg/L		101	85 - 115

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

GC/MS VOA

Analysis Batch: 599984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190769-1	RW-3D	Total/NA	Water	624.1	
480-190769-2	Effluent	Total/NA	Water	624.1	
MB 480-599984/7	Method Blank	Total/NA	Water	624.1	
LCS 480-599984/5	Lab Control Sample	Total/NA	Water	624.1	

Analysis Batch: 600190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190769-1 - DL	RW-3D	Total/NA	Water	624.1	
MB 480-600190/7	Method Blank	Total/NA	Water	624.1	
LCS 480-600190/5	Lab Control Sample	Total/NA	Water	624.1	

General Chemistry

Analysis Batch: 600105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190769-1	RW-3D	Total/NA	Water	SM 2540C	
480-190769-2	Effluent	Total/NA	Water	SM 2540C	
MB 480-600105/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-600105/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 600361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190769-2	Effluent	Total/NA	Water	9040C	
LCS 480-600361/23	Lab Control Sample	Total/NA	Water	9040C	
LCS 480-600361/45	Lab Control Sample	Total/NA	Water	9040C	
480-190769-2 DU	Effluent	Total/NA	Water	9040C	

Analysis Batch: 600378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-190769-1	RW-3D	Total/NA	Water	9040C	
LCS 480-600378/1	Lab Control Sample	Total/NA	Water	9040C	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Client Sample ID: RW-3D

Lab Sample ID: 480-190769-1

Date Collected: 10/11/21 11:05

Matrix: Water

Date Received: 10/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	599984	10/12/21 18:37	ATG	TAL BUF
Total/NA	Analysis	624.1	DL	2	600190	10/13/21 13:53	ATG	TAL BUF
Total/NA	Analysis	9040C		1	600378	10/14/21 09:12	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	600105	10/12/21 14:25	JGO	TAL BUF

Client Sample ID: Effluent

Lab Sample ID: 480-190769-2

Date Collected: 10/11/21 10:55

Matrix: Water

Date Received: 10/12/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	599984	10/12/21 19:01	ATG	TAL BUF
Total/NA	Analysis	9040C		1	600361	10/13/21 17:54	KEB	TAL BUF
Total/NA	Analysis	SM 2540C		1	600105	10/12/21 14:25	JGO	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

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

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
9040C		Water	pH
9040C		Water	Temperature

Method Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-190769-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-190769-1	RW-3D	Water	10/11/21 11:05	10/12/21 08:00
480-190769-2	Effluent	Water	10/11/21 10:55	10/12/21 08:00

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[illegible]

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-190769-1

Login Number: 190769

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



November 2021 Analytical Data

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-192049-1
Client Project/Site: COSCO #344035

For:
New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: Robert Strang



Authorized for release by:
11/29/2021 5:45:00 PM
Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

Designee for
Steve Hartmann, Project Manager I
(413)572-4000
Steve.Hartmann@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Judy Stone
Senior Project Manager
11/29/2021 5:45:00 PM

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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

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

Case Narrative

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Job ID: 480-192049-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

ob Narrative
480-192049-1

Comments

No additional comments.

Receipt

The samples were received on 11/9/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

GC/MS VOA

Method 624.1: The continuing calibration verification (CCV) associated with batch 480-604014 recovered above the upper control limit for Acrolein. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: RW-3D (480-192049-1) and EFFLUENT (480-192049-2).

Method 624.1: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-604014 recovered outside control limits for the following analyte: Acrolein. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

General Chemistry

Methods 9040C, SM 4500 H+ B: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples have been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: RW-3D (480-192049-1) and EFFLUENT (480-192049-2).

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

Detection Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Client Sample ID: RW-3D

Lab Sample ID: 480-192049-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethene, Total	19		10	3.2	ug/L	1		624.1	Total/NA
Tetrachloroethene	47		5.0	0.34	ug/L	1		624.1	Total/NA
Trichloroethene	42		5.0	0.60	ug/L	1		624.1	Total/NA
pH	7.40	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	22.8	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	676		10.0	4.0	mg/L	1		SM 2540C	Total/NA

Client Sample ID: EFFLUENT

Lab Sample ID: 480-192049-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	8.18	HF	0.100	0.100	SU	1		9040C	Total/NA
Temperature	22.9	HF	0.00100	0.00100	Degrees C	1		9040C	Total/NA
Total Dissolved Solids	642		10.0	4.0	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Client Sample ID: RW-3D

Lab Sample ID: 480-192049-1

Date Collected: 11/08/21 10:30

Matrix: Water

Date Received: 11/09/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/09/21 13:27	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/09/21 13:27	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/21 13:27	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/09/21 13:27	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/09/21 13:27	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/09/21 13:27	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/21 13:27	1
1,2-Dichloroethene, Total	19		10	3.2	ug/L			11/09/21 13:27	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/09/21 13:27	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/09/21 13:27	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/09/21 13:27	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/09/21 13:27	1
Acrolein	ND	*+	100	17	ug/L			11/09/21 13:27	1
Acrylonitrile	ND		50	1.9	ug/L			11/09/21 13:27	1
Benzene	ND		5.0	0.60	ug/L			11/09/21 13:27	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/09/21 13:27	1
Bromoform	ND		5.0	0.47	ug/L			11/09/21 13:27	1
Bromomethane	ND		5.0	1.2	ug/L			11/09/21 13:27	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/21 13:27	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/09/21 13:27	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			11/09/21 13:27	1
Chloroethane	ND		5.0	0.87	ug/L			11/09/21 13:27	1
Chloroform	ND		5.0	0.54	ug/L			11/09/21 13:27	1
Chloromethane	ND		5.0	0.64	ug/L			11/09/21 13:27	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/09/21 13:27	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/09/21 13:27	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/21 13:27	1
Tetrachloroethene	47		5.0	0.34	ug/L			11/09/21 13:27	1
Toluene	ND		5.0	0.45	ug/L			11/09/21 13:27	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			11/09/21 13:27	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/09/21 13:27	1
Trichloroethene	42		5.0	0.60	ug/L			11/09/21 13:27	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/09/21 13:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 130		11/09/21 13:27	1
4-Bromofluorobenzene (Surr)	99		76 - 123		11/09/21 13:27	1
Dibromofluoromethane (Surr)	103		75 - 123		11/09/21 13:27	1
Toluene-d8 (Surr)	104		77 - 120		11/09/21 13:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	676		10.0	4.0	mg/L			11/11/21 09:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.40	HF	0.100	0.100	SU			11/15/21 11:04	1
Temperature	22.8	HF	0.00100	0.00100	Degrees C			11/15/21 11:04	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Client Sample ID: EFFLUENT

Lab Sample ID: 480-192049-2

Date Collected: 11/08/21 10:45

Matrix: Water

Date Received: 11/09/21 08:00

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/09/21 13:50	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/09/21 13:50	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/21 13:50	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/09/21 13:50	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/09/21 13:50	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/09/21 13:50	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/21 13:50	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/09/21 13:50	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/09/21 13:50	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/09/21 13:50	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/09/21 13:50	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/09/21 13:50	1
Acrolein	ND	*+	100	17	ug/L			11/09/21 13:50	1
Acrylonitrile	ND		50	1.9	ug/L			11/09/21 13:50	1
Benzene	ND		5.0	0.60	ug/L			11/09/21 13:50	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/09/21 13:50	1
Bromoform	ND		5.0	0.47	ug/L			11/09/21 13:50	1
Bromomethane	ND		5.0	1.2	ug/L			11/09/21 13:50	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/21 13:50	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/09/21 13:50	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			11/09/21 13:50	1
Chloroethane	ND		5.0	0.87	ug/L			11/09/21 13:50	1
Chloroform	ND		5.0	0.54	ug/L			11/09/21 13:50	1
Chloromethane	ND		5.0	0.64	ug/L			11/09/21 13:50	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/09/21 13:50	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/09/21 13:50	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/21 13:50	1
Tetrachloroethene	ND		5.0	0.34	ug/L			11/09/21 13:50	1
Toluene	ND		5.0	0.45	ug/L			11/09/21 13:50	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			11/09/21 13:50	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/09/21 13:50	1
Trichloroethene	ND		5.0	0.60	ug/L			11/09/21 13:50	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/09/21 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 130		11/09/21 13:50	1
4-Bromofluorobenzene (Surr)	99		76 - 123		11/09/21 13:50	1
Dibromofluoromethane (Surr)	104		75 - 123		11/09/21 13:50	1
Toluene-d8 (Surr)	102		77 - 120		11/09/21 13:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	642		10.0	4.0	mg/L			11/11/21 09:30	1
Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH	8.18	HF	0.100	0.100	SU			11/15/21 11:05	1
Temperature	22.9	HF	0.00100	0.00100	Degrees C			11/15/21 11:05	1

Eurofins TestAmerica, Buffalo

Surrogate Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(68-130)	(76-123)	(75-123)	(77-120)
480-192049-1	RW-3D	97	99	103	104
480-192049-2	EFFLUENT	99	99	104	102
LCS 480-604014/6	Lab Control Sample	94	101	100	101
MB 480-604014/8	Method Blank	98	99	105	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-604014/8

Matrix: Water

Analysis Batch: 604014

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.39	ug/L			11/09/21 12:48	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.26	ug/L			11/09/21 12:48	1
1,1,2-Trichloroethane	ND		5.0	0.48	ug/L			11/09/21 12:48	1
1,1-Dichloroethane	ND		5.0	0.59	ug/L			11/09/21 12:48	1
1,1-Dichloroethene	ND		5.0	0.85	ug/L			11/09/21 12:48	1
1,2-Dichlorobenzene	ND		5.0	0.44	ug/L			11/09/21 12:48	1
1,2-Dichloroethane	ND		5.0	0.60	ug/L			11/09/21 12:48	1
1,2-Dichloroethene, Total	ND		10	3.2	ug/L			11/09/21 12:48	1
1,2-Dichloropropane	ND		5.0	0.61	ug/L			11/09/21 12:48	1
1,3-Dichlorobenzene	ND		5.0	0.54	ug/L			11/09/21 12:48	1
1,4-Dichlorobenzene	ND		5.0	0.51	ug/L			11/09/21 12:48	1
2-Chloroethyl vinyl ether	ND		25	1.9	ug/L			11/09/21 12:48	1
Acrolein	ND		100	17	ug/L			11/09/21 12:48	1
Acrylonitrile	ND		50	1.9	ug/L			11/09/21 12:48	1
Benzene	ND		5.0	0.60	ug/L			11/09/21 12:48	1
Bromodichloromethane	ND		5.0	0.54	ug/L			11/09/21 12:48	1
Bromoform	ND		5.0	0.47	ug/L			11/09/21 12:48	1
Bromomethane	ND		5.0	1.2	ug/L			11/09/21 12:48	1
Carbon tetrachloride	ND		5.0	0.51	ug/L			11/09/21 12:48	1
Chlorobenzene	ND		5.0	0.48	ug/L			11/09/21 12:48	1
Chlorodibromomethane	ND		5.0	0.41	ug/L			11/09/21 12:48	1
Chloroethane	ND		5.0	0.87	ug/L			11/09/21 12:48	1
Chloroform	ND		5.0	0.54	ug/L			11/09/21 12:48	1
Chloromethane	ND		5.0	0.64	ug/L			11/09/21 12:48	1
cis-1,3-Dichloropropene	ND		5.0	0.33	ug/L			11/09/21 12:48	1
Ethylbenzene	ND		5.0	0.46	ug/L			11/09/21 12:48	1
Methylene Chloride	ND		5.0	0.81	ug/L			11/09/21 12:48	1
Tetrachloroethene	ND		5.0	0.34	ug/L			11/09/21 12:48	1
Toluene	ND		5.0	0.45	ug/L			11/09/21 12:48	1
trans-1,2-Dichloroethene	ND		5.0	0.59	ug/L			11/09/21 12:48	1
trans-1,3-Dichloropropene	ND		5.0	0.44	ug/L			11/09/21 12:48	1
Trichloroethene	ND		5.0	0.60	ug/L			11/09/21 12:48	1
Vinyl chloride	ND		5.0	0.75	ug/L			11/09/21 12:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 130		11/09/21 12:48	1
4-Bromofluorobenzene (Surr)	99		76 - 123		11/09/21 12:48	1
Dibromofluoromethane (Surr)	105		75 - 123		11/09/21 12:48	1
Toluene-d8 (Surr)	103		77 - 120		11/09/21 12:48	1

Lab Sample ID: LCS 480-604014/6

Matrix: Water

Analysis Batch: 604014

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.0		ug/L		105	52 - 162
1,1,2,2-Tetrachloroethane	20.0	22.0		ug/L		110	46 - 157
1,1,2-Trichloroethane	20.0	20.9		ug/L		104	52 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-604014/6

Matrix: Water

Analysis Batch: 604014

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	20.0	19.9		ug/L		100	59 - 155
1,1-Dichloroethene	20.0	19.1		ug/L		96	1 - 234
1,2-Dichlorobenzene	20.0	20.9		ug/L		105	18 - 190
1,2-Dichloroethane	20.0	19.4		ug/L		97	49 - 155
1,2-Dichloropropane	20.0	21.4		ug/L		107	1 - 210
1,3-Dichlorobenzene	20.0	21.1		ug/L		105	59 - 156
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	18 - 190
2-Chloroethyl vinyl ether	20.0	22.1	J	ug/L		110	1 - 305
Benzene	20.0	21.3		ug/L		106	37 - 151
Bromodichloromethane	20.0	21.9		ug/L		110	35 - 155
Bromoform	20.0	26.6		ug/L		133	45 - 169
Bromomethane	20.0	10.3		ug/L		52	1 - 242
Carbon tetrachloride	20.0	23.8		ug/L		119	70 - 140
Chlorobenzene	20.0	20.9		ug/L		104	37 - 160
Chlorodibromomethane	20.0	24.0		ug/L		120	53 - 149
Chloroethane	20.0	13.3		ug/L		66	14 - 230
Chloroform	20.0	20.2		ug/L		101	51 - 138
Chloromethane	20.0	5.96		ug/L		30	1 - 273
cis-1,3-Dichloropropene	20.0	21.1		ug/L		105	1 - 227
Ethylbenzene	20.0	21.3		ug/L		107	37 - 162
Methylene Chloride	20.0	20.3		ug/L		102	1 - 221
Tetrachloroethene	20.0	21.4		ug/L		107	64 - 148
Toluene	20.0	21.0		ug/L		105	47 - 150
trans-1,2-Dichloroethene	20.0	20.2		ug/L		101	54 - 156
trans-1,3-Dichloropropene	20.0	20.9		ug/L		104	17 - 183
Trichloroethene	20.0	20.5		ug/L		102	71 - 157
Vinyl chloride	20.0	7.65		ug/L		38	1 - 251

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		68 - 130
4-Bromofluorobenzene (Surr)	101		76 - 123
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	101		77 - 120

Method: 9040C - pH

Lab Sample ID: LCS 480-605019/1

Matrix: Water

Analysis Batch: 605019

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
pH	7.00	6.991		SU		100	99 - 101

QC Sample Results

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

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

Lab Sample ID: MB 480-604402/1

Matrix: Water

Analysis Batch: 604402

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10.0	4.0	mg/L			11/11/21 09:30	1

Lab Sample ID: LCS 480-604402/2

Matrix: Water

Analysis Batch: 604402

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids	502	451.0		mg/L		90	85 - 115

QC Association Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

GC/MS VOA

Analysis Batch: 604014

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192049-1	RW-3D	Total/NA	Water	624.1	
480-192049-2	EFFLUENT	Total/NA	Water	624.1	
MB 480-604014/8	Method Blank	Total/NA	Water	624.1	
LCS 480-604014/6	Lab Control Sample	Total/NA	Water	624.1	

General Chemistry

Analysis Batch: 604402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192049-1	RW-3D	Total/NA	Water	SM 2540C	
480-192049-2	EFFLUENT	Total/NA	Water	SM 2540C	
MB 480-604402/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 480-604402/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Analysis Batch: 605019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-192049-1	RW-3D	Total/NA	Water	9040C	
480-192049-2	EFFLUENT	Total/NA	Water	9040C	
LCS 480-605019/1	Lab Control Sample	Total/NA	Water	9040C	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Client Sample ID: RW-3D

Date Collected: 11/08/21 10:30

Date Received: 11/09/21 08:00

Lab Sample ID: 480-192049-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	604014	11/09/21 13:27	ATG	TAL BUF
Total/NA	Analysis	9040C		1	605019	11/15/21 11:04	DLG	TAL BUF
Total/NA	Analysis	SM 2540C		1	604402	11/11/21 09:30	EJL	TAL BUF

Client Sample ID: EFFLUENT

Date Collected: 11/08/21 10:45

Date Received: 11/09/21 08:00

Lab Sample ID: 480-192049-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624.1		1	604014	11/09/21 13:50	ATG	TAL BUF
Total/NA	Analysis	9040C		1	605019	11/15/21 11:05	DLG	TAL BUF
Total/NA	Analysis	SM 2540C		1	604402	11/11/21 09:30	EJL	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

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

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2-Dichloroethene, Total
9040C		Water	pH
9040C		Water	Temperature

Method Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL BUF
9040C	pH	SW846	TAL BUF
SM 2540C	Solids, Total Dissolved (TDS)	SM	TAL BUF

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.
Project/Site: COSCO #344035

Job ID: 480-192049-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-192049-1	RW-3D	Water	11/08/21 10:30	11/09/21 08:00
480-192049-2	EFFLUENT	Water	11/08/21 10:45	11/09/21 08:00

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Client Information		Lab PM Hartmann, Steve		Carrier Tracking No(s) 480-156757-34562.1	
Client Contact: Andrew Talbot		Phone		State of Origin	
Company: Aztech Technologies Inc		E-Mail: Steve.Hartmann@Eurofinset.com		Page 1 of 1	
Address: 5 McCrea Hill Road		PWSID		Job #	
City: Ballston Spa		Due Date Requested:		Preservation Codes:	
State, Zip: NY, 12020		TAT Requested (days):		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - HNO3 M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2CO3	
Phone		Compliance Project: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Barcode 480-192049 Chain of Custody	
PO #		CallOut 136146		hydrate	
WO #		Project #		6)	
Email: atalbot@LaBellaPC.com		SSOW#			
Project Name: COSCO #344035					
Site					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2540C, Calcd - Total Dissolved Solids	9040B - pH	624.1, PREC - (MOD) Priority Pollutant Volatiles	Analysis Requested	Special Instructions/Note:
RW-3D	11/8/21	10:30	G	Water							
Effluent	11/8/21	10:45	G	Water							
71-8-21											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: <i>Ellen Carter</i>		Date/Time: 11/8/21 1436		Company: <i>AE</i>	
Relinquished by: <i>Jim Kwallinger</i>		Date/Time: 11-8-2021 1700		Company: <i>EE</i>	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 2.0 #1 ICE	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-192049-1

Login Number: 192049

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	



December 2021 Analytical Data

December 30, 2021

Sabrina Campfield
LaBella

RE: Project: COSCO #344035 - 12/16
Pace Project No.: 70198509

Dear Sabrina Campfield:

Enclosed are the analytical results for sample(s) received by the laboratory on December 18, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lea Sherman
lea.sherman@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Robert Strang, NYDEC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

Sample: RW-3D		Lab ID: 70198509001		Collected: 12/16/21 10:10		Received: 12/18/21 10:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		12/21/21 11:53	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/21/21 11:53	75-27-4	M1	
Bromoform	<1.0	ug/L	1.0	1		12/21/21 11:53	75-25-2	L2,M0	
Bromomethane	<1.0	ug/L	1.0	1		12/21/21 11:53	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/21/21 11:53	56-23-5	L2,M0	
Chlorobenzene	<1.0	ug/L	1.0	1		12/21/21 11:53	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/21/21 11:53	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/21/21 11:53	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/21/21 11:53	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/21/21 11:53	124-48-1	M1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		12/21/21 11:53	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		12/21/21 11:53	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		12/21/21 11:53	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		12/21/21 11:53	75-71-8	v3	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/21/21 11:53	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/21/21 11:53	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/21/21 11:53	75-35-4		
cis-1,2-Dichloroethene	1.1	ug/L	1.0	1		12/21/21 11:53	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		12/21/21 11:53	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/21/21 11:53	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/21/21 11:53	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/21/21 11:53	10061-02-6	M1,v3	
Ethylbenzene	<1.0	ug/L	1.0	1		12/21/21 11:53	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/21/21 11:53	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/21/21 11:53	79-34-5		
Tetrachloroethene	<1.0	ug/L	1.0	1		12/21/21 11:53	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/21/21 11:53	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/21/21 11:53	71-55-6	L2,M0	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/21/21 11:53	79-00-5		
Trichloroethene	1.0	ug/L	1.0	1		12/21/21 11:53	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		12/21/21 11:53	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		12/21/21 11:53	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		12/21/21 11:53	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	91	%	80-110	1		12/21/21 11:53	460-00-4		
Toluene-d8 (S)	96	%	87-120	1		12/21/21 11:53	2037-26-5		
1,2-Dichloroethane-d4 (S)	92	%	76-127	1		12/21/21 11:53	17060-07-0		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	678	mg/L	20.0	1		12/23/21 15:12			
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville							
pH	8.0	Std. Units	0.10	1		12/22/21 13:51		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

Sample: RW-3D		Lab ID: 70198509001	Collected: 12/16/21 10:10	Received: 12/18/21 10:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville						
Temperature, Water (C)	18.1	deg C	0.10	1		12/22/21 13:51		H3,H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

Sample: EFFLUENT		Lab ID: 70198509002		Collected: 12/16/21 10:40		Received: 12/18/21 10:45		Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville							
Benzene	<1.0	ug/L	1.0	1		12/21/21 12:12	71-43-2		
Bromodichloromethane	<1.0	ug/L	1.0	1		12/21/21 12:12	75-27-4		
Bromoform	<1.0	ug/L	1.0	1		12/21/21 12:12	75-25-2	L2	
Bromomethane	<1.0	ug/L	1.0	1		12/21/21 12:12	74-83-9		
Carbon tetrachloride	<1.0	ug/L	1.0	1		12/21/21 12:12	56-23-5	L2	
Chlorobenzene	<1.0	ug/L	1.0	1		12/21/21 12:12	108-90-7		
Chloroethane	<1.0	ug/L	1.0	1		12/21/21 12:12	75-00-3		
Chloroform	<1.0	ug/L	1.0	1		12/21/21 12:12	67-66-3		
Chloromethane	<1.0	ug/L	1.0	1		12/21/21 12:12	74-87-3		
Dibromochloromethane	<1.0	ug/L	1.0	1		12/21/21 12:12	124-48-1		
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		12/21/21 12:12	95-50-1		
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		12/21/21 12:12	541-73-1		
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		12/21/21 12:12	106-46-7		
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		12/21/21 12:12	75-71-8	v3	
1,1-Dichloroethane	<1.0	ug/L	1.0	1		12/21/21 12:12	75-34-3		
1,2-Dichloroethane	<1.0	ug/L	1.0	1		12/21/21 12:12	107-06-2		
1,1-Dichloroethene	<1.0	ug/L	1.0	1		12/21/21 12:12	75-35-4		
cis-1,2-Dichloroethene	12.9	ug/L	1.0	1		12/21/21 12:12	156-59-2		
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		12/21/21 12:12	156-60-5		
1,2-Dichloropropane	<1.0	ug/L	1.0	1		12/21/21 12:12	78-87-5		
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/21/21 12:12	10061-01-5		
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		12/21/21 12:12	10061-02-6	v3	
Ethylbenzene	<1.0	ug/L	1.0	1		12/21/21 12:12	100-41-4		
Methylene Chloride	<1.0	ug/L	1.0	1		12/21/21 12:12	75-09-2		
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		12/21/21 12:12	79-34-5		
Tetrachloroethene	40.3	ug/L	1.0	1		12/21/21 12:12	127-18-4		
Toluene	<1.0	ug/L	1.0	1		12/21/21 12:12	108-88-3		
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		12/21/21 12:12	71-55-6	L2	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		12/21/21 12:12	79-00-5		
Trichloroethene	35.1	ug/L	1.0	1		12/21/21 12:12	79-01-6		
Trichlorofluoromethane	<1.0	ug/L	1.0	1		12/21/21 12:12	75-69-4		
Vinyl chloride	<1.0	ug/L	1.0	1		12/21/21 12:12	75-01-4		
Xylene (Total)	<1.0	ug/L	1.0	1		12/21/21 12:12	1330-20-7		
Surrogates									
4-Bromofluorobenzene (S)	93	%	80-110	1		12/21/21 12:12	460-00-4		
Toluene-d8 (S)	99	%	87-120	1		12/21/21 12:12	2037-26-5		
1,2-Dichloroethane-d4 (S)	91	%	76-127	1		12/21/21 12:12	17060-07-0		
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville							
Total Dissolved Solids	692	mg/L	20.0	1		12/23/21 15:12			
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville							
pH	7.2	Std. Units	0.10	1		12/22/21 13:52		H3,H6, N3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

Sample: EFFLUENT		Lab ID: 70198509002	Collected: 12/16/21 10:40	Received: 12/18/21 10:45	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville						
Temperature, Water (C)	17.4	deg C	0.10	1		12/22/21 13:52		H3,H6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

QC Batch: 237882

Analysis Method: EPA 624.1

QC Batch Method: EPA 624.1

Analysis Description: 624.1 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70198509001, 70198509002

METHOD BLANK: 1201634

Matrix: Water

Associated Lab Samples: 70198509001, 70198509002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/21/21 10:20	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	12/21/21 10:20	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	12/21/21 10:20	
1,1-Dichloroethane	ug/L	<1.0	1.0	12/21/21 10:20	
1,1-Dichloroethene	ug/L	<1.0	1.0	12/21/21 10:20	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	12/21/21 10:20	
1,2-Dichloroethane	ug/L	<1.0	1.0	12/21/21 10:20	
1,2-Dichloropropane	ug/L	<1.0	1.0	12/21/21 10:20	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	12/21/21 10:20	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	12/21/21 10:20	
Benzene	ug/L	<1.0	1.0	12/21/21 10:20	
Bromodichloromethane	ug/L	<1.0	1.0	12/21/21 10:20	
Bromoform	ug/L	<1.0	1.0	12/21/21 10:20	
Bromomethane	ug/L	<1.0	1.0	12/21/21 10:20	
Carbon tetrachloride	ug/L	<1.0	1.0	12/21/21 10:20	
Chlorobenzene	ug/L	<1.0	1.0	12/21/21 10:20	
Chloroethane	ug/L	<1.0	1.0	12/21/21 10:20	
Chloroform	ug/L	<1.0	1.0	12/21/21 10:20	
Chloromethane	ug/L	<1.0	1.0	12/21/21 10:20	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	12/21/21 10:20	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	12/21/21 10:20	
Dibromochloromethane	ug/L	<1.0	1.0	12/21/21 10:20	
Dichlorodifluoromethane	ug/L	<1.0	1.0	12/21/21 10:20	v3
Ethylbenzene	ug/L	<1.0	1.0	12/21/21 10:20	
Methylene Chloride	ug/L	<1.0	1.0	12/21/21 10:20	
Tetrachloroethene	ug/L	<1.0	1.0	12/21/21 10:20	
Toluene	ug/L	<1.0	1.0	12/21/21 10:20	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	12/21/21 10:20	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	12/21/21 10:20	v3
Trichloroethene	ug/L	<1.0	1.0	12/21/21 10:20	
Trichlorofluoromethane	ug/L	<1.0	1.0	12/21/21 10:20	
Vinyl chloride	ug/L	<1.0	1.0	12/21/21 10:20	
Xylene (Total)	ug/L	<1.0	1.0	12/21/21 10:20	
1,2-Dichloroethane-d4 (S)	%	89	76-127	12/21/21 10:20	
4-Bromofluorobenzene (S)	%	92	80-110	12/21/21 10:20	
Toluene-d8 (S)	%	95	87-120	12/21/21 10:20	

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QUALITY CONTROL DATA

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

LABORATORY CONTROL SAMPLE: 1201635

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	13.2	66	70-130	L2
1,1,2,2-Tetrachloroethane	ug/L	20	16.0	80	60-140	
1,1,2-Trichloroethane	ug/L	20	19.1	96	70-130	
1,1-Dichloroethane	ug/L	20	18.5	92	70-130	
1,1-Dichloroethene	ug/L	20	20.8	104	70-130	
1,2-Dichlorobenzene	ug/L	20	19.6	98	65-135	
1,2-Dichloroethane	ug/L	20	19.2	96	70-130	
1,2-Dichloropropane	ug/L	20	20.2	101	35-165	
1,3-Dichlorobenzene	ug/L	20	20.0	100	70-130	
1,4-Dichlorobenzene	ug/L	20	20.2	101	65-135	
Benzene	ug/L	20	18.9	95	65-135	
Bromodichloromethane	ug/L	20	16.9	84	65-135	
Bromoform	ug/L	20	12.3	61	70-130	L2
Bromomethane	ug/L	20	16.4	82	15-185	
Carbon tetrachloride	ug/L	20	11.5	57	70-130	L2
Chlorobenzene	ug/L	20	21.7	109	65-135	
Chloroethane	ug/L	20	27.5	137	40-160	
Chloroform	ug/L	20	18.3	91	70-135	
Chloromethane	ug/L	20	12.1	60	10-205	
cis-1,2-Dichloroethene	ug/L	20	17.9	90	77-121	
cis-1,3-Dichloropropene	ug/L	20	14.6	73	25-175	
Dibromochloromethane	ug/L	20	15.6	78	70-135	
Dichlorodifluoromethane	ug/L	20	8.7	43	10-131	v3
Ethylbenzene	ug/L	20	20.9	105	60-140	
Methylene Chloride	ug/L	20	19.8	99	60-140	
Tetrachloroethene	ug/L	20	22.0	110	65-135	
Toluene	ug/L	20	20.2	101	70-130	
trans-1,2-Dichloroethene	ug/L	20	16.9	85	70-130	
trans-1,3-Dichloropropene	ug/L	20	12.2	61	50-150	v3
Trichloroethene	ug/L	20	18.9	95	65-135	
Trichlorofluoromethane	ug/L	20	19.0	95	50-150	
Vinyl chloride	ug/L	20	17.3	87	5-195	
Xylene (Total)	ug/L	60	63.6	106	77-121	
1,2-Dichloroethane-d4 (S)	%			88	76-127	
4-Bromofluorobenzene (S)	%			94	80-110	
Toluene-d8 (S)	%			95	87-120	

MATRIX SPIKE SAMPLE: 1201859

Parameter	Units	70198509001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	20	12.3	62	70-130	M0
1,1,2,2-Tetrachloroethane	ug/L	<1.0	20	13.3	67	60-140	
1,1,2-Trichloroethane	ug/L	<1.0	20	16.9	85	70-130	
1,1-Dichloroethane	ug/L	<1.0	20	15.9	79	70-130	
1,1-Dichloroethene	ug/L	<1.0	20	18.4	92	70-130	

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QUALITY CONTROL DATA

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

MATRIX SPIKE SAMPLE: 1201859		70198509001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	<1.0	20	17.0	85	65-135	
1,2-Dichloroethane	ug/L	<1.0	20	15.2	76	70-130	
1,2-Dichloropropane	ug/L	<1.0	20	17.9	90	35-165	
1,3-Dichlorobenzene	ug/L	<1.0	20	18.5	92	70-130	
1,4-Dichlorobenzene	ug/L	<1.0	20	17.5	88	65-135	
Benzene	ug/L	<1.0	20	18.3	92	65-135	
Bromodichloromethane	ug/L	<1.0	20	12.2	61	65-135	M1
Bromoform	ug/L	<1.0	20	7.6	38	70-130	M0
Bromomethane	ug/L	<1.0	20	11.7	59	15-185	
Carbon tetrachloride	ug/L	<1.0	20	9.7	49	70-130	M0
Chlorobenzene	ug/L	<1.0	20	20.0	100	65-135	
Chloroethane	ug/L	<1.0	20	23.2	116	40-160	
Chloroform	ug/L	<1.0	20	15.6	78	70-135	
Chloromethane	ug/L	<1.0	20	10.4	52	10-205	
cis-1,2-Dichloroethene	ug/L	1.1	20	17.9	84	66-136	
cis-1,3-Dichloropropene	ug/L	<1.0	20	9.5	48	25-175	
Dibromochloromethane	ug/L	<1.0	20	10.2	51	70-135	M1
Dichlorodifluoromethane	ug/L	<1.0	20	7.4	37	10-146	v3
Ethylbenzene	ug/L	<1.0	20	20.5	103	60-140	
Methylene Chloride	ug/L	<1.0	20	14.9	74	60-140	
Tetrachloroethene	ug/L	<1.0	20	22.8	114	65-135	
Toluene	ug/L	<1.0	20	19.7	99	70-130	
trans-1,2-Dichloroethene	ug/L	<1.0	20	15.1	76	70-130	
trans-1,3-Dichloropropene	ug/L	<1.0	20	7.9	40	50-150	M1,v3
Trichloroethene	ug/L	1.0	20	20.4	97	65-135	
Trichlorofluoromethane	ug/L	<1.0	20	18.2	91	50-150	
Vinyl chloride	ug/L	<1.0	20	14.8	74	5-195	
Xylene (Total)	ug/L	<1.0	60	60.8	101	72-141	
1,2-Dichloroethane-d4 (S)	%				90	76-127	
4-Bromofluorobenzene (S)	%				95	80-110	
Toluene-d8 (S)	%				97	87-120	

SAMPLE DUPLICATE: 1201860

Parameter	Units	70198509002	Dup	RPD	Qualifiers
		Result	Result		
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	<1.0	<1.0		

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QUALITY CONTROL DATA

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

SAMPLE DUPLICATE: 1201860

Parameter	Units	70198509002 Result	Dup Result	RPD	Qualifiers
Benzene	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<1.0	<1.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,2-Dichloroethene	ug/L	12.9	14.1	9	
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		v3
Ethylbenzene	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	40.3	41.1	2	
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		v3
Trichloroethene	ug/L	35.1	35.8	2	
Trichlorofluoromethane	ug/L	<1.0	<1.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<1.0	<1.0		
1,2-Dichloroethane-d4 (S)	%	91	94		
4-Bromofluorobenzene (S)	%	93	95		
Toluene-d8 (S)	%	99	99		

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QUALITY CONTROL DATA

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

QC Batch:	238238	Analysis Method:	SM22 2540C
QC Batch Method:	SM22 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Melville

Associated Lab Samples: 70198509001, 70198509002

METHOD BLANK: 1203417 Matrix: Water

Associated Lab Samples: 70198509001, 70198509002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	12/23/21 14:46	

LABORATORY CONTROL SAMPLE: 1203418

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	516	103	85-115	

MATRIX SPIKE SAMPLE: 1203420

Parameter	Units	70198340001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	74.0	300	375	100	75-125	

MATRIX SPIKE SAMPLE: 1203422

Parameter	Units	70198340002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	77.0	300	375	99	75-125	

SAMPLE DUPLICATE: 1203419

Parameter	Units	70198340001 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	74.0	73.0	1	

SAMPLE DUPLICATE: 1203421

Parameter	Units	70198340002 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	77.0	79.0	3	

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QUALITY CONTROL DATA

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

QC Batch: 238113

Analysis Method: EPA 9040C

QC Batch Method: EPA 9040C

Analysis Description: 9040 pH

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70198509001, 70198509002

SAMPLE DUPLICATE: 1202654

Parameter	Units	70198622001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.9	7.9		0 H3,H6,N3
Temperature, Water (C)	deg C	15.2	15.3		1 H3,H6

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QUALIFIERS

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 70198509001

[1] 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

Sample: 70198509002

[1] 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COSCO #344035 - 12/16

Pace Project No.: 70198509

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70198509001	RW-3D	EPA 624.1	237882		
70198509002	EFFLUENT	EPA 624.1	237882		
70198509001	RW-3D	SM22 2540C	238238		
70198509002	EFFLUENT	SM22 2540C	238238		
70198509001	RW-3D	EPA 9040C	238113		
70198509002	EFFLUENT	EPA 9040C	238113		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Rec

WO#: 70198509

PM: LS1

Due Date: 01/05/22

Client Name:

Project

CLIENT: AZTECH-LABEL

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: 5064 5210 3160

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals intact: ☐ Yes ☒ No ☐ N/APacking Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Thermometer Used: TH091

Correction Factor: 0.00

Cooler Temperature(°C): 2.6

Cooler Temperature Corrected(°C): 2.6

Temperature Blank Present: ☐ Yes ☒ No

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (☒ N/A, water sample)

Date and Initials of person examining contents: 12/18/12

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC,

Did samples originate from a foreign source

NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ Noincluding Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		7.
Sufficient Volume: (Triple volume provided for I)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		12.
-Includes date/time/ID, Matrix: SL WT OIL				
All containers needing preservation have been checked?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with method recommendation?				
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NAOH>12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DR0/8015 (water).				
Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	14. Initial when completed: Lot # of added preservative: Date/Time preservative added:
KI starch test strips Lot #				Positive for Res. Chlorine? Y N
Residual chlorine strips Lot #				
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	15. Positive for Sulfide? Y N
Lead Acetate Strips Lot #				
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	16.
Trip Blank Present:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	17.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

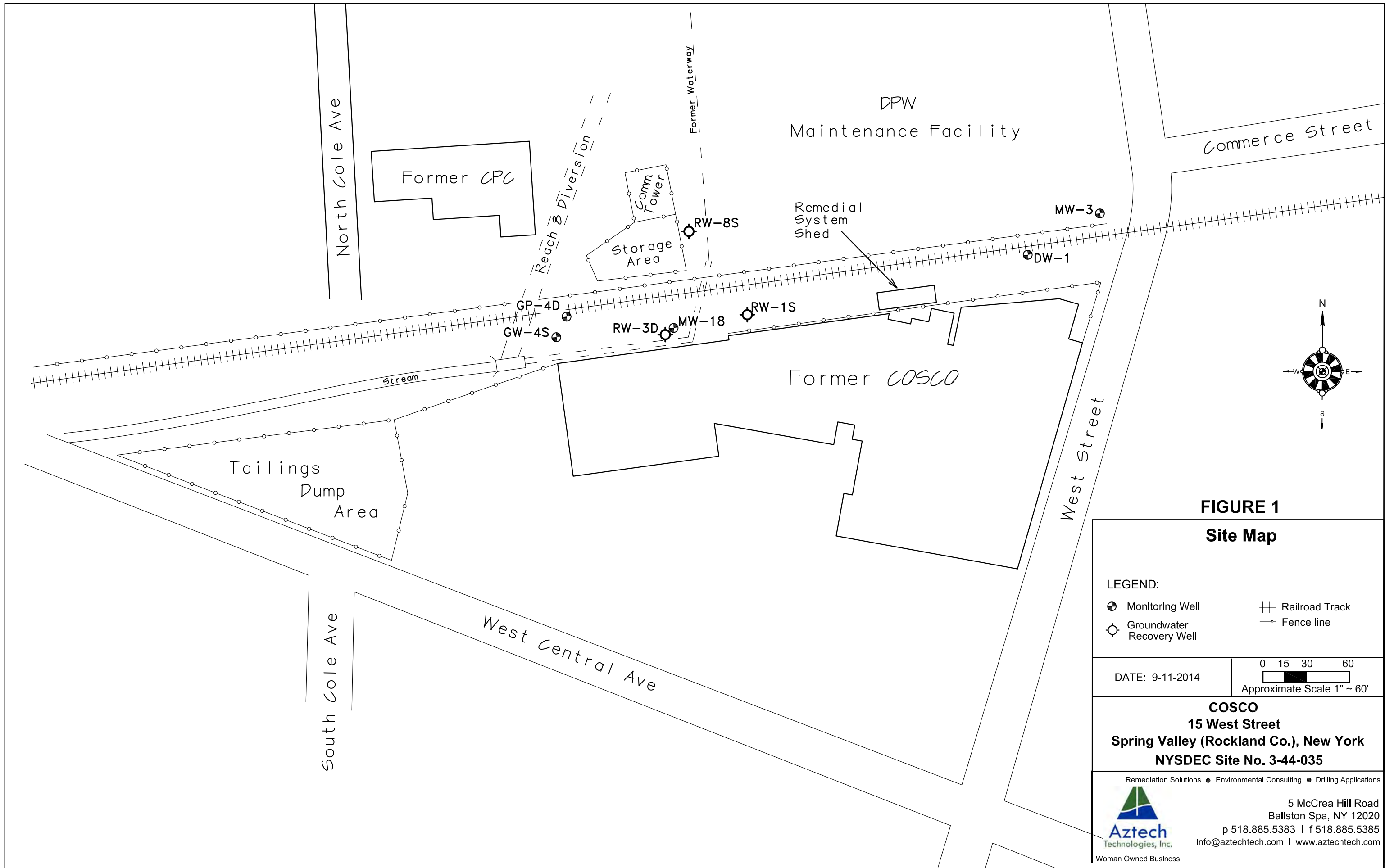
Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:



April 18, 2022

Robert Strang, E.I.T.
New York State Department of Environmental Conservation
Remedial Section D, Bureau E
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7014

**RE: First Quarter 2022 Operating Summary Report – Cosco Site
Site Number 344035**

Mr. Strang,

LaBella Associates (LaBella) has prepared the following correspondence to summarize the operation and maintenance (O&M) activities and laboratory analytical results for the New York State Department of Environmental Conservation (NYSDEC) COSCO site located in Spring Valley, New York. The activities summarized within this report include the first quarter of 2022 operation and maintenance O&M, and system sampling events conducted by LaBella. Typical tasks performed during O&M activities include:

- System performance readings (flow, pressure, control settings);
- Well gauging;
- Monthly system sampling and laboratory analysis;
- System maintenance;
- Grounds maintenance.

Non-routing O&M activities include:

- Annual SSDS inspection;
- Semi-annual site-wide sampling

Non-routine O&M activities are reported in separate reports.

Site Background

The site is located in the Village of Spring Valley, Rockland County, New York. The site is bordered by a Conrail right of way to the north, West Central Avenue to the south, West Street to the east. The western end of the site is bounded by the intersection between the Conrail right of way and West Central Avenue (**Figure 1**).

The Consolidated Stamp Company (COSCO) historically used trichloroethylene (TCE) in a vapor degreasing process as part of their operation and also discharged wastewater containing TCE into a drainage feature known as the “Reach B Diversion”.

The remedial objective for groundwater at the COSCO site (as per the August 1999 Amendment to the Record of Decision) is to contain the site related contaminants by extracting groundwater from overburden and bedrock, treat the groundwater onsite to remove volatile organic compounds



(VOC's), and discharge the treated groundwater. The primary contaminants of concern (COCs) are TCE, tetrachloroethylene (PCE) and Cis-1-2-dichloroethene (DCE), and degradation byproducts.

The site includes eight (8) groundwater monitoring and/or recovery wells from which monitoring of groundwater quality can be conducted. Five (5) of these wells are completed within the shallow unconsolidated deposits and three (3) are completed within the bedrock.

The current groundwater extraction and treatment (GWE&T) system became operational at the site in January, 2012. This system has extracted groundwater from the overburden via recovery wells RW-1S and RW-8S, and from the bedrock via well RW-3D. The GWE&T system currently extracts groundwater from the bedrock lift well RW-3D. Extracted groundwater is conveyed via underground piping from the recovery well(s) to the treatment system shed located in the area along the Conrail right of way north of the COSCO building. The extracted groundwater is temporarily held in a 1,500-gallon polyethylene batch tank prior to treatment. Treatment is via two (2) bag filter units (connected in a parallel configuration) followed by air stripping. Once air stripping is completed, the treated water is discharged to the "Reach B Diversion" via underground piping.

Procedures

The GWE&T system O&M is via a combination of daily e-mails from the systems programmable logic controller (PLC), and bi-weekly site visits. The daily emails include specific system performance readings (flows, pressures, etc.) that help to evaluate system performance and anticipate O&M tasks to be performed during the bi-weekly site visits.

- System Performance Readings:
 - System Flow – system flow rate and flow total data is transmitted daily via email. Data includes flow rate from active recovery well(s) (currently RW-3D) and flow total. The emails also include data regarding system operational status and system alarms.
 - System Pressure – Pressure readings are recorded during site inspections. Pressure readings are recorded at: the transfer pump; at each bag filter, and; at the effluent pump. Pressure readings are also monitored via the daily emails at each bag filter and the air stripper.
 - Control Settings – Transfer pump, effluent pump and air stripper blower variable frequency drive (VFD) readings are recorded during bi-weekly site inspections. This data is monitored to ensure that the system motors are operating within prescribed parameters.
- Well Gauging – The eight (8) site wells are gauged during site visits to determine the depth to groundwater using an electronic water level meter graduated in 0.01 foot intervals. Groundwater measurements are taken from the top of well casings. The wells are gauged: while the remedial system is running; immediately after the system is shutdown, and; 30 minutes after the system is shutdown. The system is restarted when gauging is completed.
- Monthly System Sampling and Laboratory Analysis – The system influent and effluent (post-treatment) is sampled monthly for laboratory analysis using EPA Method 624. The samples are also analyzed for total dissolved solids (TDS) and acidity (pH). Influent samples are collected from a sample port located on the RW-3D influent line. No other wells are being utilized for groundwater extraction at this time. Effluent samples are collected from a sample port located after the air stripper discharge pump. The samples are delivered under chain of custody protocols to Test America Laboratories, Inc. Laboratory reports are attached.
- System Maintenance – typical routine system maintenance includes: bag filter changes, valve maintenance/cleaning. Frequent non-routine maintenance typically includes: pump and blower repairs/replacement; valve replacement; air stripper cleaning.



System Flow

During the first quarter of 2022, a total of 1,959,857 gallons were treated at an average flow rate of approximately 21,776 gallons per day.

Operation and Maintenance Site Inspections

Compiled below is a summary of significant O&M tasks and events pertaining to the COSCO site. These tasks were completed during site visits completed by Aztech for the time period reported herein.

January 4, 2022 (Sampling)

The system was operational upon arrival. Samples were collected. A keyed hasp lock was installed at the front door. The system was operational upon departure.

January 21, 2022 (Non-Sampling)

The system was operational upon arrival. Bag filters were changed, and samples were not collected. The air stripper was not cleaned due to extremely frigid weather. The system was restarted and remained operational upon departure.

February 1, 2022 (Sampling)

The system was operational upon arrival. Samples were collected and the system was operational upon departure.

February 16, 2022 (Non-Sampling)

The system was operational upon arrival. Bag filters were changed, and samples were not collected. The system was operational upon departure.

March 3, 2022 (Sampling)

The system was down upon arrival and was restarted. Samples were collected and the system was operational upon departure.

March 28, 2022 (Non-Sampling)

The system was down upon arrival due to power loss. Bag filters were changed, and samples were not collected. Air stripper trays were cleaned. The system was operational upon departure.

Summary and Recommendations

Site visits and system sampling continue on a bi-monthly basis. During each non-sampling site visit, bag filters are replaced and valves are cleaned. Additionally, system performance readings as well as water level readings are taken. Samples are collected from the RW-3D, and effluent sampling ports at the first site visit of the month.

LaBella recommends continuing the treatment of recovered groundwater at the site utilizing air stripper treatment system. Further recommendations are outlined in the sites periodic review.

LaBella would like to thank you for the opportunity to offer our services for this site.

If you have any questions or comments regarding the information contained herein, please contact our office at 518-885-5383.



Respectfully submitted,

LaBella Associates

Sabrina Campfield
Project Manager

ATTACHMENTS:

Laboratory Analytical Reports
Figure 1



January 2022 Analytical Data

January 12, 2022

Sabrina Campfield
LaBella

,

RE: Project: COSCO SPILL #344035 - 1/4
Pace Project No.: 70199989

Dear Sabrina Campfield:

Enclosed are the analytical results for sample(s) received by the laboratory on January 06, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Melville

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Lea Sherman
lea.sherman@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Robert Strang, NYDEC



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747

Connecticut Certification #: PH-0435

Delaware Certification # NY 10478

Maryland Certification #: 208

Massachusetts Certification #: M-NY026

New Hampshire Certification #: 2987

New Jersey Certification #: NY158

New York Certification #: 10478 Primary Accrediting Body

Pennsylvania Certification #: 68-00350

Rhode Island Certification #: LAO00340

Virginia Certification # 460302

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

Sample: RAW=3D		Lab ID: 70199989001	Collected: 01/04/22 09:00	Received: 01/06/22 10:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		01/06/22 19:25	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/06/22 19:25	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		01/06/22 19:25	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/06/22 19:25	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/06/22 19:25	56-23-5	L2,v3
Chlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:25	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/06/22 19:25	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/06/22 19:25	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		01/06/22 19:25	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/06/22 19:25	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:25	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:25	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:25	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/06/22 19:25	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:25	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:25	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/06/22 19:25	75-35-4	
cis-1,2-Dichloroethene	27.2	ug/L	1.0	1		01/06/22 19:25	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/06/22 19:25	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/06/22 19:25	78-87-5	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/06/22 19:25	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/06/22 19:25	10061-02-6	
Ethylbenzene	<1.0	ug/L	1.0	1		01/06/22 19:25	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		01/06/22 19:25	75-09-2	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/06/22 19:25	79-34-5	
Tetrachloroethene	57.6	ug/L	1.0	1		01/06/22 19:25	127-18-4	
Toluene	<1.0	ug/L	1.0	1		01/06/22 19:25	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:25	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:25	79-00-5	IC
Trichloroethene	59.5	ug/L	1.0	1		01/06/22 19:25	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/06/22 19:25	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/06/22 19:25	75-01-4	
Xylene (Total)	<1.0	ug/L	1.0	1		01/06/22 19:25	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	84	%	80-110	1		01/06/22 19:25	460-00-4	
Toluene-d8 (S)	100	%	87-120	1		01/06/22 19:25	2037-26-5	
1,2-Dichloroethane-d4 (S)	110	%	76-127	1		01/06/22 19:25	17060-07-0	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	650	mg/L	20.0	1		01/10/22 12:08		
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville						
pH	7.2	Std. Units	0.10	1		01/10/22 12:02		H3,H6, N3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

Sample: RAW=3D		Lab ID: 70199989001	Collected: 01/04/22 09:00	Received: 01/06/22 10:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville						
Temperature, Water (C)	22.3	deg C	0.10	1		01/10/22 12:02		H3,H6

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

Sample: EFFLUENT		Lab ID: 70199989002	Collected: 01/04/22 09:10	Received: 01/06/22 10:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
624.1 Volatile Organics		Analytical Method: EPA 624.1 Pace Analytical Services - Melville						
Benzene	<1.0	ug/L	1.0	1		01/06/22 19:07	71-43-2	
Bromodichloromethane	<1.0	ug/L	1.0	1		01/06/22 19:07	75-27-4	
Bromoform	<1.0	ug/L	1.0	1		01/06/22 19:07	75-25-2	
Bromomethane	<1.0	ug/L	1.0	1		01/06/22 19:07	74-83-9	
Carbon tetrachloride	<1.0	ug/L	1.0	1		01/06/22 19:07	56-23-5	L2,v3
Chlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:07	108-90-7	
Chloroethane	<1.0	ug/L	1.0	1		01/06/22 19:07	75-00-3	
Chloroform	<1.0	ug/L	1.0	1		01/06/22 19:07	67-66-3	
Chloromethane	<1.0	ug/L	1.0	1		01/06/22 19:07	74-87-3	
Dibromochloromethane	<1.0	ug/L	1.0	1		01/06/22 19:07	124-48-1	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:07	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:07	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	1		01/06/22 19:07	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	1		01/06/22 19:07	75-71-8	v3
1,1-Dichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:07	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:07	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	1		01/06/22 19:07	75-35-4	
cis-1,2-Dichloroethene	1.2	ug/L	1.0	1		01/06/22 19:07	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	1		01/06/22 19:07	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	1		01/06/22 19:07	78-87-5	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/06/22 19:07	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	1		01/06/22 19:07	10061-02-6	
Ethylbenzene	<1.0	ug/L	1.0	1		01/06/22 19:07	100-41-4	
Methylene Chloride	<1.0	ug/L	1.0	1		01/06/22 19:07	75-09-2	
1,1,2,2-Tetrachloroethane	<1.0	ug/L	1.0	1		01/06/22 19:07	79-34-5	
Tetrachloroethene	<1.0	ug/L	1.0	1		01/06/22 19:07	127-18-4	
Toluene	<1.0	ug/L	1.0	1		01/06/22 19:07	108-88-3	
1,1,1-Trichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:07	71-55-6	
1,1,2-Trichloroethane	<1.0	ug/L	1.0	1		01/06/22 19:07	79-00-5	IC
Trichloroethene	<1.0	ug/L	1.0	1		01/06/22 19:07	79-01-6	
Trichlorofluoromethane	<1.0	ug/L	1.0	1		01/06/22 19:07	75-69-4	
Vinyl chloride	<1.0	ug/L	1.0	1		01/06/22 19:07	75-01-4	
Xylene (Total)	<1.0	ug/L	1.0	1		01/06/22 19:07	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	80	%	80-110	1		01/06/22 19:07	460-00-4	
Toluene-d8 (S)	101	%	87-120	1		01/06/22 19:07	2037-26-5	
1,2-Dichloroethane-d4 (S)	104	%	76-127	1		01/06/22 19:07	17060-07-0	
2540C Total Dissolved Solids		Analytical Method: SM22 2540C Pace Analytical Services - Melville						
Total Dissolved Solids	658	mg/L	20.0	1		01/10/22 12:09		
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville						
pH	8.0	Std. Units	0.10	1		01/10/22 12:02		H3,H6, N3

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ANALYTICAL RESULTS

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

Sample: EFFLUENT		Lab ID: 70199989002	Collected: 01/04/22 09:10	Received: 01/06/22 10:20	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9040 Corrosivity-pH >20% water		Analytical Method: EPA 9040C Pace Analytical Services - Melville						
Temperature, Water (C)	22.5	deg C	0.10	1		01/10/22 12:02		H3,H6

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QUALITY CONTROL DATA

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

QC Batch: 239699

Analysis Method: EPA 624.1

QC Batch Method: EPA 624.1

Analysis Description: 624.1 MSV

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70199989001, 70199989002

METHOD BLANK: 1210992

Matrix: Water

Associated Lab Samples: 70199989001, 70199989002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	01/06/22 13:44	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	01/06/22 13:44	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	01/06/22 13:44	IC
1,1-Dichloroethane	ug/L	<1.0	1.0	01/06/22 13:44	
1,1-Dichloroethene	ug/L	<1.0	1.0	01/06/22 13:44	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	01/06/22 13:44	
1,2-Dichloroethane	ug/L	<1.0	1.0	01/06/22 13:44	
1,2-Dichloropropane	ug/L	<1.0	1.0	01/06/22 13:44	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	01/06/22 13:44	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	01/06/22 13:44	
Benzene	ug/L	<1.0	1.0	01/06/22 13:44	
Bromodichloromethane	ug/L	<1.0	1.0	01/06/22 13:44	
Bromoform	ug/L	<1.0	1.0	01/06/22 13:44	
Bromomethane	ug/L	<1.0	1.0	01/06/22 13:44	
Carbon tetrachloride	ug/L	<1.0	1.0	01/06/22 13:44	v3
Chlorobenzene	ug/L	<1.0	1.0	01/06/22 13:44	
Chloroethane	ug/L	<1.0	1.0	01/06/22 13:44	
Chloroform	ug/L	<1.0	1.0	01/06/22 13:44	
Chloromethane	ug/L	<1.0	1.0	01/06/22 13:44	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	01/06/22 13:44	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	01/06/22 13:44	
Dibromochloromethane	ug/L	<1.0	1.0	01/06/22 13:44	
Dichlorodifluoromethane	ug/L	<1.0	1.0	01/06/22 13:44	v3
Ethylbenzene	ug/L	<1.0	1.0	01/06/22 13:44	
Methylene Chloride	ug/L	<1.0	1.0	01/06/22 13:44	
Tetrachloroethene	ug/L	<1.0	1.0	01/06/22 13:44	
Toluene	ug/L	<1.0	1.0	01/06/22 13:44	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	01/06/22 13:44	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	01/06/22 13:44	
Trichloroethene	ug/L	<1.0	1.0	01/06/22 13:44	
Trichlorofluoromethane	ug/L	<1.0	1.0	01/06/22 13:44	
Vinyl chloride	ug/L	<1.0	1.0	01/06/22 13:44	
Xylene (Total)	ug/L	<1.0	1.0	01/06/22 13:44	
1,2-Dichloroethane-d4 (S)	%	96	76-127	01/06/22 13:44	
4-Bromofluorobenzene (S)	%	89	80-110	01/06/22 13:44	
Toluene-d8 (S)	%	103	87-120	01/06/22 13:44	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

LABORATORY CONTROL SAMPLE: 1210993

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	14.6	73	70-130	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	60-140	
1,1,2-Trichloroethane	ug/L	20	19.3	96	70-130	IC
1,1-Dichloroethane	ug/L	20	16.5	83	70-130	
1,1-Dichloroethene	ug/L	20	16.9	84	70-130	
1,2-Dichlorobenzene	ug/L	20	18.4	92	65-135	
1,2-Dichloroethane	ug/L	20	18.3	92	70-130	
1,2-Dichloropropane	ug/L	20	18.1	90	35-165	
1,3-Dichlorobenzene	ug/L	20	18.4	92	70-130	
1,4-Dichlorobenzene	ug/L	20	18.0	90	65-135	
Benzene	ug/L	20	17.7	88	65-135	
Bromodichloromethane	ug/L	20	17.9	90	65-135	
Bromoform	ug/L	20	16.2	81	70-130	
Bromomethane	ug/L	20	16.7	84	15-185	
Carbon tetrachloride	ug/L	20	13.9	69	70-130	L2,v3
Chlorobenzene	ug/L	20	18.4	92	65-135	
Chloroethane	ug/L	20	17.0	85	40-160	
Chloroform	ug/L	20	17.1	86	70-135	
Chloromethane	ug/L	20	17.8	89	10-205	
cis-1,2-Dichloroethene	ug/L	20	17.5	87	77-121	
cis-1,3-Dichloropropene	ug/L	20	19.1	96	25-175	
Dibromochloromethane	ug/L	20	18.6	93	70-135	
Dichlorodifluoromethane	ug/L	20	16.0	80	10-131	v3
Ethylbenzene	ug/L	20	18.7	94	60-140	
Methylene Chloride	ug/L	20	18.9	94	60-140	
Tetrachloroethene	ug/L	20	17.0	85	65-135	
Toluene	ug/L	20	18.5	92	70-130	
trans-1,2-Dichloroethene	ug/L	20	17.1	85	70-130	
trans-1,3-Dichloropropene	ug/L	20	20.1	101	50-150	
Trichloroethene	ug/L	20	16.0	80	65-135	
Trichlorofluoromethane	ug/L	20	14.1	70	50-150	
Vinyl chloride	ug/L	20	17.4	87	5-195	
Xylene (Total)	ug/L	60	59.8	100	77-121	
1,2-Dichloroethane-d4 (S)	%			99	76-127	
4-Bromofluorobenzene (S)	%			91	80-110	
Toluene-d8 (S)	%			100	87-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

QC Batch: 239970

Analysis Method: SM22 2540C

QC Batch Method: SM22 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70199989001, 70199989002

METHOD BLANK: 1212525

Matrix: Water

Associated Lab Samples: 70199989001, 70199989002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	5.0	01/10/22 11:41	

LABORATORY CONTROL SAMPLE: 1212526

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	500	512	102	85-115	

MATRIX SPIKE SAMPLE: 1212528

Parameter	Units	70199765005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	246	600	832	98	75-125	

MATRIX SPIKE SAMPLE: 1212530

Parameter	Units	70199669004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	150	300	439	96	75-125	

SAMPLE DUPLICATE: 1212527

Parameter	Units	70199765005 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	246	250	2	

SAMPLE DUPLICATE: 1212529

Parameter	Units	70199669004 Result	Dup Result	RPD	Qualifiers
Total Dissolved Solids	mg/L	150	154	3	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

QC Batch: 239989

Analysis Method: EPA 9040C

QC Batch Method: EPA 9040C

Analysis Description: 9040 pH

Laboratory: Pace Analytical Services - Melville

Associated Lab Samples: 70199989001, 70199989002

SAMPLE DUPLICATE: 1212573

Parameter	Units	70199989001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	7.2	7.2	0	H3,H6,N3
Temperature, Water (C)	deg C	22.3	22.4	0	H3,H6

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

SAMPLE QUALIFIERS

Sample: 70199989001

[1] 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

Sample: 70199989002

[1] 2-Chloroethylvinyl ether not reportable due to improper sample preservation.

ANALYTE QUALIFIERS

H3 Sample was received or analysis requested beyond the recognized method holding time.

H6 Analysis initiated outside of the 15 minute EPA recommended holding time.

IC The initial calibration for this compound was outside of method control limits. The result is estimated.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

v3 The continuing calibration verification was below the method acceptance limit. Any detection for the analyte in the associated samples may have a low bias.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COSCO SPILL #344035 - 1/4

Pace Project No.: 70199989

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70199989001	RAW=3D	EPA 624.1	239699		
70199989002	EFFLUENT	EPA 624.1	239699		
70199989001	RAW=3D	SM22 2540C	239970		
70199989002	EFFLUENT	SM22 2540C	239970		
70199989001	RAW=3D	EPA 9040C	239989		
70199989002	EFFLUENT	EPA 9040C	239989		

REPORT OF LABORATORY ANALYSIS

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Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>

Company Name: LaBella Associates

Address: 5 McCrea Hill Road, Ballston Spa, NY 12020

Phone: 845-866-1335

Project Name:	COSCO #344035
---------------	---------------

Project Location: 15 West Street, Spring Valley, NY

Project Number:	COSCO #344035
-----------------	---------------

Project Manager: Sabrina Campfield

Pace Analytical Quote Name/Number

Invoice Recipient:

Sampled By:

Data Analytics	Beginning	Ending	Initiative

Work Order#	Client Sample ID / Description	Sampling Date/Time	Ending Date/Time	Composite	Grab	matrix	Conc Code
	RW=3D	11/4/2020	11/4/2020			Water	
	Effluent	11/4/2020	11/4/2020			Water	

[illegible][illegible][illegible]

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) <i>Henry Helms</i>	Date/Time: 1/4 1300
Received by: (signature) <i>RAEL</i>	Date/Time: 1/5/22 10:42
Relinquished by: (signature) <i>POCS</i>	Date/Time: 1/5/22 11:00
Received by: (signature) <i>Emilia</i>	Date/Time: 1/6/22 10:20

13 of 14	Received by: (signature)	Date/Time:
14 of 14	Received by: (signature)	Date/Time:

Program & Regulatory Information	
<input type="checkbox"/> AWQ STDS	<input type="checkbox"/> NY TOGS
<input type="checkbox"/> NYC Sewer Discharge	<input type="checkbox"/> NY CP-51
<input type="checkbox"/> Part 360 GW (Landfill)	
<input type="checkbox"/> NY Restricted Use	
<input type="checkbox"/> NY Unrestricted Use	
<input type="checkbox"/> NY Part 375	
Other:	

Project Entity	
<input type="checkbox"/> Government	<input type="checkbox"/> Municipality
<input type="checkbox"/> Federal	<input type="checkbox"/> 21 J
<input type="checkbox"/> City	<input type="checkbox"/> Brownfield

	Deliverables	<input type="checkbox"/> Enhanced Data Package <input type="checkbox"/> NY/DEC EQUIS EDD <input type="checkbox"/> EQUIS (Standard) EDD <input type="checkbox"/> NY Regulatory EDD <input type="checkbox"/> NY Regs Hits-Only EDD
	Other:	NELAC and AIHA-LAP, LLC Accredited

<input type="checkbox"/> MWRA <input type="checkbox"/> School <input type="checkbox"/> MBTA	<input type="checkbox"/> WRTA <input type="checkbox"/> Chromatogram <input type="checkbox"/> AIHA-LAP, LLC	Other
---	--	-------

A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please
define)

<input type="checkbox"/> PCB ONLY <input type="checkbox"/> Soxhlet <input type="checkbox"/> Non Soxhlet
--



Sample Condition Upon Receipt

WO#: 70199989

Client Name:

LABELL

Project

PM: LS1

Due Date: 01/20/22

CLIENT: AZTECH-LABEL

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking #: SC64 5210 3712

Custody Seal on Cooler/Box Present: ☐ Yes ☐ No Seals intact: ☐ Yes ☐ No ☐ N/APacking Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Ziploc ☐ None ☐ Other

Thermometer Used: TH091

Correction Factor: 0.00

Cooler Temperature(°C): 0.0

Cooler Temperature Corrected(°C): 0.0

Temperature Blank Present: ☐ Yes ☒ No

Type of Ice: Wet Blue None

☐ Samples on ice, cooling process has begun

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil ☒ N/A, water sample

Date and Initials of person examining contents: KW 1/16/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC,

Did samples originate from a foreign source

NM, NY, OK, OR, SC, TN, TX, or VA (check map)? ☐ Yes ☐ Noincluding Hawaii and Puerto Rico)? ☐ Yes ☒ No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		7.
Sufficient Volume: (Triple volume provided for I)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		10.
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		11.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		12.
-Includes date/time/ID, Matrix: SL (W) OIL				
All containers needing preservation have been checked?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13.
pH paper Lot #				
All containers needing preservation are found to be in compliance with method recommendation?				Sample #
(HNO ₃ , H ₂ SO ₄ , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DR0/8015 (water).				Initial when completed:
Per Method, VOA pH is checked after analysis				Lot # of added preservative:
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Date/Time preservative added:
KI starch test strips Lot #				
Residual chlorine strips Lot #				14.
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Positive for Res. Chlorine? Y N
Lead Acetate Strips Lot #				15.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	Positive for Sulfide? Y N
Trip Blank Present:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	17.
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:



February 2022 Analytical Data

February 9, 2022

Sabrina Campbell
NYDEC_Labella Associates - Ballston Spa, NY
5 McCrea Hill Road
Ballston Spa, NY 12020

Project Location: COSCO #344035
Client Job Number:
Project Number: 344035
Laboratory Work Order Number: 22B0134

Enclosed are results of analyses for samples as received by the laboratory on February 2, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mike Buttrick
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_Labella Associates - Ballston Spa, NY
5 McCrea Hill Road
Ballston Spa, NY 12020
ATTN: Sabrina Campbell

REPORT DATE: 2/9/2022

PURCHASE ORDER NUMBER: 142773

PROJECT NUMBER: 344035

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22B0134

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: COSCO #344035

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RW-3D	22B0134-01	Water		624.1 SM21-23 2540C SM21-23 4500 H B	
Effluent	22B0134-02	Water		624.1 SM21-23 2540C SM21-23 4500 H B	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

624.1

Qualifications:

PR-10

pH of sample (pH 7) is outside of method specified preservation criteria.

Analyte & Samples(s) Qualified:

22B0134-01[RW-3D]

SM21-23 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

22B0134-01[RW-3D], 22B0134-02[Effluent]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO #344035

Sample Description:

Work Order: 22B0134

Date Received: 2/2/2022

Field Sample #: RW-3D

Sampled: 2/1/2022 12:00

Sample ID: 22B0134-01

Sample Matrix: Water

Sample Flags: PR-10

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Tetrachloroethylene	1.17	2.00	0.187	µg/L	1	J	624.1	2/3/22	2/3/22 16:37	MFF
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Trichloroethylene	1.54	2.00	0.189	µg/L	1	J	624.1	2/3/22	2/3/22 16:37	MFF
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	2/3/22	2/3/22 16:37	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	96.4	70-130								
Toluene-d8	107	70-130								
4-Bromofluorobenzene	102	70-130								

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO #344035

Sample Description:

Work Order: 22B0134

Date Received: 2/2/2022

Field Sample #: RW-3D

Sampled: 2/1/2022 12:00

Sample ID: 22B0134-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @20.8°C	7.2		pH Units	1	H-05	SM21-23 4500 H B	2/2/22	2/2/22 20:20	CB2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO #344035

Sample Description:

Work Order: 22B0134

Date Received: 2/2/2022

Field Sample #: RW-3D

Sampled: 2/1/2022 12:00

Sample ID: 22B0134-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	660	10	mg/L	1		SM21-23 2540C	2/7/22	2/7/22 13:10	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO #344035

Sample Description:

Work Order: 22B0134

Date Received: 2/2/2022

Field Sample #: Effluent

Sampled: 2/1/2022 12:05

Sample ID: 22B0134-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Bromomethane	<1.54	2.00	1.54	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Chloroform	0.550	2.00	0.168	µg/L	1	J	624.1	2/3/22	2/3/22 16:13	MFF
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Tetrachloroethylene	57.5	2.00	0.187	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Trichloroethylene	54.8	2.00	0.189	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	2/3/22	2/3/22 16:13	MFF
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	96.7	70-130								
Toluene-d8	107	70-130								
4-Bromofluorobenzene	103	70-130								

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO #344035

Sample Description:

Work Order: 22B0134

Date Received: 2/2/2022

Field Sample #: Effluent

Sampled: 2/1/2022 12:05

Sample ID: 22B0134-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @20°C	8.1		pH Units	1	H-05	SM21-23 4500 H B	2/2/22	2/2/22 20:20	CB2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO #344035

Sample Description:

Work Order: 22B0134

Date Received: 2/2/2022

Field Sample #: Effluent

Sampled: 2/1/2022 12:05

Sample ID: 22B0134-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	650	10	mg/L	1		SM21-23 2540C	2/7/22	2/7/22 13:10	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5030B Analytical Method: 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22B0134-01 [RW-3D]	B300355	5	5.00	02/03/22
22B0134-02 [Effluent]	B300355	5	5.00	02/03/22

SM21-23 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
22B0134-01 [RW-3D]	B300521	50.0	02/07/22
22B0134-02 [Effluent]	B300521	50.0	02/07/22

SM21-23 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
22B0134-01 [RW-3D]	B300313	50.0	02/02/22
22B0134-02 [Effluent]	B300313	50.0	02/02/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B300355 - SW-846 5030B
Blank (B300355-BLK1)

Prepared & Analyzed: 02/03/22

Benzene	ND	1.00	µg/L							
Bromodichloromethane	ND	2.00	µg/L							
Bromoform	ND	2.00	µg/L							
Bromomethane	ND	2.00	µg/L							
Carbon Tetrachloride	ND	2.00	µg/L							
Chlorobenzene	ND	2.00	µg/L							
Chlorodibromomethane	ND	2.00	µg/L							
Chloroethane	ND	2.00	µg/L							
Chloroform	ND	2.00	µg/L							
Chloromethane	ND	2.00	µg/L							
1,2-Dichlorobenzene	ND	2.00	µg/L							
1,3-Dichlorobenzene	ND	2.00	µg/L							
1,4-Dichlorobenzene	ND	2.00	µg/L							
1,2-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethylene	ND	2.00	µg/L							
trans-1,2-Dichloroethylene	ND	2.00	µg/L							
1,2-Dichloropropane	ND	2.00	µg/L							
cis-1,3-Dichloropropene	ND	2.00	µg/L							
trans-1,3-Dichloropropene	ND	2.00	µg/L							
Ethylbenzene	ND	2.00	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	µg/L							
Methylene Chloride	ND	5.00	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.00	µg/L							
Tetrachloroethylene	ND	2.00	µg/L							
Toluene	ND	1.00	µg/L							
1,1,1-Trichloroethane	ND	2.00	µg/L							
1,1,2-Trichloroethane	ND	2.00	µg/L							
Trichloroethylene	ND	2.00	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.00	µg/L							
Vinyl Chloride	ND	2.00	µg/L							
m+p Xylene	ND	2.00	µg/L							
o-Xylene	ND	1.00	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.8		µg/L	25.0		95.3	70-130			
Surrogate: Toluene-d8	26.7		µg/L	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	26.2		µg/L	25.0		105	70-130			

LCS (B300355-BS1)

Prepared & Analyzed: 02/03/22

Benzene	23	1.00	µg/L	20.0		117	65-135			
Bromodichloromethane	22	2.00	µg/L	20.0		112	65-135			
Bromoform	21	2.00	µg/L	20.0		103	70-130			
Bromomethane	18	2.00	µg/L	20.0		91.4	15-185			
Carbon Tetrachloride	23	2.00	µg/L	20.0		116	70-130			
Chlorobenzene	24	2.00	µg/L	20.0		121	65-135			
Chlorodibromomethane	22	2.00	µg/L	20.0		108	70-135			
Chloroethane	24	2.00	µg/L	20.0		122	40-160			
Chloroform	22	2.00	µg/L	20.0		111	70-135			
Chloromethane	19	2.00	µg/L	20.0		97.2	20-205			
1,2-Dichlorobenzene	23	2.00	µg/L	20.0		113	65-135			
1,3-Dichlorobenzene	23	2.00	µg/L	20.0		117	70-130			
1,4-Dichlorobenzene	22	2.00	µg/L	20.0		110	65-135			
1,2-Dichloroethane	20	2.00	µg/L	20.0		99.6	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B300355 - SW-846 5030B										
LCS (B300355-BS1)				Prepared & Analyzed: 02/03/22						
1,1-Dichloroethane	22	2.00	µg/L	20.0		111	70-130			
1,1-Dichloroethylene	24	2.00	µg/L	20.0		118	50-150			
trans-1,2-Dichloroethylene	22	2.00	µg/L	20.0		111	70-130			
1,2-Dichloropropane	22	2.00	µg/L	20.0		110	35-165			
cis-1,3-Dichloropropene	23	2.00	µg/L	20.0		113	25-175			
trans-1,3-Dichloropropene	22	2.00	µg/L	20.0		111	50-150			
Ethylbenzene	23	2.00	µg/L	20.0		116	60-140			
Methyl tert-Butyl Ether (MTBE)	22	2.00	µg/L	20.0		109	70-130			
Methylene Chloride	21	5.00	µg/L	20.0		104	60-140			
1,1,2,2-Tetrachloroethane	20	2.00	µg/L	20.0		101	60-140			
Tetrachloroethylene	24	2.00	µg/L	20.0		122	70-130			
Toluene	24	1.00	µg/L	20.0		118	70-130			
1,1,1-Trichloroethane	23	2.00	µg/L	20.0		115	70-130			
1,1,2-Trichloroethane	22	2.00	µg/L	20.0		112	70-130			
Trichloroethylene	24	2.00	µg/L	20.0		120	65-135			
Trichlorofluoromethane (Freon 11)	23	2.00	µg/L	20.0		116	50-150			
Vinyl Chloride	24	2.00	µg/L	20.0		118	5-195			
m+p Xylene	46	2.00	µg/L	40.0		116	70-130			
o-Xylene	23	1.00	µg/L	20.0		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	23.9		µg/L	25.0		95.6	70-130			
Surrogate: Toluene-d8	27.2		µg/L	25.0		109	70-130			
Surrogate: 4-Bromofluorobenzene	25.6		µg/L	25.0		102	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B300313 - SM21-23 4500 H B										
LCS (B300313-BS1)				Prepared & Analyzed: 02/02/22						
pH	6.00		pH Units	6.00		100	90-110			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B300521 - SM21-23 2540C

Blank (B300521-BLK1)

Prepared & Analyzed: 02/07/22

Total Dissolved Solids	ND	10	mg/L
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LCS (B300521-BS1)

Prepared & Analyzed: 02/07/22

Total Dissolved Solids	260		mg/L	293	87.7	64.9-119
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
PR-10	pH of sample (pH 7) is outside of method specified preservation criteria.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
624.1 in Water	
Benzene	CT,NY,MA,NH,RI,NC,ME,VA
Bromodichloromethane	CT,NY,MA,NH,RI,NC,ME,VA
Bromoform	CT,NY,MA,NH,RI,NC,ME,VA
Bromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Carbon Tetrachloride	CT,NY,MA,NH,RI,NC,ME,VA
Chlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
Chlorodibromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroform	CT,NY,MA,NH,RI,NC,ME,VA
Chloromethane	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,3-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,4-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,2-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloropropane	CT,NY,MA,NH,RI,NC,ME,VA
cis-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
Ethylbenzene	CT,NY,MA,NH,RI,NC,ME,VA
Methyl tert-Butyl Ether (MTBE)	NY,MA,NH,NC
Methylene Chloride	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2,2-Tetrachloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Tetrachloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Toluene	CT,NY,MA,NH,RI,NC,ME,VA
1,1,1-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Trichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NY,MA,NH,RI,NC,ME,VA
Vinyl Chloride	CT,NY,MA,NH,RI,NC,ME,VA
m+p Xylene	CT,NY,MA,NH,RI,NC
o-Xylene	CT,NY,MA,NH,RI,NC
SM21-23 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-23 4500 H B in Water	
pH	CT,MA,RI

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>.

Section C

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
	Mickie D. Galt		2/1/22		15:30		[Signature]		2/1/22		11:06			
	[Signature]		2/2/22				[Signature]		2-2-22		17:30			
	[Signature]		2-2-22		17:30		[Signature]		2/2/22		18:50			
<div style="display: flex; justify-content: space-between;"> <div> SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER: </div> <div> TEMP in C Received on (Y/N) Custody Sealed (Y/N) Cooler (Y/N) Samples (Y/N) Contact (Y/N) </div> </div>														

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples _____



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False
Statement will be brought to the attention of the Client - State True or False**

Client Labella

Received By DK Date 2-2-22 Time 1530

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 5 Actual Temp - 2.0
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified? _____
Are there Rushes? F Who was notified? _____
Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-	4	1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria	2oz Amb/Clear
DI-		Other Glass		Other Plastic	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Unused Media

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint	2oz Amb/Clear
DI-		Other Plastic		Other Glass	Encore
Thiosulfate-		SOC Kit		Plastic Bag	Frozen:
Sulfuric-		Perchlorate		Ziplock	

Comments:



March 2022 Analytical Data

March 10, 2022

Sabrina Campbell
NYDEC_Labella Associates - Ballston Spa, NY
5 McCrea Hill Road
Ballston Spa, NY 12020

Project Location: COSCO
Client Job Number:
Project Number: 344035
Laboratory Work Order Number: 22C0450

Enclosed are results of analyses for samples as received by the laboratory on March 7, 2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Mike Buttrick
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332NYDEC_Labella Associates - Ballston Spa, NY
5 McCrea Hill Road
Ballston Spa, NY 12020
ATTN: Sabrina Campbell

REPORT DATE: 3/10/2022

PURCHASE ORDER NUMBER: 142773

PROJECT NUMBER: 344035

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 22C0450

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: COSCO

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RW-3D	22C0450-01	Water		624.1 SM21-23 2540C SM21-23 4500 H B	
Effluent	22C0450-02	Water		624.1 SM21-23 2540C SM21-23 4500 H B	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SM21-23 4500 H B

Qualifications:

H-05

Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

22C0450-01[RW-3D], 22C0450-02[Effluent]

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO

Sample Description:

Work Order: 22C0450

Date Received: 3/7/2022

Field Sample #: RW-3D

Sampled: 3/7/2022 10:30

Sample ID: 22C0450-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Chloroform	0.720	2.00	0.168	µg/L	1	J	624.1	3/8/22	3/8/22 13:49	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Tetrachloroethylene	91.8	2.00	0.187	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Trichloroethylene	86.0	2.00	0.189	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/8/22	3/8/22 13:49	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	90.6	70-130								
Toluene-d8	96.0	70-130								
4-Bromofluorobenzene	110	70-130								

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO

Sample Description:

Work Order: 22C0450

Date Received: 3/7/2022

Field Sample #: RW-3D

Sampled: 3/7/2022 10:30

Sample ID: 22C0450-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @19°C	7.2		pH Units	1	H-05	SM21-23 4500 H B	3/7/22	3/7/22 20:45	CB2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO

Sample Description:

Work Order: 22C0450

Date Received: 3/7/2022

Field Sample #: RW-3D

Sampled: 3/7/2022 10:30

Sample ID: 22C0450-01

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	600	10	mg/L	1		SM21-23 2540C	3/8/22	3/8/22 13:04	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO

Sample Description:

Work Order: 22C0450

Date Received: 3/7/2022

Field Sample #: Effluent

Sampled: 3/7/2022 11:00

Sample ID: 22C0450-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	<0.200	1.00	0.200	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Bromodichloromethane	<0.180	2.00	0.180	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Bromoform	<0.383	2.00	0.383	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Bromomethane	<1.54	5.00	1.54	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Carbon Tetrachloride	<0.165	2.00	0.165	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Chlorobenzene	<0.105	2.00	0.105	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Chlorodibromomethane	<0.222	2.00	0.222	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Chloroethane	<0.320	2.00	0.320	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Chloroform	<0.168	2.00	0.168	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Chloromethane	<0.522	2.00	0.522	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,2-Dichlorobenzene	<0.122	2.00	0.122	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,3-Dichlorobenzene	<0.118	2.00	0.118	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,4-Dichlorobenzene	<0.130	2.00	0.130	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,2-Dichloroethane	<0.308	2.00	0.308	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,1-Dichloroethane	<0.142	2.00	0.142	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,1-Dichloroethylene	<0.141	2.00	0.141	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
trans-1,2-Dichloroethylene	<0.169	2.00	0.169	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,2-Dichloropropane	<0.181	2.00	0.181	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
cis-1,3-Dichloropropene	<0.158	2.00	0.158	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
trans-1,3-Dichloropropene	<0.168	2.00	0.168	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Ethylbenzene	<0.215	2.00	0.215	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Methyl tert-Butyl Ether (MTBE)	<0.172	2.00	0.172	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Methylene Chloride	<0.235	5.00	0.235	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,1,2,2-Tetrachloroethane	<0.127	2.00	0.127	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Tetrachloroethylene	0.270	2.00	0.187	µg/L	1	J	624.1	3/8/22	3/8/22 13:23	LBD
Toluene	<0.224	1.00	0.224	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,1,1-Trichloroethane	<0.169	2.00	0.169	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
1,1,2-Trichloroethane	<0.183	2.00	0.183	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Trichloroethylene	0.550	2.00	0.189	µg/L	1	J	624.1	3/8/22	3/8/22 13:23	LBD
Trichlorofluoromethane (Freon 11)	<0.176	2.00	0.176	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Vinyl Chloride	<0.208	2.00	0.208	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
m+p Xylene	<0.459	2.00	0.459	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
o-Xylene	<0.230	1.00	0.230	µg/L	1		624.1	3/8/22	3/8/22 13:23	LBD
Surrogates	% Recovery	Recovery Limits		Flag/Qual						
1,2-Dichloroethane-d4	88.9	70-130								
Toluene-d8	90.4	70-130								
4-Bromofluorobenzene	98.9	70-130								

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO

Sample Description:

Work Order: 22C0450

Date Received: 3/7/2022

Sampled: 3/7/2022 11:00

Field Sample #: Effluent

Sample ID: 22C0450-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
pH @18.2°C	8.1		pH Units	1	H-05	SM21-23 4500 H B	3/7/22	3/7/22 20:45	CB2

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: COSCO

Sample Description:

Work Order: 22C0450

Date Received: 3/7/2022

Field Sample #: Effluent

Sampled: 3/7/2022 11:00

Sample ID: 22C0450-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Total Dissolved Solids	580	10	mg/L	1		SM21-23 2540C	3/8/22	3/8/22 13:04	LL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5030B Analytical Method: 624.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
22C0450-01 [RW-3D]	B302730	5	5.00	03/08/22
22C0450-02 [Effluent]	B302730	5	5.00	03/08/22

SM21-23 2540C

Lab Number [Field ID]	Batch	Initial [mL]	Date
22C0450-01 [RW-3D]	B302697	50.0	03/08/22
22C0450-02 [Effluent]	B302697	50.0	03/08/22

SM21-23 4500 H B

Lab Number [Field ID]	Batch	Initial [mL]	Date
22C0450-01 [RW-3D]	B302677	50.0	03/07/22
22C0450-02 [Effluent]	B302677	50.0	03/07/22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B302730 - SW-846 5030B
Blank (B302730-BLK1)

Prepared & Analyzed: 03/08/22

Benzene	ND	1.00	µg/L							
Bromodichloromethane	ND	2.00	µg/L							
Bromoform	ND	2.00	µg/L							
Bromomethane	ND	2.00	µg/L							
Carbon Tetrachloride	ND	2.00	µg/L							
Chlorobenzene	ND	2.00	µg/L							
Chlorodibromomethane	ND	2.00	µg/L							
Chloroethane	ND	2.00	µg/L							
Chloroform	ND	2.00	µg/L							
Chloromethane	ND	2.00	µg/L							
1,2-Dichlorobenzene	ND	2.00	µg/L							
1,3-Dichlorobenzene	ND	2.00	µg/L							
1,4-Dichlorobenzene	ND	2.00	µg/L							
1,2-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethane	ND	2.00	µg/L							
1,1-Dichloroethylene	ND	2.00	µg/L							
trans-1,2-Dichloroethylene	ND	2.00	µg/L							
1,2-Dichloropropane	ND	2.00	µg/L							
cis-1,3-Dichloropropene	ND	2.00	µg/L							
trans-1,3-Dichloropropene	ND	2.00	µg/L							
Ethylbenzene	ND	2.00	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	2.00	µg/L							
Methylene Chloride	ND	5.00	µg/L							
1,1,2,2-Tetrachloroethane	ND	2.00	µg/L							
Tetrachloroethylene	ND	2.00	µg/L							
Toluene	ND	1.00	µg/L							
1,1,1-Trichloroethane	ND	2.00	µg/L							
1,1,2-Trichloroethane	ND	2.00	µg/L							
Trichloroethylene	ND	2.00	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.00	µg/L							
Vinyl Chloride	ND	2.00	µg/L							
m+p Xylene	ND	2.00	µg/L							
o-Xylene	ND	1.00	µg/L							
Surrogate: 1,2-Dichloroethane-d4	23.2		µg/L	25.0		92.9	70-130			
Surrogate: Toluene-d8	23.9		µg/L	25.0		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	24.6		µg/L	25.0		98.3	70-130			

LCS (B302730-BS1)

Prepared & Analyzed: 03/08/22

Benzene	20	1.00	µg/L	20.0		100	65-135			
Bromodichloromethane	22	2.00	µg/L	20.0		109	65-135			
Bromoform	20	2.00	µg/L	20.0		101	70-130			
Bromomethane	27	2.00	µg/L	20.0		133	15-185			
Carbon Tetrachloride	23	2.00	µg/L	20.0		114	70-130			
Chlorobenzene	21	2.00	µg/L	20.0		103	65-135			
Chlorodibromomethane	22	2.00	µg/L	20.0		108	70-135			
Chloroethane	22	2.00	µg/L	20.0		110	40-160			
Chloroform	21	2.00	µg/L	20.0		107	70-135			
Chloromethane	8.1	2.00	µg/L	20.0		40.3	20-205			
1,2-Dichlorobenzene	19	2.00	µg/L	20.0		96.6	65-135			
1,3-Dichlorobenzene	20	2.00	µg/L	20.0		101	70-130			
1,4-Dichlorobenzene	20	2.00	µg/L	20.0		98.8	65-135			
1,2-Dichloroethane	23	2.00	µg/L	20.0		113	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B302730 - SW-846 5030B
LCS (B302730-BS1)

Prepared & Analyzed: 03/08/22

1,1-Dichloroethane	22	2.00	µg/L	20.0		108	70-130			
1,1-Dichloroethylene	25	2.00	µg/L	20.0		127	50-150			
trans-1,2-Dichloroethylene	22	2.00	µg/L	20.0		111	70-130			
1,2-Dichloropropane	21	2.00	µg/L	20.0		105	35-165			
cis-1,3-Dichloropropene	20	2.00	µg/L	20.0		100	25-175			
trans-1,3-Dichloropropene	21	2.00	µg/L	20.0		104	50-150			
Ethylbenzene	20	2.00	µg/L	20.0		102	60-140			
Methyl tert-Butyl Ether (MTBE)	20	2.00	µg/L	20.0		99.8	70-130			
Methylene Chloride	21	5.00	µg/L	20.0		104	60-140			
1,1,2,2-Tetrachloroethane	19	2.00	µg/L	20.0		92.9	60-140			
Tetrachloroethylene	24	2.00	µg/L	20.0		118	70-130			
Toluene	21	1.00	µg/L	20.0		105	70-130			
1,1,1-Trichloroethane	22	2.00	µg/L	20.0		111	70-130			
1,1,2-Trichloroethane	21	2.00	µg/L	20.0		106	70-130			
Trichloroethylene	22	2.00	µg/L	20.0		111	65-135			
Trichlorofluoromethane (Freon 11)	21	2.00	µg/L	20.0		107	50-150			
Vinyl Chloride	19	2.00	µg/L	20.0		92.6	5-195			
m+p Xylene	43	2.00	µg/L	40.0		107	70-130			
o-Xylene	20	1.00	µg/L	20.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	22.3		µg/L	25.0		89.3	70-130			
Surrogate: Toluene-d8	23.9		µg/L	25.0		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	24.9		µg/L	25.0		99.6	70-130			

LCS Dup (B302730-BS1)

Prepared & Analyzed: 03/08/22

Benzene	20	1.00	µg/L	20.0		102	65-135	1.88	20	
Bromodichloromethane	22	2.00	µg/L	20.0		112	65-135	2.62	20	
Bromoform	21	2.00	µg/L	20.0		106	70-130	4.64	20	
Bromomethane	30	2.00	µg/L	20.0		152	15-185	13.0	20	
Carbon Tetrachloride	23	2.00	µg/L	20.0		115	70-130	0.613	20	
Chlorobenzene	21	2.00	µg/L	20.0		106	65-135	3.20	20	
Chlorodibromomethane	22	2.00	µg/L	20.0		112	70-135	3.37	20	
Chloroethane	21	2.00	µg/L	20.0		106	40-160	3.38	20	
Chloroform	22	2.00	µg/L	20.0		108	70-135	0.418	20	
Chloromethane	8.1	2.00	µg/L	20.0		40.4	20-205	0.124	20	
1,2-Dichlorobenzene	20	2.00	µg/L	20.0		98.5	65-135	2.00	20	
1,3-Dichlorobenzene	21	2.00	µg/L	20.0		103	70-130	2.31	20	
1,4-Dichlorobenzene	20	2.00	µg/L	20.0		101	65-135	2.50	20	
1,2-Dichloroethane	23	2.00	µg/L	20.0		115	70-130	1.67	20	
1,1-Dichloroethane	22	2.00	µg/L	20.0		109	70-130	1.01	20	
1,1-Dichloroethylene	25	2.00	µg/L	20.0		127	50-150	0.118	20	
trans-1,2-Dichloroethylene	23	2.00	µg/L	20.0		114	70-130	2.35	20	
1,2-Dichloropropane	22	2.00	µg/L	20.0		109	35-165	4.02	20	
cis-1,3-Dichloropropene	21	2.00	µg/L	20.0		104	25-175	3.48	20	
trans-1,3-Dichloropropene	21	2.00	µg/L	20.0		107	50-150	3.60	20	
Ethylbenzene	21	2.00	µg/L	20.0		103	60-140	1.07	20	
Methyl tert-Butyl Ether (MTBE)	20	2.00	µg/L	20.0		102	70-130	2.18	20	
Methylene Chloride	21	5.00	µg/L	20.0		105	60-140	1.10	20	
1,1,2,2-Tetrachloroethane	19	2.00	µg/L	20.0		96.5	60-140	3.80	20	
Tetrachloroethylene	23	2.00	µg/L	20.0		117	70-130	0.640	20	
Toluene	21	1.00	µg/L	20.0		107	70-130	1.46	20	
1,1,1-Trichloroethane	22	2.00	µg/L	20.0		110	70-130	0.909	20	
1,1,2-Trichloroethane	22	2.00	µg/L	20.0		110	70-130	3.11	20	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B302730 - SW-846 5030B

LCS Dup (B302730-BSD1)

Prepared & Analyzed: 03/08/22

Trichloroethylene	23	2.00	µg/L	20.0		114	65-135	2.88	20	
Trichlorofluoromethane (Freon 11)	22	2.00	µg/L	20.0		108	50-150	1.03	20	
Vinyl Chloride	18	2.00	µg/L	20.0		90.6	5-195	2.29	20	
m+p Xylene	42	2.00	µg/L	40.0		104	70-130	2.20	25	
o-Xylene	21	1.00	µg/L	20.0		103	70-130	1.51	20	
Surrogate: 1,2-Dichloroethane-d4	22.2		µg/L	25.0		88.9	70-130			
Surrogate: Toluene-d8	23.9		µg/L	25.0		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	24.5		µg/L	25.0		98.0	70-130			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B302677 - SM21-23 4500 H B

LCS (B302677-BS1)

Prepared & Analyzed: 03/07/22

pH	5.97		pH Units	6.00		99.6	90-110			
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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Dissolved) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B302697 - SM21-23 2540C
Blank (B302697-BLK1)

Prepared & Analyzed: 03/08/22

Total Dissolved Solids ND 10 mg/L

LCS (B302697-BS1)

Prepared & Analyzed: 03/08/22

Total Dissolved Solids 200 mg/L 293 67.2 64.9-119

Duplicate (B302697-DUP1)
Source: 22C0450-01

Prepared & Analyzed: 03/08/22

Total Dissolved Solids 620 10 mg/L 600 2.29 5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
H-05	Holding time was exceeded. pH analysis should be performed immediately at time of sampling. Nominal 15 minute holding time was exceeded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

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CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
624.1 in Water	
Benzene	CT,NY,MA,NH,RI,NC,ME,VA
Bromodichloromethane	CT,NY,MA,NH,RI,NC,ME,VA
Bromoform	CT,NY,MA,NH,RI,NC,ME,VA
Bromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Carbon Tetrachloride	CT,NY,MA,NH,RI,NC,ME,VA
Chlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
Chlorodibromomethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Chloroform	CT,NY,MA,NH,RI,NC,ME,VA
Chloromethane	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,3-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,4-Dichlorobenzene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,2-Dichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
1,2-Dichloropropane	CT,NY,MA,NH,RI,NC,ME,VA
cis-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
trans-1,3-Dichloropropene	CT,NY,MA,NH,RI,NC,ME,VA
Ethylbenzene	CT,NY,MA,NH,RI,NC,ME,VA
Methyl tert-Butyl Ether (MTBE)	NY,MA,NH,NC
Methylene Chloride	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2,2-Tetrachloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Tetrachloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Toluene	CT,NY,MA,NH,RI,NC,ME,VA
1,1,1-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
1,1,2-Trichloroethane	CT,NY,MA,NH,RI,NC,ME,VA
Trichloroethylene	CT,NY,MA,NH,RI,NC,ME,VA
Trichlorofluoromethane (Freon 11)	CT,NY,MA,NH,RI,NC,ME,VA
Vinyl Chloride	CT,NY,MA,NH,RI,NC,ME,VA
m+p Xylene	CT,NY,MA,NH,RI,NC
o-Xylene	CT,NY,MA,NH,RI,NC
SM21-23 2540C in Water	
Total Dissolved Solids	CT,MA,NH,NY,RI,NC,ME,VA
SM21-23 4500 H B in Water	
pH	CT,MA,RI

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Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2024
MA	Massachusetts DEP	M-MA100	06/30/2022
CT	Connecticut Department of Public Health	PH-0165	12/31/2022
NY	New York State Department of Health	10899 NELAP	04/1/2022
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2023
RI	Rhode Island Department of Health	LAO00373	12/30/2022
NC	North Carolina Div. of Water Quality	652	12/31/2022
NJ	New Jersey DEP	MA007 NELAP	06/30/2022
FL	Florida Department of Health	E871027 NELAP	06/30/2022
VT	Vermont Department of Health Lead Laboratory	LL720741	07/30/2022
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2022
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2022
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2022
NC-DW	North Carolina Department of Health	25703	07/31/2022
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2022
MI	Dept. of Env, Great Lakes, and Energy	9100	09/6/2022

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples _____



con-test[®]
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False

Statement will be brought to the attention of the Client - State True or False

Client La Bella

Received By M

Date 3/7/22

Time 1644

How were the samples received? In Cooler T No Cooler On Ice T No Ice
Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 2.0
By Blank # Actual Temp -

Was Custody Seal Intact? NA Were Samples Tampered with? NA

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F T

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all Client T Analysis T Sampler Name T

pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?

Are there Rushes? F Who was notified?

Are there Short Holds? T Who was notified? CLASSIC

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? F

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? F

Do all samples have the proper pH? NA Acid Base

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	<u>4</u>	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	<u>2</u>	4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic	<u>2</u>	Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:

ATTACHMENTS

ATTACHMENT 1
ENGINEERING CONTROLS – STANDBY CONSULTANT/CONTRACTOR
CERTIFICATION FORM



Enclosure 1
Engineering Controls - Standby Consultant/Contractor Certification Form



Site Details

Box 1

Site No. **344035**

Site Name **COSCO**

Site Address: 15 West Street Zip Code: 10977

City/Town: Spring Valley

County: Rockland

Site Acreage: 0.3

Reporting Period: April 04, 2021 to April 04, 2022

YES NO

1. Is the information above correct?

☒

☐

If NO, include handwritten above or on a separate sheet.

2. To your knowledge has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

☐

☒

3. To your knowledge has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

☐

☒

4. To your knowledge have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

☐

☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. To your knowledge is the site currently undergoing development?

☐

☒

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
Commercial and Industrial

☒

☐

7. Are all ICs/ECs in place and functioning as designed?

☒

☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.

Signature of Standby Consultant/Contractor

Date

SITE NO. 344035

Box 3

Description of Institutional Controls

Parcel

Owner

Institutional Control

57.46-1-1

WEST CENTRAL ASSOCIATES L P

Monitoring Plan
O&M Plan
1999 Record of Decision

Box 4

Description of Engineering Controls

Parcel

Engineering Control

57.46-1-1

Groundwater Treatment System
Vapor Mitigation
Cover System

A cover system consisting of asphalt to prevent human exposure to remaining contaminated soil/fill remaining at the site; A SSDS at an off-site structure to prevent potential exposure to soil vapor intrusion; Air stripper groundwater extraction and treatment system

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification, including data and material prepared by previous contractors for the current certifying period, if any;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒

☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

(a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) nothing has occurred that would constitute a failure to comply with the Site Management Plan, or equivalent if no Site Management Plan exists.

YES NO

☒

☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and contact the DEC PM regarding the development of a Corrective Measures Work Plan to address these issues.

Signature of Standby Consultant/Contractor

Date

IC/EC CERTIFICATIONS

Qualified Environmental Professional Signature

I certify that all information in Boxes 2 through 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Douglas M. Crawford at
print name

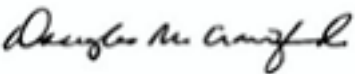
Ramboll
94 New Karner Road, Suite 106
Albany, New York 12203,
(print business address)

am certifying as a Qualified Environmental Professional.

Signature of Qualified Environmental Professional

Stamp
(Required for PE)

Date



05/06/2022