



August 18, 2020

Mr. Steven Martin Wisconsin Department of Natural Resources South Central Region 3911 Fish Hatchery Road Fitchburg, WI 53711

Subject: Operations, Monitoring, and Maintenance Semi-annual Report – January 1, 2020 – June 30,

2020, Groundwater and Soil Vapor Extraction Treatment Systems & Rain Garden

Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin Facility ID #113125320, WDNR BRRTS #02-13-558625 and #02-13-562649

Dear Mr. Martin:

TRC, on behalf of Madison-Kipp Corp. (MKC), is reporting on the operation, monitoring, and maintenance (OM&M) of the groundwater and soil vapor extraction treatment systems at MKC's facility at 201 Waubesa Street, Madison, Wisconsin (Site). Wisconsin Department of Natural Resources (WDNR) Form 4400-194 was completed per the requirements of NR 724.13(3). In addition, an update on work completed for the City of Madison's Rain Garden is included in this report. A comprehensive summary and discussion of the site will be included in the 2020 Annual Report which will be submitted in early 2021.

Groundwater Extraction and Treatment System OM&M

MKC is operating a Groundwater Extraction and Treatment System (GETS) for extraction and treatment of tetrachloroethene (PCE)-impacted groundwater.

GETS System Operation

Approximately 9,908,962 gallons of groundwater were treated between January 1, 2020 and June 30, 2020. A GETS operation summary log for this reporting period is included in Table 1. Approximately 116 pounds of VOCs were removed between January 1 and June 30, 2020. A trend plot depicting the cumulative VOCs removed over time since the start-up of the GETS system is included in Trend Plot A.1 of Attachment 1. In addition, the trend plot showing PCE concentration verses time for the groundwater extraction well (GWE-1) is include in Trend Plot A.2 of Attachment 1. Additional system operation information is noted in the attached Remediation Site Operation, Maintenance, Monitoring, and Optimization Report Form 4400-194 in Attachment 2.

The GETS system was shut down for several days in January 2020 after the accidental introduction of a small amount of Renoclean SGC 62 (cleaning agent). The introduction and subsequent steps were documented in a letter to WDNR on January 8, 2020. After the GETS system components were flushed to remove the cleaning agent, the GETS was restarted.

GETS Monthly Discharge Monitoring Reports

MKC/TRC electronically submits monthly (long report) and quarterly (short report) Discharge Monitoring Reports (DMRs) through the WDNR Web Access Management System (WAMS) which is a requirement for the system operation and discharge permit (Wisconsin Pollution Discharge Elimination System Permit number WI-0046566-6). For performance monitoring and permit compliance, TRC

collects samples of the extracted groundwater (GETS influent) and treated groundwater (GETS effluent) on a quarterly basis, and after scheduled cleaning events. Table 2 provides the influent and effluent laboratory analytical results for this reporting period.

The DMR long reports are submitted monthly and include daily flow and permanganate neutralization verification. Total suspended solids are analyzed for the influent and effluent if system cleaning is completed during that month. The DMR short reports are submitted on a quarterly basis following influent and effluent system monitoring for volatile organic compounds (VOCs) and select polycyclic aromatic hydrocarbons (PAHs). The DMRs for January through June 2020 were submitted electronically and a copy of the last submittal from the June 2020 monitoring event is included in Attachment 3. Laboratory analytical reports from the January 2020 restart and quarterly sampling events are included in Attachment 4.

GETS Monthly Vapor Sampling

The GETS produces gases which are treated with granular activated carbon (GAC) for removal of vapor-phase VOCs. The GAC influent and GAC effluent gas are sampled on a semi-annual basis for performance and compliance monitoring, and were sampled June 9, 2020 during this reporting period. An analytical summary table with influent and effluent results are included in Table 3 for this and the 2019 reporting period (for comparison) and the 2020 laboratory analytical reports are included in Attachment 4. An emission rate was calculated based on the effluent analytical results and system flow rate; and results were compared to NR 445 and NR 406 effluent emissions standards. No regulatory standards for effluent emissions from the system were exceeded.

The influent gas (pre-carbon treatment on June 9, 2020) was analyzed for voluntary comparison to regulatory standards, and the influent gas concentrations were also below the established NR 445 and NR 406 effluent emissions standards.

Soil Vapor Extraction System OM&M

The SVE system has been shut down since October 2018. Soil gas has been monitored during the SVE shut down, and the final proposed round of soil gas monitoring was completed in July and October 2019 and further discussed in the 2019 Operation, Monitoring, and Maintenance Annual Report (TRC, 2020).

Additional system operation information is noted in the attached Remediation Site Operation, Maintenance, Monitoring, and Optimization Report Form 4400-194 in Attachment 2.

Site Groundwater Monitoring

Water level gauging and groundwater sampling at the Site for the first half of the 2020 calendar year was not conducted due to the shut-down of the MKC facility during the Wisconsin Department of Health Services Safer at Home order due to the spread of the SARS-CoV-2 virus, which causes COVID-19. A subset of groundwater monitoring, selecting wells for PCB monitoring, was completed in July 2020 and the more extensive semi-annual site monitoring event is planned for October 2020. The July and



October groundwater monitoring events will be completed as outlined in Table 4 and documented in the annual report for the site which will cover activities from July to December 2020.

Monitoring Well Network and Sampling Program

The Site contains 39 monitoring wells, 4 multi-port wells, and one extraction well (GWE-1). The wells are installed in unconsolidated units and/or bedrock and their locations are shown on Figure 2. The Site's near-surface geology consists of two unconsolidated units consisting of fill material and glacially-derived deposits, which overlie three bedrock formations (Lone Rock, Wonewoc, and Eau Claire).

Groundwater Flow Conditions

Water levels at 40 Site monitoring wells and 20 multi-port well intervals will be gauged in October 2020. The most recently available data, including a water table map and potentiometric surface maps for the site, were included in the 2019 Operation, Monitoring, and Maintenance Annual Report (TRC, 2020). Updated water table and potentiometric surface maps will be included in the 2020 Operation, Monitoring, and Maintenance Annual Report.

Groundwater Sampling Results

Site groundwater monitoring results for the site are discussed in the 2019 Operation, Monitoring, and Maintenance Annual Report (TRC, 2020) and reports referenced within that report. The 2020 annual report will include further discussion of the site groundwater monitoring, including the July and October sampling results.

Rain Garden Semi-annual Sampling

TRC completed the first semi-annual round of sediment sampling as recommended in the December 4, 2018, Rain Garden – 2018 Sediment Monitoring (BRRTS #02-13-562649) letter. A sediment sample was collected from manhole MH-1A and from the Outfall point into the rain garden on June 9, 2020 and analyzed for PCBs using EPA Method 8082. In accordance with Section D Part 2 of the April 2, 2019, U.S. Environmental Protection Agency TSCA PCB Coordinated Approval, one water sample was collected from the outfall area on June 10, 2020 and analyzed for PCBs. Figure 4 shows the location of the sample points, Table 5 includes a summary of the sediment samples collected to date, and Attachment 5 includes the laboratory analytical report for the sediment and water samples collected.

- Based on the semi-annual sediment sample results, the material within MH-1A contains low concentrations of PCBs, below the NR 720 industrial direct contact residual contaminant levels (RCLs). The sediment observed within MH-1A was primarily coarse grain material with some fines and organics.
- Sediment accumulation within the Rain Garden at the Outfall, generally consisted of fine grain material with some organics. Results from this semi-annual monitoring show that sediment containing PCBs continues to discharge from the Outfall, but at concentrations below the NR 720 industrial direct contact RCLs.
- No PCB aroclors analyzed were detected above the laboratory method detection limits for the water sample collected from the Outfall point.

TRC

Conclusions/Recommendations

The OM&M activities for the GETS were completed as required at the Site during this reporting period. The system operated continuously throughout this reporting period, with the exception of the shut-down due to the accidental introduction of the cleaning agent and for routine maintenance and repairs.

No site groundwater monitoring was completed during this reporting period due to the Wisconsin Department of Health Services Safer at Home order. A small set of site wells was monitored in July 2020 and a more extensive round of groundwater monitoring is planned for October 2020. Water table, potentiometric surface, and isoconcentration maps and a discussion on groundwater quality will be included in the 2020 Annual Report.

The last round of soil gas monitoring was completed in July/October 2019 and results were discussed in the 2019 Operation, Monitoring, and Maintenance Annual Report (TRC, 2020).TRC recommends conducting a meeting between the WDNR, MKC, and TRC to discuss the future operations of the SVE system.

Based on the results of the January through June 2020 OM&M, the following work is planned for the remainder of the 2020 calendar year:

- GETS operation;
- SVE evaluation meeting;
- GETS compliance monitoring;
- Groundwater monitoring (July & October 2020);
- Annual report preparation; and
- Second semi-annual sampling event for the rain garden.

If you have any questions or comments related to this report, please contact Andrew Stehn (608-826-3665) or Katherine Vater (608-826-3663) of TRC.

Sincerely,

TRC

Andrew Stehn, P.E. Senior Project Engineer

cc: Mark Sheppard – MKC (electronic)

Regional PCB Coordinator – U.S. EPA (electronic)

M. Steh

Katherine Vater, P.E. Project Manger



References

TRC Environmental Corporation. 2019. Operations, Monitoring, and Maintenance Annual Report – January 1, 2019 – December 31, 2019, Madison-Kipp Corporation Groundwater and Soil Vapor Extraction Treatment Systems. April 7, 2020.

TRC Environmental Corporation. 2020. Notification of Renoclean SGC 62 Cleaning Agent Introduced to Groundwater Extraction and Treatment System. January 8, 2020.

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Table 1: Summary of Groundwater Extraction System Operation and Mass Removal - January - June 2020

Madison Kipp Corporation

201 Waubesa Street

Madison, Wisconsin

| | Groundwater Discharged | Cumulative Groundwater | Average Discharge | Average Discharge | Influent Sample Results ⁽³⁾ | Effluent Sample Results ⁽³⁾ | Cumulative VOCs | |
|-----------|---------------------------|---------------------------|------------------------------|----------------------------------|--|--|----------------------------|--|
| | This Period | Discharged | Flow Rate ^{(2),(5)} | Flow Rate ^{(2),(5),(6)} | VOCs | VOCs | Removed ^{(1),(4)} | |
| Date | (gal) | (gal) ⁽¹⁾ | (gpd) | (gpm) | (µg/L) | (μg/L) | (pounds) | Comments |
| 1/7/2020 | 449,645 | 84,026,929 | 57,549 | 40 | NS | NS | 1250 | |
| 1/14/2020 | 10,715 | 84,037,644 | 1,468 | 1 | NS | NS | 1250 | System was shut down for cleaning after foreign substance introduced. |
| 1/16/2020 | 109,784 | 84,147,428 | 57,550 | 40 | NS | NS | 1250 | |
| 1/23/2020 | 407,052 | 84,554,480 | 57,568 | 40 | NS | NS | 1260 | |
| 1/24/2020 | 47,486 | 84,601,966 | 57,462 | 40 | NS | NS | 1260 | |
| 1/27/2020 | 173,912 | 84,775,878 | 57,597 | 40 | NS | NS | 1260 | |
| 1/28/2020 | 61,635 | 84,837,513 | 57,409 | 40 | NS | NS | 1260 | |
| 2/4/2020 | 393,238 | 85,230,751 | 57,576 | 40 | NS | NS | 1270 | |
| 2/6/2020 | 115,516 | 85,346,267 | 57,459 | 40 | NS | NS | 1270 | |
| 2/14/2020 | 463,982 | 85,810,249 | 57,563 | 40 | NS | NS | 1270 | |
| 2/20/2020 | 351,208 | 86,161,457 | 57,575 | 40 | NS | NS | 1280 | |
| 2/21/2020 | 63,570 | 86,225,027 | 57,791 | 40 | NS | NS | 1280 | |
| 2/24/2020 | 165,970 | 86,390,997 | 57,548 | 40 | NS | NS | 1280 | |
| 2/26/2020 | 115,444 | 86,506,441 | 57,383 | 40 | NS | NS | 1280 | |
| 2/27/2020 | 55,069 | 86,561,510 | 57,883 | 40 | NS | NS | 1280 | |
| 3/2/2020 | 174,427 | 86,735,937 | 44,550 | 31 | 1503 | 15.6 | | The GETS was shut down for a period of time due to a power outage. |
| 3/4/2020 | 118,771 | 86,854,708 | 57,393 | 40 | NS | NS | 1280 | |
| 3/10/2020 | 121,241 | 86,975,949 | 20,434 | 14 | NS | NS | 1290 | The GETS was shut down for a period of time between 3/6/2020 and 3/10/2020 due to scheduled electrical work near the facility. |
| 3/20/2020 | 576,515 | 87,552,464 | 57,544 | 40 | NS | NS | 1290 | |
| 3/25/2020 | 289,921 | 87,842,385 | 57,537 | 40 | NS | NS | 1300 | |
| 4/2/2020 | 455,537 | 88,297,922 | 57,536 | 40 | NS | NS | 1300 | |
| 4/6/2020 | | | | - | NS | NS | 1300 | Meter reading not recorded during site visit. |
| 4/14/2020 | 691,389 | 88,989,311 | 57,536 | 40 | NS | NS | 1310 | |
| 4/24/2020 | 545,815 | 89,535,126 | 54,578 | 38 | NS | NS | | The GETS was shut down for a period of time on 4/21/20 due to a low pressure alarm for the peroxide metering pump system. |
| 5/11/2020 | 976,111 | 90,511,237 | 57,526 | 40 | NS | NS | 1330 | |
| 5/18/2020 | 409,661 | 90,920,898 | 57,519 | 40 | NS | NS | 1340 | |
| 5/27/2020 | 523,118 | 91,444,016 | 57,512 | 40 | NS | NS | 1340 | |
| 6/5/2020 | 407,217 | 91,851,233 | 46,732 | 32 | NS | NS | | The GETS was shut down for a period of time between 6/2/20 and 6/4/20 due to a power outage and replacement of a high level sensor in the air stripper unit. |
| 6/9/2020 | 234,671 | 92,085,904 | 57,500 | 40 | NS | NS | 1350 | GETS shut down for routine air stripper cleaning. |
| 6/9/2020 | 2,910 | 92,088,814 | 11,387 | 8 | 1412 | 12.2 | | GETS restarted following air stripper cleaning. |
| 6/17/2020 | 443,105 | 92,531,919 | 57,505 | 40 | NS | NS | 1350 | |
| 6/24/2020 | 402,617 | 92,934,536 | 57,494 | 40 | NS | NS | 1360 | |

Notes:

VOCs = Volatile Organic Compounds

GETS - Groundwater Extraction and Treatment System

Footnotes:

- (1) The total gallons treated and VOCs removed by the GETS prior to 2020 are included in the 2019 Annual Report and reports referenced therein (TRC, April, 2020).
- (2) The average discharge flow rate calculations noted take into account system down time and are based on volume of groundwater extracted and time elapsed between monitoring events.
- (3) Analytical laboratory reports for sampling completed between January and June 2020 are included in Attachment 4 of the January to June 2020 Semi-annual Report (TRC, August 2020).
- (4) Compliance sampling starting in 2019 is completed on a quarterly basis, prior to 2019 sampling was completed on a monthly basis. For weeks where samples were not collected the previously obtained sampling data was used for cumulative VOCs calculations.

Updated By: B. Wachholz 3/17/2020

Checked/Updated By: L. Hoerning 6/23/2020

Checked By: A. Stehn 7/28/2020

^{-- =} Field reading recorded is not consistent with previous collected data and not used for calculations or system issues did not allow a reading to be obtained.

⁽⁵⁾ The extraction and transfer pumps for the GETS contain variable speed frequency drives that fluctuate based on liquid levels in the equalization and mixing tank along with the air stripper liquid level. At times the flow will fluctuate and readings collected over a few days time may reflect bias results for the overall system operation.

⁽⁶⁾ The soil vapor extraction system was temporarily shutdown on October 25, 2018 for evaluation purposes. Based on the shutdown, the GETS operation flow rate was adjusted to 40 GPM.

Table 2: GETS WPDES Compliance Sample Results - January - June 2020 Madison-Kipp Corporation

201 Waubesa Street, Madison, Wisconsin

| | Permit | | Location Sample Date | | | | | | | |
|---------------------------------------|-----------|----------|----------------------|----------|----------|----------|--|--|--|--|
| | Discharge | | Influent | Effluent | Influent | Effluent | | | | |
| Parameter ⁽³⁾ | Limits | Unit | 3/2/2020 | 3/2/2020 | 6/9/2020 | 6/9/2020 | | | | |
| /liscellaneous | <u> </u> | | | | | | | | | |
| otal Suspended Solids | 40 | mg/L | | | 1.0 J | <0.95 | | | | |
| /OCs | 1 | <u>J</u> | | | | | | | | |
| 1,1,1-Trichloroethane | 50 | μg/L | <4.9 | <0.24 | <4.9 | <0.24 | | | | |
| .1.2.2-Tetrachloroethane | 50 | µg/L | <5.5 | <0.28 | <5.5 | <0.28 | | | | |
| ,1,2-Trichloroethane | 50 | μg/L | <11.0 | <0.55 | <11.0 | <0.55 | | | | |
| ,1-Dichloroethene | 50 | µg/L | <4.9 | <0.24 | <4.9 | <0.24 | | | | |
| ,2-Dichloroethane | 180 | μg/L | <5.6 | <0.28 | <5.6 | <0.28 | | | | |
| Benzene | 50 | ua/L | <4.9 | <0.25 | <4.9 | <0.25 | | | | |
| romodichloromethane | 120 | μg/L | <7.3 | <0.36 | <7.3 | <0.36 | | | | |
| Bromoform | 120 | μg/L | <79.4 | <4.0 | <79.4 | <4.0 | | | | |
| Gromomethane | NE | μg/L | <19.4 | <0.97 | <19.4 | <0.97 | | | | |
| Carbon Tetrachloride | 150 | μg/L | <3.3 | <0.17 | <21.5 | <1.1 | | | | |
| is-1,2-Dichloroethene | NE | μg/L | | | | | | | | |
| Chloromethane | NE | μg/L | <43.8 | <2.2 | <43.8 | <2.2 | | | | |
| thylbenzene | NE | μg/L | <4.4 | <0.22 | <6.4 | <0.32 | | | | |
| etrachloroethene | 50 | μg/L | 1370 | 12.5 | 1280 | 10.2 | | | | |
| oluene | NE | μg/L | <3.4 | <0.17 | <5.4 | <0.27 | | | | |
| otal Xylenes | NE | μg/L | <30.0 | <1.5 | <30.0 | <1.5 | | | | |
| rans-1,2-Dichloroethene | NE | μg/L | | | | | | | | |
| richloroethene | 50 | μg/L | 133 | 3.1 | 132 | 2.0 | | | | |
| /inyl Chloride | 10 | μg/L | <3.5 | <0.17 | <3.5 | <0.17 | | | | |
| otal BTEX ⁽¹⁾ | 750 | μg/L | <30.0 | <1.5 | <30.0 | <1.5 | | | | |
| otal VOCs (includes BTEX) | NE | μg/L | 1503 | 15.6 | 1412 | 12.2 | | | | |
| PAHs | 1 | F-3' = | | | | | | | | |
| Benzo(a)anthracene | NE | μg/L | <0.0069 | <0.0071 | <0.0073 | <0.0069 | | | | |
| Senzo(a)pyrene | 0.1 | μg/L | <0.0097 | <0.0099 | <0.010 | <0.0097 | | | | |
| Benzo(b)fluoranthene | NE | µg/L | <0.0053 | <0.0054 | <0.0055 | <0.0053 | | | | |
| Benzo(g,h,i)perylene | NE | μg/L | <0.0062 | <0.0064 | <0.0065 | <0.0062 | | | | |
| Senzo(k)fluoranthene | NE NE | μg/L | <0.0069 | <0.0071 | <0.0073 | <0.0069 | | | | |
| Chrysene | NE | μg/L | <0.012 | <0.012 | <0.013 | <0.012 | | | | |
| Dibenzo(a,h)anthracene | NE | μg/L | <0.0092 | <0.0095 | <0.0096 | <0.0092 | | | | |
| luoranthene | NE | μg/L | <0.0098 | <0.010 | <0.010 | <0.0098 | | | | |
| ndeno(1,2,3-cd)pyrene | NE | μg/L | <0.016 | <0.017 | <0.017 | <0.016 | | | | |
| laphthalene | 70 | μg/L | <0.017 | <0.017 | <0.018 | <0.017 | | | | |
| Phenanthrene | NE | μg/L | <0.013 | <0.013 | <0.013 | <0.013 | | | | |
| Pyrene | NE | μg/L | <0.0070 | <0.0072 | <0.0074 | <0.0070 | | | | |
| PAHs Group of 10 Total ⁽²⁾ | 0.1 | μg/L | <0.016 | <0.017 | <0.017 | <0.016 | | | | |

Notes:

< = Less than

μg/L = Micrograms per liter

mg/L = Milligrams per liter

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.

NE = Not Established

-- = Not analyzed

PAHs = Polynuclear Aromatic Hydrocarbons

VOCs = Volatile Organic Compounds

TSS = Total Suspended Solids

Footnotes:

(1) Total BTEX is the sum of the benzene, toluene, ethylbenzene and xylene concentrations. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the BTEX compounds was noted.

PAH group of 10 (Polynuclear Aromatic Hydrocarbons) include the sum of the following individual compounds: benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the PAH group compounds was noted.

(3) Following WDNR approval, compliance monitoring parameters and frequency were adjusted in 2019. VOCs and PAHs are monitored on a quarterly basis and TSS is monitored on a periodic basis based on system cleaning.

Updated by: Andrew Stehn 06/23/2020 Checked by: L. Auner 7/28/2020

Table 3: GETS Gas Analytical Data - June 2019 - June 2020 Madison-Kipp Corporation 201 Waubesa Street Madison, Wisconsin

| Sample Date | 6/7/2 | 2019 | 12/9 | /2019 | 6/9/2020 | | |
|------------------------|----------|----------|----------|----------|-------------------------|----------|--|
| Sample Location | Influent | Effluent | Influent | Effluent | Influent ⁽¹⁾ | Effluent | |
| Vinyl Chloride | 16 | 9.7 | 10 | 11 | <9.6 | 6.3 | |
| 1,1-Dichloroethene | <6.6 | <1.2 | <2.2 | <2.1 | <9.6 | <1.2 | |
| cis-1,2-Dichloroethene | 1500 | 420 | 890 | 530 | 830 | 240 | |
| Benzene | <6.6 | <1.2 | <2.2 | <2.1 | <9.6 | <1.2 | |
| Trichloroethene | 660 | 75 | 350 | 430 | 560 | 32 | |
| Toluene | <6.6 | 1.4 | 2.6 | <2.1 | 18 | <1.2 | |
| Tetrachloroethene | 1700 | 200 | 810 | 230 | 2800 | 200 | |
| Ethyl Benzene | <6.6 | <1.2 | <2.2 | <2.1 | <9.6 | <1.2 | |
| m,p-Xylene | <6.6 | <1.2 | 2.3 | <2.1 | <9.6 | <1.2 | |
| o-Xylene | <6.6 | <1.2 | <2.2 | <2.1 | <9.6 | <1.2 | |
| 1,3,5-Trimethylbenzene | <6.6 | <1.2 | <2.2 | <2.1 | <9.6 | <1.2 | |
| 1,2,4-Trimethylbenzene | <6.6 | <1.2 | <2.2 | <2.1 | <9.6 | <1.2 | |

Notes:

Updated by: L. Auner, 6/29/2020 Checked by: L. Hoerning 7/1/2020

All concentrations in this table are reported in ppbv unless otherwise noted.

All samples were analyzed using Method TO-15 and the analytes shown in the table are from the VOC analyte list. Only analytes that were detected in at

least one sample are shown in the table. A complete list of constituents analyzed are included in the laboratory analytical reports.

< = Constituent not detected above noted laboratory method detection limit.

The SVE system was shut down in October 2018 for evaluation purposes. Results summarized between November 2018 and December 2019 are representative of the GETS gas concentrations only.

Bold = Constituent detected above laboratory detection limit.

SVE = Soil vapor extraction

GETS = Groundwater extraction and treatment system

ppbv = parts per billon by volume

VOCs = Volatile Organic Compounds

Footnotes:

⁽¹⁾ Chloromethane was detected in the influent sample from the June 2020 sampling event. The reported detection may be due to lab contamination and will be further assessed during future sampling events.

Table 4: Adjusted Groundwater Monitoring Plan - 2020 Madison-Kipp Corporation 201 Waubesa Street Madison, Wisconsin

| | | Screened | | July | October | October | |
|--------------|---------------------|----------|---------|------------|---------------|---------------|-------------|
| Well/ | | Interval | October | PCB | VOC | PCB | |
| Point ID | Bedrock Unit | (ft bgs) | Gauging | Sampling | Sampling | Sampling | Pump Type |
| GWE-1* | Lone Rock/ Wonewoc | 55-175 | X | Cumping | Х | Camping | NA |
| MW-1 | Unconsolidated | 14-24 | X | | X | | Peristaltic |
| MW-2S | Unconsolidated | 19-29 | X | | | | NA |
| MW-2D | Upper Lone Rock | 39-44 | X | | х | | Peristaltic |
| MW-3S | Unconsolidated | 19-29 | X | | X | | Peristaltic |
| MW-3D | Upper Lone Rock | 48-53 | X | х | X | х | Peristaltic |
| MW-3D2 | Lower Lone Rock | 76-81 | X | ^ | X | | Peristaltic |
| MW-3D3 | Lower Wonewoc | 214-224 | X | | X | | GeoSub |
| MW-4S | Unconsolidated/ | 35-50 | X | Х | ^ | Х | NA |
| 10100 | Upper Lone Rock | 00 00 | ^ | ^ | | ^ | 100 |
| MW-4D | Upper Lone Rock | 65-70 | Х | V | | ~ | NA |
| MW-4D2 | Lower Lone Rock | 91-96 | X | Х | Х | Х | Bladder |
| MW-5S | Upper Lone Rock | 34-44 | | | | v | Peristaltic |
| MW-5D | Lower Lone Rock | 75-80 | X X | Х | X X | Х | Peristaltic |
| MW-5D2 | Lower Wonewoc | 166-171 | | | | | Bladder |
| MW-5D3 | | 225-235 | X | | X | | GeoSub |
| MW-6S | Lower Wonewoc | | X | ., | X | | |
| 10100-05 | Unconsolidated/ | 32-42 | Х | Х | Х | Х | Bladder |
| 1444.00 | Upper Lone Rock | 00.74 | | | | | D |
| MW-6D | Upper Lone Rock | 66-71 | Х | | Х | | Bladder |
| MW-7 | Unconsolidated | 25-35 | Х | | | | NA |
| MW-8 | Unconsolidated | 24-34 | Х | | | | NA |
| MW-9D | Upper Lone Rock | 44-49 | Х | | Х | | Peristaltic |
| MW-9D2 | Lower Lone Rock | 64-69 | Х | | Х | | Peristaltic |
| MW-10S | Unconsolidated | 11-21 | Х | | | | NA |
| MW-11S | Unconsolidated | 24-34 | Х | Х | | Х | NA |
| MW-12S | Unconsolidated | 3-13 | Х | | | | NA |
| MW-17 | Lower Wonewoc | 160-170 | Х | | Х | | Bladder |
| MW-18S | Unconsolidated | 20-30 | Х | | | | NA |
| MW-21D2 | Upper/Lower Wonewoc | 110-170 | | | doned on Octo | | |
| MW-22S | Unconsolidated | 25-35 | | Well Aband | doned on Jani | uary 16, 2018 | } |
| MW-22D | Upper Lone Rock | 45-50 | | Well Aband | doned on Jan | uary 16, 2018 | |
| MW-23S | Unconsolidated | 25-35 | | Well Aband | doned on Jan | uary 16, 2018 | |
| MW-23D | Upper Lone Rock | 45-50 | | Well Aband | doned on Jan | uary 16, 2018 | |
| MW-24 | Upper Lone Rock | 30-40 | Х | Х | | Х | NA |
| MW-25D | Upper Wonewoc | 120-130 | Х | | Х | | Bladder |
| MW-25D2 | Upper Wonewoc | 160-170 | Х | | Х | | Bladder |
| MW-26S | Unconsolidated | 6.8-16.8 | Х | | | | NA |
| MW-27D | Upper Wonewoc | 130-140 | Х | | Х | | Bladder |
| MW-27D2 | Lower Wonewoc | 170-180 | Х | | Х | | Bladder |
| MW-28 | Unconsolidated | 28-38 | Х | Х | Х | Х | Peristaltic |
| MW-29S | Unconsolidated | 24-34 | Х | Х | | Х | Peristaltic |
| MW-29D | Upper Lone Rock | 45-50 | Х | Х | | х | Bladder |
| MP-13 Port 1 | Lower Wonewoc | 163-167 | Х | | Х | | Westbay |
| MP-13 Port 2 | Upper Wonewoc | 135-139 | Х | | Х | | Westbay |
| MP-13 Port 3 | Upper Wonewoc | 121-125 | Х | | Х | | Westbay |
| MP-13 Port 4 | Upper Wonewoc | 102-106 | Х | | Х | | Westbay |
| MP-13 Port 5 | Lower Lone Rock | 81-85 | Х | | Х | | Westbay |
| MP-13 Port 6 | Lower Lone Rock | 67-71 | Х | | Х | | Westbay |
| MP-13 Port 7 | Upper Lone Rock | 44-48 | Х | | Х | | Westbay |
| MP-14 Port 1 | Lower Wonewoc | 170-178 | Х | | Х | | Westbay |
| MP-14 Port 2 | Upper Wonewoc | 135-140 | Х | | Х | | Westbay |
| | | | | ı | | I | |
| MP-14 Port 3 | Upper Wonewoc | 100-105 | Х | | X | | Westbay |

Table 4: Adjusted Groundwater Monitoring Plan - 2020 Madison-Kipp Corporation 201 Waubesa Street Madison, Wisconsin

| Well/ Point ID | Bedrock Unit | Screened Interval (ft bgs) | October Gauging | July PCB Sampling | October VOC Sampling | October PCB Sampling | Pump Type |
|-------------------|-----------------|----------------------------------|--------------------|-------------------------|----------------------------|----------------------------|-----------|
| MP-15 Port 1 | Lower Wonewoc | 177-187 | Х | | Х | | Westbay |
| MP-15 Port 2 | Lower Wonewoc | 142-146 | Х | | Х | | Westbay |
| MP-15 Port 3 | Upper Wonewoc | 120-125 | Х | | Х | | Westbay |
| MP-15 Port 4 | Upper Wonewoc | 100-105 | Х | | Х | | Westbay |
| MP-15 Port 5 | Upper Wonewoc | 88-92 | Х | | Х | | Westbay |
| MP-16 Port 1 | Lower Wonewoc | 175-179 | Х | | Х | | Westbay |
| MP-16 Port 2 | Upper Wonewoc | 140-144 | Х | | Х | | Westbay |
| MP-16 Port 3 | Upper Wonewoc | 106-116 | Х | | Х | | Westbay |
| MP-16 Port 4 | Lower Lone Rock | 80-84 | Х | | | | NA |
| | Total San | nple Points: | 55 | 10 | 40 | 10 | |

Notes:

^{* =} The GWE-1 influent sample results from the month of the sampling event will be used.

Table 5: Storm Sewer System Sediment Sampling Analytical Results Summary

Madison-Kipp Corporation

201 Waubesa Street, Madison, Wisconsin

| | | NR 720 RCL | | MH-1A | | | | | | | | | OUTFALL SAMPLE | | | | | | | | | | |
|-------------|---------------------|--|----------------|--------------------|------------------|--------------------|---------------------|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------|---------------------|------------|-------------------|--------------------|----------------------------|--------------------|-------------------|------------------------|---------------------|-----------------------|
| Parameter | Unit ⁽²⁾ | Industrial Direct Contact ⁽¹⁾ | Storm Sewer | MH-1A(3)- Basin | MH-1A 9/22/17 | MH-1A (10/6/17) | MH-1A (10/17/17) | MH-1A (02/21/18) | MH-1A 051018 | MH-1A 082318 | MH-1A 100818 | MH-1A (5/30/2019) | MH-1A 100819 | MH-1A (06/09/20) | Pipe | Outfall (6/30) | Outfall 9/22/17 | Outfall Pipe- 051018 | Outfall- 082318 | Outfall 100818 | Outfall (5/30/2019) | Outfall (100819) | Outfall (06/09/20) |
| Sample Date | | - | 12/28/2016 | 6/30/2017 | 9/22/2017 | 10/6/2017 | 10/17/2017 | 2/21/2018 | 5/10/2018 | 8/23/2018 | 10/8/2018 | 5/30/2019 | 10/8/2019 | 6/9/2020 | 12/19/2016 | 6/30/2017 | 9/22/2017 | 5/10/2018 | 8/23/2018 | 10/8/2018 | 5/30/2019 | 10/8/2019 | 6/9/2020 |
| Matrix | | | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil | Soil |
| PCB-1016 | mg/kg | 28 | <0.011 | <0.0092 | <0.0089 | <0.0097 | <0.010 | <0.0094 | <0.0083 | <0.0053 | <0.0058 | <0.0058 | <0.0059 | <0.0059 | <0.0095 | <0.0086 | <0.011 | <0.0099 | <0.0061 | <0.0067 | <0.0080 | <0.0059 | <0.0061 |
| PCB-1221 | mg/kg | 0.883 | <0.0059 | <0.0051 | <0.0049 | <0.0054 | <0.0057 | <0.0052 | <0.0046 | <0.0076 | <0.0084 | <0.0083 | <0.0084 | <0.0085 | <0.0053 | <0.0048 | <0.0061 | <0.0055 | <0.0088 | <0.0096 | <0.011 | <0.0085 | <0.0087 |
| PCB-1232 | mg/kg | 0.792 | <0.0040 | <0.0035 | <0.0034 | <0.0037 | <0.0039 | <0.0036 | <0.0031 | <0.0050 | <0.0056 | <0.0055 | <0.0056 | <0.0056 | <0.0036 | <0.0032 | <0.0042 | <0.0038 | <0.0059 | <0.0064 | <0.0076 | <0.0057 | <0.0058 |
| PCB-1242 | mg/kg | 0.972 | <0.0063 | <0.0055 | <0.0053 | <0.0058 | <0.0061 | <0.0056 | <0.0049 | <0.010 | <0.011 | <0.011 | <0.012 | <0.012 | <0.0057 | <0.0051 | <0.0066 | <0.0059 | <0.012 | <0.013 | <0.016 | <0.012 | <0.012 |
| PCB-1248 | mg/kg | 0.975 | 3.6 | 2.2 | 0.11 | 0.23 | 0.71 | 0.33 | 0.15 | 0.14 | 0.16 | 0.24 | 0.11 J | 0.14 | 9.2 | 5.0 | 4.0 | 1.9 | 0.32 | 0.57 | 0.43 | 0.33 | 0.33 |
| PCB-1254 | mg/kg | 0.988 | <0.0063 | <0.0055 | <0.0053 | <0.0058 | <0.0061 | <0.0056 | <0.0049 | <0.0084 | <0.0093 | <0.0092 | <0.0093 | <0.0094 | <0.0057 | <0.0051 | <0.0066 | <0.0059 | <0.0097 | <0.011 | <0.013 | <0.0094 | 0.16 |
| PCB-1260 | mg/kg | 1 | <0.0034 | <0.003 | <0.0029 | <0.0031 | <0.0033 | <0.0031 | <0.0027 | <0.0081 | <0.0090 | <0.0089 | <0.0091 | <0.0091 | 0.37 | <0.0028 | <0.0036 | <0.0032 | <0.0095 | <0.010 | <0.012 | <0.0091 | <0.0094 |
| Total PCBs | mg/kg | 0.967 | 3.6 | 2.2 | 0.11 | 0.23 | 0.71 | 0.33 | 0.15 | 0.14 | 0.16 | 0.24 | 0.11 J | 0.14 | 9.6 | 5.0 | 4.0 | 1.9 | 0.32 | 0.57 | 0.43 | 0.33 | 0.50 |

Updated by: L. Hoerning 6/25/2020

Checked by: A. Stehn 7/28/2020

Notes:

< = Less than

mg/kg = Milligrams per kilogram

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.

μg/L = Micrograms per liter

RCL = residual contaminant level

PCBs = Polychlorinated Biphenyls

Bold and Italics = WDNR Industrial Direct Contact Limit Exceedance

Footnotes:

(1) The total PCBs and specific aroclors are compared to the WDNR industrial direct contact residual contaminant levels (June 2018).

(2) Samples are reported in mg/kg unless otherwise noted.

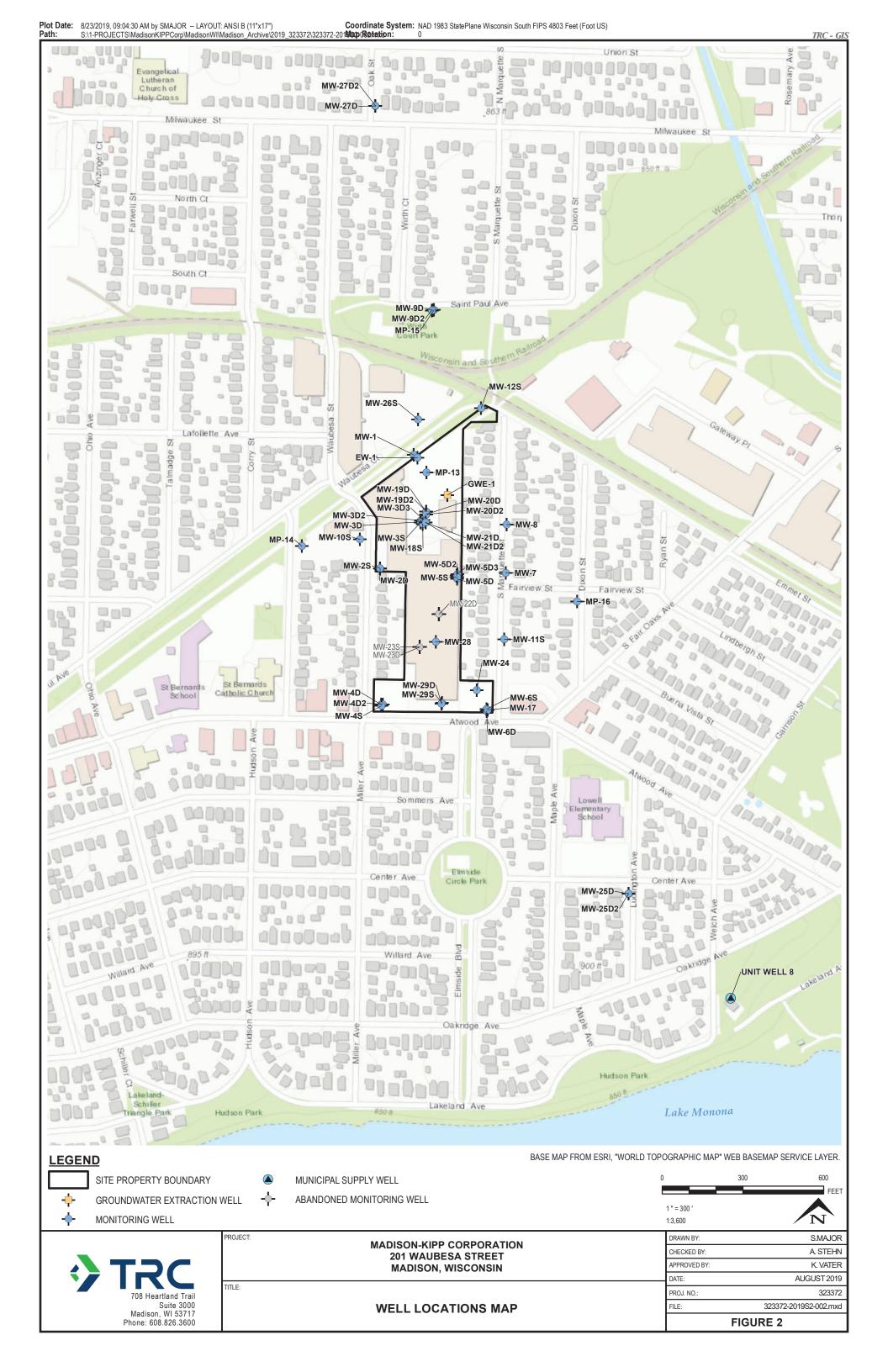
\madison-vfp\Records\-\\\PMS\\PJIT2\\372148\\0000\\000004\\372148\\0000\\000004\\372148\\0000\\PIT2\\-002_T5.x\\sx

SITE LOCATION MAP

Madison, WI 53717 Phone: 608.826.3600

FILE:

FIGURE 1







SITE PROPERTY BOUNDARY SOIL EXTRACTION WELL

 \triangle

PROJECT:

TITLE:

- VAPOR MONITORING POINT VAPOR MONITORING POINT (PROPOSED 2018 SAMPLING) 2.
- VAPOR MONITORING POINT (LOST)

BASE MAP IMAGERY FROM ESRI/DIGITAL GLOBE, 2018. PARCEL INFORMATION FROM WISCONSIN STATE CARTOGRAPHER'S OFFICE, 2018

100 200 FEET 1 " = 100



MADISON-KIPP CORPORATION 201 WAUBESA STREET MADISON, WISCONSIN

SOIL VAPOR EXTRACTION WELL AND VAPOR MONITORING POINT LOCATION MAP

| FIGURE 3 | | | | | | | | |
|--------------|-----------------------|--|--|--|--|--|--|--|
| FILE: | 323372-2019S2-003.mxd | | | | | | | |
| PROJ. NO.: | 323372 | | | | | | | |
| DATE: | AUGUST 2019 | | | | | | | |
| APPROVED BY: | K. VATER | | | | | | | |
| CHECKED BY: | A STEHN | | | | | | | |
| DRAWN BY: | S. MAJOR | | | | | | | |
| | | | | | | | | |



SITE PROPERTY BOUNDARY ——

S-1 PIPE SECTION — S-3-ABANDONED (NOTE 3)

 \forall **ROOF DRAIN INLET** S-2 PIPE SECTION — S-4 PIPE SECTION

 \oplus MANHOLE/CATCH BASIN OUTFALL

 \bigcirc

S-3 PIPE SECTION

PROJECT:

TITLE:

MADISON-KIPP CORPORATION 201 WAUBESA STREET

Suite 3000 Madison, WI 53717 Phone: 608.826.3600

RAIN GARDEN SITE MAP AND STORM SEWER INFRASTRUCTURE

MADISON, WISCONSIN

1:1,200 DRAWN BY: S. MAJOR A. STEHN CHECKED BY: APPROVED BY K. VATER DATE: AUGUST 2019 PROJ. NO.: 323372 323372-001.mxd FILE: FIGURE 4

100

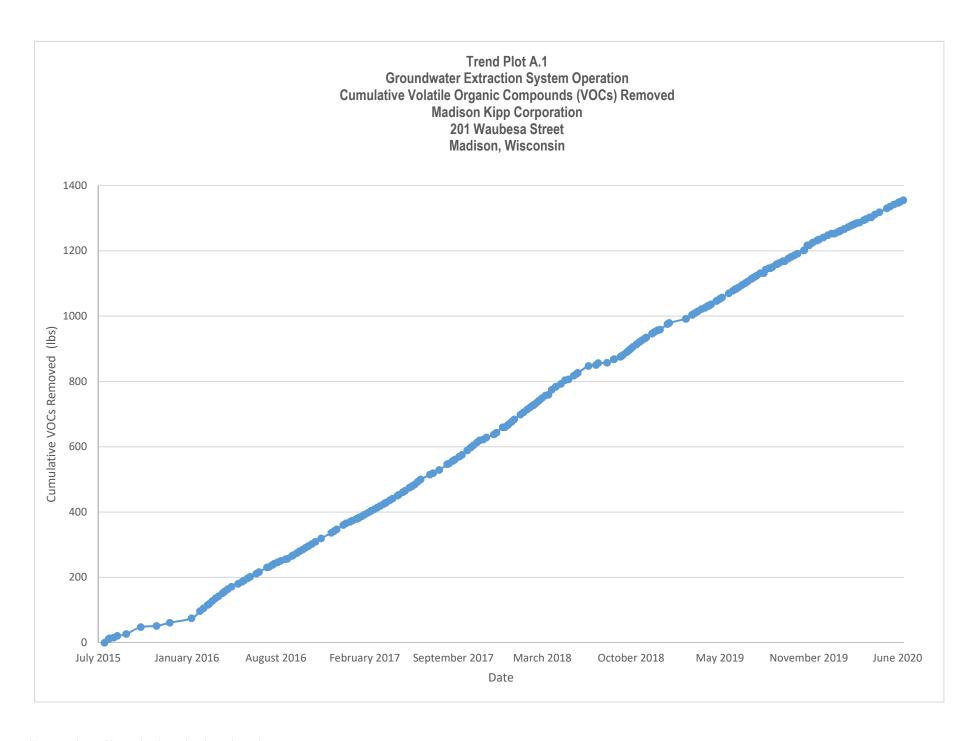
1 " = 100

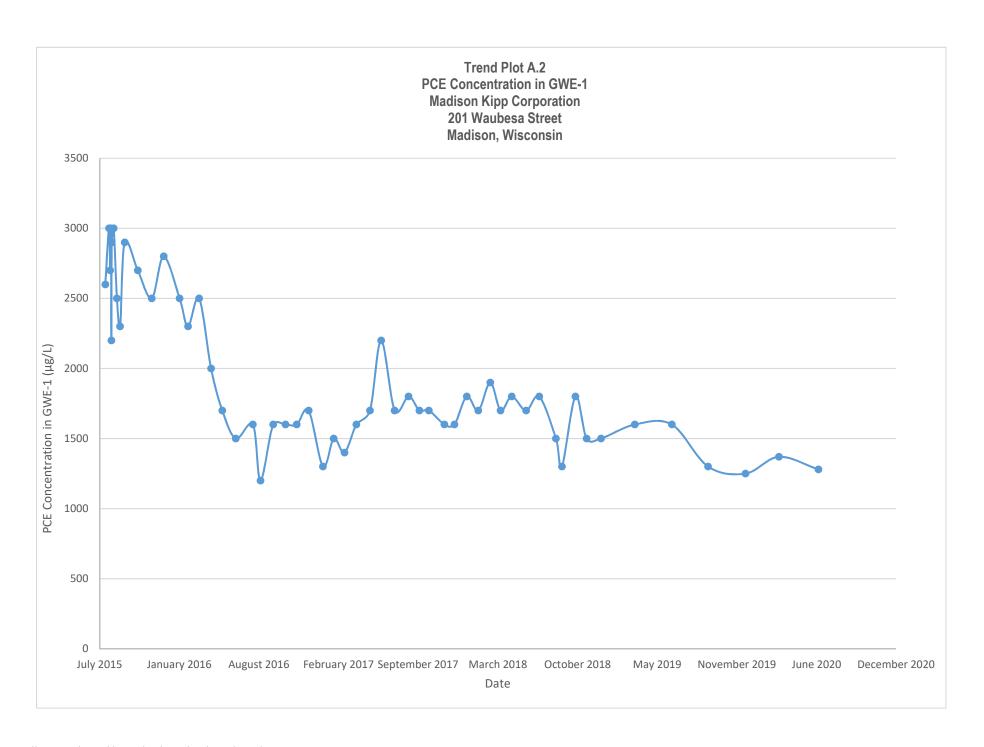
200

FEET

TRC - GIS

Attachment 1 Trend Plots





Attachment 2

Remediation Site Operation, Maintenance, Monitoring, and Optimization Report Form 4400-194

State of Wisconsin Department of Natural Resources PO Box 7921, Madison WI 53707-7921 dnr.wi.gov

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

Form 4400-194 (R 07/19) Page 1 of 29

GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM:

Completion of the applicable portions of this form is required under Wis. Admin. Code § NR 724.13(3). Failure to submit this form as required is a violation of that rule section and is subject to the penalties in Wis. Stats. § 292.99. This form must be submitted every six months for remediation projects that report operation and maintenance progress, in accordance with Wis. Admin. Code §. NR 724.13(3). A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Submittal of this form is not a substitute for reporting required by department programs such as Waste Water or Air Management.

Notes:

- Long-term monitoring results submitted in accordance with Wis. Admin. Code § NR 724.17(3) are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with that section of code.
- Responsible parties should check with the department Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent state-lead response.
- 3. Responsible parties should check with the department Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and should obtain prior written approval for any omissions or changes.
- 4. Responsible parties are required to report separately on a semi-annual basis under Wis. Admin. Code § NR 700.11(1). Reporting under that provision is through an internet-based form. More information can be found at: http://dnr.wi.gov/topic/Brownfields/documents/regs/NR700progreport.pdf.
- 5. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by Remediation and Redevelopment Program. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (Wis. Stats. §§ 19.31–19.39).

| Section GI - General Site Info | ormation | | | | | | | | | |
|------------------------------------|--|--------|--|---------------|---------|--------------|----------|------------|-----------|--|
| A. General Information | | | | | | | | | | |
| 1. Site name | | | | | | | | | | |
| Madison-Kipp Corporation | | | | | | | | | | |
| 2. Reporting period from: | 01/01/2020 | To: 06 | /30/2020 | Days in | period: | | | 182 | | |
| 3. Regulatory agency (enter DN | R, DATCP and/or o | other) | 4. BRRTS ID No | . (2 digit pr | ogram-2 | digit | county-6 | digit site | specific) | |
| DNR | | | 02-13-558625 | | | | | | | |
| 5. Site location | | | | | | | | | | |
| Region | County | | Address | | | | | | | |
| South Central Region | Dane | | 201 Waubes | a Street | | | | | | |
| Municipality name | Town 🔵 Village | | | Township | Range | ● E | Section | 1/4 | 1/4 1/4 | |
| Madison | | | | 07 N | 10 | $\bigcirc W$ | 5 | SW | NW | |
| 6. Responsible party | | | 7. Consultant | | | | | | | |
| Name | | | Select if the following information has changed since the last | | | | | | | |
| Tony Koblinski | | | ☐ submittal | | | | | | | |
| Mailing address | | | Company name | | | | | | | |
| 201 Waubesa Street, Madison | n, WI 53704 | | TRC | | | | | | | |
| Phone number | | | Mailing address Phone number | | | | | | | |
| | 242 5244 | | 708 Heartland Trail Suite 3000 | | | | | | (2(00 | |
| | 242-5244 | | Madison, WI | 53/1/ | | | | (608) 82 | 6-3600 | |
| 8. Contaminants VOCs, metals, PCBs | | | | | | | | | | |
| <u> </u> | | | | | | | | | | |
| 9. Soil types (USCS or USDA) | | | | | | | | | | |
| CL, SP, GP | | | | | | | | | | |
| 10. Hydraulic conductivity(cm/se | 11. Average linear velocity of groundwater (ft/yr) | | | | | | | | | |
| 0.08 - 13.2 | 0.5 - 12.9 | | | | | | | | | |

| Site name: Madison-Kipp Corporation | Remediation Site Operation, Maintenance, | | | | | | | | |
|---|--|-------------------------|--|--|--|--|--|--|--|
| Reporting period from: 01/01/2020 To: 06/30/2020 | Monitoring & Optimization Report | | | | | | | | |
| Days in period: 182 | Form 4400-194 (R 07/19) | Page 2 of 29 | | | | | | | |
| 12. If soil is treated ex situ, is the treatment location off site? Yes |) No | | | | | | | | |
| If yes, give location: Region | County | | | | | | | | |
| | | | | | | | | | |
| Municipality name City Town Village | Township Range OE | Section 1/4 1/4 1/4 | | | | | | | |
| | N OW | | | | | | | | |
| B. Remediation Method | | | | | | | | | |
| Only submit sections that apply to an individual site. Check all that apply | | | | | | | | | |
| Groundwater extraction (submit a completed Section GW-1). | | | | | | | | | |
| Free product recovery (submit a completed Section GW-1). | | | | | | | | | |
| In situ air sparging (submit a completed Section GW-2). | | | | | | | | | |
| Groundwater natural attenuation (submit a completed Section GW-3 | | | | | | | | | |
| Other groundwater remediation method (submit a completed Section | GW-4). | | | | | | | | |
| Soil venting (including soil vapor extraction building venting and biov | nting submit a completed Section I | S-1). | | | | | | | |
| Soil natural attenuation (submit a completed Section IS-2). | | | | | | | | | |
| Other in situ soil remediation method (submit a completed Section Is | 3). | | | | | | | | |
| Biopiles (submit a completed Section ES-1). | | | | | | | | | |
| Landspreading/thinspreading of petroleum contaminated soil (subm | completed Section ES-2). | | | | | | | | |
| Other ex situ remediation method (submit a completed Section ES-3 | | | | | | | | | |
| Site is a landfill (submit a completed Section LF-1). | | | | | | | | | |
| C. General Effectiveness Evaluation for All Active Systems | | | | | | | | | |
| If the remediation is active (not natural attentuation), complete this subs | tion. | | | | | | | | |
| 1. Is the system operating at design rates and specifications? \bigcirc γ_e | No | | | | | | | | |
| If the answer is no, explain whether or not modifications are necessa | | | | | | | | | |
| The onsite soil vapor extraction system is currently being eval | | | | | | | | | |
| by the WDNR was temporarily shutdown in October 2018, an | | | | | | | | | |
| system pump rate was adjusted to 40 gpm during the SVE shu will be adjusted to allow for the system to run at 45 gpm. | 5wn period. Once the evaluation | on is complete the GE15 | | | | | | | |
| 2. Are modifications to the system warranted to improve effectiveness | Yes No | | | | | | | | |
| If yes, explain: | J 165 9 116 | | | | | | | | |
| , | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 3. Is natural attenuation an effective low cost option at this time? | Yes No | | | | | | | | |
| 4. Is closure sampling warranted at this time? Yes No | 103 (3) 110 | | | | | | | | |
| 5. Are there any modifications that can be made to the remediation to in | rove cost effectiveness? | ′es () No | | | | | | | |
| If yes, explain: | | | | | | | | | |
| The onsite soil vapor extraction system is currently being eval | ated for continued operation. The | ne system as approved | | | | | | | |
| by the WDNR was temporarily shutdown in October 2018, an | soil gas is being monitored at t | he site. | | | | | | | |

| Site name: Madison-Kipp Corporation | | Remediation Site Operation, Maintenan | |
|--|---|---|--------------------|
| Reporting period from: 01/01/2020 | To: <u>06/30/2020</u> | Monitoring & Optimization | Report |
| Days in period: 182 | | Form 4400-194 (R 07/19) | Page 3 of 29 |
| D. Economic and Cost Data to Date | e | | |
| Total investigation cost: | | | |
| 2. Implementation costs (design, capital | al and installation costs, exclu | ding investigation costs: | |
| 3. Total costs during the previous repo | orting period: | | |
| 4. Total costs during this reporting peri | iod: | | |
| 5. Total anticipated costs for the next r | eporting period: | | |
| 6. Are any unusual or one-time costs li If yes, explain: | isted in the reporting periods o | covered by D.3., D.4. or D.5. above? | ∕es ○ No |
| | | | |
| | | | |
| 7. If closure is anticipated within 12 mo | onths, estimated costs for proj | ect closeout: | |
| E. Name(s), Signature(s) and Date | of Person(s) Submitting Fo | rm | |
| | tion, monitoring or an investiga | reports under ch. NR 712 Wis. Adm. Code are ation. Other persons may sign this form for site | |
| Registered Professional Engineers: | | | |
| of ch. A-E 4, Wis. Adm. Code; that this 8, Wis. Adm. Code; and that, to the be prepared in compliance with all applications. | s document has been prepared est of my knowledge, all inform able requirements in chs. NR 7 | | Conduct in ch. A-E |
| Print name | | <u> Fitle</u> | |
| Katherine Vater | | Project Manager | |
| Signature 1/+ | · · · · · · · · · · · · · · · · · · · | Date 8/18/2020 | |
| Hydrogeologists: | | 0/10/2020 | |
| I hereby certify that I am a hydrogeolo | n this document is correct and | s. NR 712.03(1), Wis. Adm. Code, and that, to the document was prepared in compliance wi | |
| Print name | 7 | litle little | |
| Signature | | Date | |
| Scientists: | | | |
| | | 712.03(3), Wis. Adm. Code, and that, to the beent was prepared in compliance with all applications. | • |
| Print name | 17 | Fitle Fitle | |
| Signature | | Date | |
| Other Persons: | | | |
| Print name | [7 | <u> Fitle</u> | |
| Andrew Stehn | 1 | Project Engineer | |
| Signature | | Date | |
| andrew M. Stohn | | 08/18/2020 | |

| Site name: Madison-Kipp Corporation | |
|-------------------------------------|----------------|
| Reporting period from: 01/01/2020 | To: 06/30/3030 |

Remediation Site Operation, Maintenance, **Monitoring & Optimization Report**

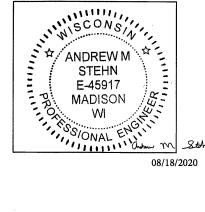
Days in period: 182

Form 4400-194 (R 07/19)

Page 4 of 29

Professional Seal(s), if applicable:





08/18/2020

| Si | te name: Madison-Kipp Corporation | | | Site Operation, M | • |
|----|--|--------------------------------|-----------------------------|-----------------------------|---------------|
| Re | eporting period from: 01/01/2020 | To: <u>06/30/2020</u> | | Coptimization Rep | oort |
| Da | ays in period: ₁₈₂ | | Form 4400-194 (R | 07/19) | Page 5 of 29 |
| | ection GW-1, Groundwater Pump a . Groundwater Extraction System O | - | ree Product Recovery | Systems | |
| 1. | Total number of groundwater extraction | on wells or trenches availabl | le: 1 and the | number in use during peri | od: 1 |
| 2. | Number of days of operation (only list 172 | the number of days the sys | stem actually operated, if | unknown explain: | |
| 3. | System utilization in percent (days of 95% | operation divided by reportir | ng time period multiplied l | by 100). If < 80%, explain | : |
| | Quantity of groundwater extracted dur | | 9,908,962 gal | lons | |
| 5. | Average groundwater extraction rate: | gpm | | | |
| | Quantity of dissolved phase contaminates. Free Product Recovery System Op | | ne period in pounds: | 116 | bs |
| 1. | Is free product (nonaqueous phase liq If yes, explain: | uid) being recovered at this | s site? |) | |
| 2. | Quantity of free product extracted dur | ring this time period (enter n | none if none): | gallons | |
| | Average free product extraction rate: | | gpm | | |
| _ | System Effectiveness Evaluation | | | | |
| | Is a contaminated groundwater plume If no, explain: | e fully contained in the capt | ture zone? | | Yes No |
| 2. | If free product is present, is the free p | product fully contained in ca | apture zone? | | Yes (No |
| 3. | If free product is present in any wells | at the site, but free product | t was not recovered durin | g reporting period, explair | n: |
| 4. | If free product is not present, determi ES and PAL. Perform this calculation highest contaminant concentration m PRODUCT" in C.4.a. | n for all contaminants that we | ere present at the site tha | at have ch. NR 140 standa | ards. Use the |
| | a. Contaminant: | | Tetrachloroethene | | |
| | b. Percent reduction necessary to rea | ach ch. NR 140 ES and PAI | L: 99 % | | |
| | | | | | |
| | c. Maximum contaminant concentrati | | vell of that contaminant: | 3,290 (Oct. 2019) | μg/L |

| Site name: Madison-Kipp Corporation | | Remediation Site Operation, Maintenance | | |
|--|--------------------------------|--|-----------------------|--|
| Reporting period from: 01/01/2020 To: 06/30/2020 | | Monitoring & Optimization Report | | |
| Days in period: 182 | | Form 4400-194 (R 07/19) | Page 6 of 29 | |
| e If the maximum concentration | n in a monitoring well is more | that one order of magnitude above the conc | entration measured in | |

e. If the maximum concentration in a monitoring well is more that one order of magnitude above the concentration measured in an extraction well, explain why the extracted groundwater contamination levels are significantly less than the levels at other locations within the aquifer.

Not applicable

D. Additional Attachments

Attach the following to this form:

- Most recent report to the DNR Wastewater Program, if applicable.
- Figures 3-13 2019 Annual Report Update Figures
- Groundwater contour map with capture zone indicated. will be provided in 2020 Annual Report)
- Groundwater contaminant distribution map (may be combined with contour map).
- Graph of cumulative contaminant removal, if both free product recovery and ground water extraction are used, provide separate graphs.(Attachment 1 Trend Plot A.1)
- · Time versus groundwater contaminant concentration graphs for the contaminant listed in C.4.a. (above), as follows:
 - -- Graph of contaminant concentrations versus time for each extraction well in use during the period. (Attachment 1 Trend Plot A.2)
 - -- Graph of contaminant concentrations versus time for the monitoring well with the greatest level of contamination. (See Appendix A Trend Plot A.3 of the 2019 Annual Report)
- Groundwater contaminant chemistry table. (See Table 16 of the 2019 Annual Report)
- Groundwater elevations table. (See Table 15 of the 2019 Annual Report)
- System operational data table. (Table 1)

2019 Annual Report Reference:

TRC Environmental Corporation. 2019. Operations, Monitoring, and Maintenance Annual Report – January 1, 2019 – December 31, 2019, Madison-Kipp Corporation Groundwater and Soil Vapor Extraction Treatment Systems. April 7, 2020.

| | te name: Madison-Kipp Corporation | | _ Remediation Si | • | • |
|---------------|---|-------------------------------------|-------------------------------|--------------------|------------------|
| Re | eporting period from: 01/01/2020 | To: <u>06/30/2020</u> | Monitoring & O | ptimization I | Report |
| Da | ays in period: 182 | | Form 4400-194 (R 07/1 | 9) | Page 7 of 29 |
| S | ection GW-2, In Situ Air Sparging | g Systems | | | |
| A. | . In Situ Air Sparging System Ope | ration | | | |
| 1. | Number of air injection wells at the | site and the number actually in | use during the period: | | |
| 2. | Number of days of operation (only | list the number of days the syste | em actually operated, if unk | (nown explain): | |
| 3. | System utilization in percent (days | of operation divided by reporting | g time period multiplied by | 100). If < 80%, e. | xplain: |
| В | . System Effectiveness Evaluation | n | | | |
| 1. | If free product is not present, deter ES and PAL. Perform this calculatinghest contaminant concentration PRODUCT" in B.1.a. | on for all contaminants that were | e present at the site that ha | ave ch. NR 140 sta | andards. Use the |
| | a. Contaminant: | | | | |
| | b. Percent reduction necessary to | each ch. NR 140 ES and PAL: | % | | |
| | c. Maximum contaminant concentra | ation level in any monitoring wel | l: | μg/L | |
| 2. | Is there any evidence that air is sho If yes, explain: | ort circuiting through natural or r | man-made pathways? | Yes O No | |
| 3. | Is the size of the plume: | asing | asing ? | | |
| $\overline{}$ | Additional Attachments | | | | |

Attach the following to this form:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Site map with all air injection wells and groundwater monitoring points.
- Graph of contaminant concentrations versus time for the contaminant listed in B.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

| Site name: Madison-Kipp Corporation | | Remediation Site Operation | n, Maintenance, |
|---|-----------------------------|---|------------------------|
| Reporting period from: 01/01/2020 | To: 06/30/2020 | Monitoring & Optimization | Report |
| Days in period: 182 | | Form 4400-194 (R 07/19) | Page 8 of 29 |
| Section GW-3, Natural Attenuation (| Passive Bioremediatio | n) in Groundwater | |
| A. Effectiveness Evaluation | | | |
| PAL. Perform this calculation for all cont | aminants that were present | requires the greatest percent reduction to achieve t at the site that have ch. NR 140 standards. Use the riod. If free product is present, write "FREE PROD | ne highest contaminant |
| a. Contaminant: | | | |
| b. Percent reduction necessary to rea | ch ch. NR 140 ES and PA | L:% | |
| c. Maximum contaminant concentration | on level in any monitoring | well of that contaminant: | μg/L |
| 2. Aquifer parameters: | | | |
| a. Hydraulic conductivity: | | | cm/sec |
| b. Groundwater average linear velocit | y: | | ft/yr |
| 3. Is there a downgradient monitoring we | ell that meets ch. NR 140 s | standards? | |
| 4. Based on water chemistry results, is the | ne plume: O Expanding | ○ Stabalized ○ Contracting ? | |
| 5. If the answer in 4. (above) is "expanding lf yes, explain: | ng," is natural attenuation | still the best option? O Yes No | |
| 6. Biodegradation parameters: | | | |
| a. Upgradient (or other site specific ba | ackground) DO level: | | μg/L |
| b. DO levels in the part of the plume the | hat is most heavily contan | ninated | μg/L |
| 7. Is site closure a viable option within 12 | 2 months from the date of | this form? | |
| 8. Are there any modifications that can in If yes, explain: | nprove cost effectiveness | ? O Yes O No | |
| Have groundwater table fluctuations c If yes, explain: | hanged the contaminant lo | evel trends over time? Yes No | |
| 10. Has the direction of groundwater flow | v changed during the repo | rting period? O Yes No | |
| If yes, approximate change in degree | es: | _ | |
| B. Additional Attachments | | | |

В

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.

Note: This is the minimum required graph; however, it is recommended that multiple time versus contamination concentration graphs as described in the instructions on page 24 for Natural Attenuation of Groundwater be submitted.

- Graph of contaminant concentrations versus distance.
- Groundwater contaminant chemistry table.
- Groundwater biological parameters.
- Groundwater elevations table.

| Site name: Madison-Kipp Corporation | | Remediation Site Operation, Maintenance | | |
|--|----------------------------------|--|---------------------------|--|
| Reporting period from: 01/01/2020 | To: <u>06/30/2020</u> | _ Monitoring & Optimizatio | n Report | |
| Days in period: 182 | | Form 4400-194 (R 07/19) | Page 9 of 29 | |
| Section GW-4, Other Groundwater | Remediation Methods | | | |
| A. Effectiveness Evaluation | | | | |
| PAL. Perform this calculation for all co | ontaminants that were present at | quires the greatest percent reduction to achie the site that have ch. NR 140 standards. Use I. If free product is present, write "FREE PRO | e the highest contaminant | |
| a. Contaminant: | | | | |
| b. Percent reduction necessary: | % | | | |
| c. Maximum contaminant concentra | tion level in any monitoring wel | l:µg/L | | |
| 2. Is the size of the plume: Increase | sing O Stabalized O Decrea | sing ? | | |
| 3. Describe the method used to remed | iate groundwater at the site: | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| 4. List any additional information requi | red by the DNR for this method | for this site: | | |
| , | , | | | |
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B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- Any other attachments required by the DNR for this remediation method.

| Site name: Madison-Kipp Corporation | Remedia | ation Site Oper | ation, Maintenance, |
|---|---------------------------|-------------------------|---------------------------|
| Reporting period from: 01/01/2020 To: 06/30/2020 | Monitori | ing & Optimizat | tion Report |
| Days in period: 182 | Form 4400-1 | 94 (R 07/19) | Page 10 of 29 |
| Section IS-1, Soil Venting (Including Soil Vapor Extraction | , Building Venting | and Bioventing) | |
| A. Soil Venting Operation | | | |
| Note: This form is not required for building vapor mitigation syste and are not considered part of ongoing active soil remediation. | ms that are installed | proactively to protect | building occupants/users |
| 1. Number of air extraction wells available and number of wells ac | tually in use during th | ne period: | 0 |
| 2. Number of days of operation (only list the number of days the s 0, SVE system temporarily shutdown since October 2018 | • | • | iin): |
| 3. System utilization in percent (days of operation divided by report 0 | rting time period mult | iplied by 100). If < 80 | 0%, explain: |
| 4. Average depth to groundwater: 18.78 (Oct. 2019) ft | | | |
| B. Building Basement/Subslab Venting System Operation | | • | |
| Number of venting points available and number of points actual | lly in use during the p | eriod: | 0 |
| 2. Number of days of operation (only list the number of days the \mathbf{s}) | ystem actually opera | ted, if unknown expla | in): |
| 3. System utilization in percent (days of operation divided by repo) | orting time period mul | tiplied by 100). If < 8 | 0%, explain: |
| C. Effectiveness Evaluation | | | |
| Average contaminant removal rate for the entire system: | 0 | pounds per day | |
| 2. Average contaminant removal rate per well or venting point: | 0 | pounds per day | |
| If the average contaminant removal rate is less than one pound rate per well is less than one tenth of a pound per day, evaluate | | system, or if the ave | erage contaminant removal |
| a. If contaminants are aerobically biodegradable and confirmati | on borings have not | been drilled in the pa | st year: |
| i. Oxygen levels in extracted air: percent | | | |
| ii. Methane levels in extracted air (ppm _V) If over 10 ppm _V , ex | xplain: | | |
| iii. If methane is not present above 10 ppm _V and if oxygen is Drill confirmation borings during the next reporting per Or, perform an in situ respirometry test in a zone of high | iod, if the entire site s | should be considered | for closure. |

- Or, perform an in situ respirometry test in a zone of high contamination. Do not perform the test in an air extraction well, use a gas probe or water table well. If a zero order rate of decay based on oxygen depletion is less than 2 mg/kg per day, then you should drill confirmation borings, if the entire site should be considered for closure. If the rate of decay is between 2 and 10 mg/kg, operate for one more reporting period before evaluating further. If the zero order rate of decay is greater than 10 mg/kg total hydrocarbons, continue operating the system in a manner than maximizes aerobic biodegradation.
- b. If contaminants are not aerobically biodegradable and confirmation borings have not been recently drilled during the past year, you should drill confirmation borings during the next reporting period if the entire site should be considered for closure.
- c. If soil borings were drilled during the past year and soil contamination remains above acceptable levels, explain if the system effectiveness can be increased and/or if other options need to be considered to achieve cleanup criteria.

D. Additional Attachments

Attach the following to this form:

- Well and soil sample location map indicating all air extraction wells. If forced air injection wells are also in use, identify those wells. (See Figure 3)
- If water table monitoring wells are present at the site, a map of well locations. (Figure 2)
- Time versus vapor phase contaminant concentration graph. N/A
- · Time versus cumulative contaminant removal graph. N/A
- Groundwater elevations table, if water table wells are present at the site; also list screen lengths and elevations. (See Table 15 of the 2019 Annual Report)
- Table of soil contaminant chemistry data. N/A
- Soil gas data, if gas probes are used to monitor subsurface conditions in locations other than where air is extracted. (See Table 17 of the 2019 Annual Report)
- System operational data table. N/A

2019 Annual Report Reference:

TRC Environmental Corporation. 2019. Operations, Monitoring, and Maintenance Annual Report – January 1, 2019 – December 31, 2019, Madison-Kipp Corporation Groundwater and Soil Vapor Extraction Treatment Systems. April 7, 2020.

| Site name: Madison-Kipp Corporation | | Remediation Site Operation | |
|---|---------------------------------|--|---------------------------|
| Reporting period from: 01/01/2020 | To: <u>06/30/2020</u> | Monitoring & Optimizatio | • |
| Days in period: 182 | | Form 4400-194 (R 07/19) | Page 11 of 29 |
| Section IS-2, Natural Attenuation | (Passive Bioremediation) | in Soil | |
| A. Effectiveness Evaluation 1. Soil gas information in the soil that | is most contaminated from a | permanently installed gas probe(s) or water | table monitoring well(s) |
| a. Hydrocarbon levels: | ppm, with a | | table morntoming well(3). |
| · | percent | | |
| b. Oxygen levels: | <u>—</u> ' | | |
| c. Carbon dioxide levels(specify pp | · | | |
| d. Methane levels: | ppm | | |
| 2. Soil gas information in background | (uncontaminated soil) from pe | ermanently installed gas probe(s)or water tal | ole monitoring well(s): |
| a. Hydrocarbon levels: | ppm, with a | ın FID | |
| b. Oxygen levels: | percent — | | |
| c. Carbon dioxide levels(specify pp | m or percent): | | |
| d. Methane levels: | ppm | | |
| to this reporting period. Since this from prior sampling events. | data is used to assess progre | drilled periodically, list the most recent data e ss based on the most recent soil sampling e | vent, do not list data |
| a. Total hydrocarbons (Specify if G | RO and/or DRO): | | µg/kg |
| b. Specific compounds (µg/kg): | | | |
| i. Benzene: | μg/kg | | |
| ii. 1,2 Dichloroethane: | µg/kg | | |
| iii. Ethylbenzene: | μg/kg | | |
| iv. Toluene: | µg/kg | | |
| v. Total xylenes: | μg/kg | | |
| 4. Is there any evidence that contamir | nants are leaching into ground | dwater? O Yes O No | |
| If the answer is yes and if groundw | ater quality is not being monit | ored, explain: | |
| | | | |
| | | | |
| 5. Is site closure a viable option within | 12 months from the date of t | his form? Yes No | |
| 6. Are there any modifications that car | n be made to the remediation | to improve cost effectiveness? \bigcirc Yes \bigcirc |) No |
| If yes, explain: | | | |

B. Additional Attachments

Attach the following to this form:

- Well and soil sample location map.
- Cross sections showing the water table, soil sampling locations, screened intervals for gas probes or water table wells, geologic contacts, and any former excavation boundaries.
- Graphs of contaminant concentrations, oxygen, carbon dioxide and methane levels over time.
- Groundwater elevations table, if water table wells are present at the site.
- Table of soil contaminant chemistry.
- Table of soil gas readings.

| Site name: Madison-Kipp Corporation | | Remediation Site Operation, Maintenance | | |
|--|---------------------------------|---|---------------|--|
| Reporting period from: 01/01/2020 | To: 06/30/2020 | Monitoring & Optimization | | |
| Days in period: ₁₈₂ | | Form 4400-194 (R 07/19) | Page 12 of 29 | |
| Section IS-3, Other In Situ Soil Re | mediation Methods | | | |
| A. Effectiveness Evaluation | mediation Methods | | | |
| 1. Describe the method used to remed | iate soil at the site: | | | |
| | | | | |
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| 2. List all information required by the D | INP for this remediation meth | and for this site: | | |
| 2. List all illiormation required by the b | TAIL TOT THIS TETHERIATION THET | iod for this site. | | |
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| B. Additional Attachments | | | | |
| Attach the following to this form: | | | | |

Any other attachments required by the DNR for this remediation method.

| Site name: Madison-Kipp Corporation | | Remediation Site Operation | |
|---|--|---|---------------|
| Reporting period from: 01/01/2020 | To: <u>06/30/2020</u> | Monitoring & Optimization | • |
| Days in period: 182 | | Form 4400-194 (R 07/19) | Page 13 of 29 |
| Section ES-1, Ex Situ Soil Treatme | nt Using Biopiles | | |
| A. Effectiveness Evaluation1. Volume of soil in the biopile (if multiple) | le biopiles, list number of pile | es and total volume): | |
| | | | |
| 2. Monitoring used to assess progress | and verify optimal conditions | for biodegradation. | |
| a. Vapor phase measurements of ga | ases (average of all readings | from most recent sampling event): | |
| i. VOCs by FID: | ppm | | |
| ii. Oxygen:percent | | | |
| iii. Carbon dioxide:p | ercent | | |
| iv. Methane: | ppm | | |
| b. Soil temperature: | °F - | | |
| c. Soil moisture sensors, if used: | percent | | |
| 3. Treatment amendments added to the | e soil during construction: | | |
| a. Artificial nutrients, excluding manuic. i. Types and total pounds added: | ure. | | |
| ii. Nitrogen and phosphorous con | tent of the added amendmen | t:percent | |
| b. Manure: | total pounds | | |
| c. Natural organic materials (straw, | wood chips, etc.)(type and tot | al pounds): | |
| 4. Forced air biopiles only answer the f | : ollowing: | | |
| a. Total air flow rate of the ventilation | n system: | scfm | |
| b. Average contaminant removal rat | | | |
| | e: | pounds per day | |
| c. Average biodegradation rate base | | pounds per day pounds per da | у |
| • | ed on oxygen utilization: | · | |
| • | ed on oxygen utilization: nonitor progress, list results. | pounds per da | |
| 5. If soil samples have been taken to m | ed on oxygen utilization: nonitor progress, list results. | pounds per da Only list the most recent results. If none of | |
| 5. If soil samples have been taken to ma. Total hydrocarbons. Specify if GR | ed on oxygen utilization: nonitor progress, list results. | pounds per da Only list the most recent results. If none of | |
| 5. If soil samples have been taken to ma. Total hydrocarbons. Specify if GRb. Specific compounds (μg/kg): | ed on oxygen utilization: nonitor progress, list results. | pounds per da Only list the most recent results. If none of | |
| 5. If soil samples have been taken to ma. Total hydrocarbons. Specify if GRb. Specific compounds (μg/kg):i. Benzene: | ed on oxygen utilization: nonitor progress, list results. RO and/or DRO:µg/kg | pounds per da Only list the most recent results. If none of | |

v. Total xylenes: B. Additional Attachments

Attach the following to this form:

• Figure showing the construction details of the biopile and any sampling locations within the biopile.

μg/kg

- Table of soil contaminant chemistry data.
- Table of operational data.

| Site name: Madison-Kipp Corporation | | Remediation Site Operation, Maintenance | |
|--|----------------------------------|--|-----------------------|
| Reporting period from: 01/01/2020 | To: 06/30/2020 | Monitoring & Optimization Report | |
| Days in period: 182 | | Form 4400-194 (R 07/19) | Page 14 of 29 |
| Section ES-2, Ex Situ Soil Treatn | nent Using Landspreading/ | Thinspreading | |
| A. Effectiveness Evaluation | | | |
| 1. Method used: | thinspreading | | |
| | | of contaminated soil on native topsoil, incorporation and the soil of the soil | |
| 2. Was any progress monitoring usin | g field screening on soil condu | cted during this reporting period? O Yes | No |
| 3. If the answer to A.2. (above) is yes | s: | | |
| i. List monitoring method: | | | |
| ii. List monitoring results: | | | |
| 4. Is there any evidence of soil erosic | on at the landspreading/thinspr | reading location? | |
| 5. Spreading thickness: | inches | | |
| 6. Type of crop planted (if thinspread | ing with no crop planted, so sta | ate): | |
| 7. Confirmation sampling date: | Anticipa | ted confirmation sampling date: | |
| Most recent soil sample results, if result of the most recent sampling | | alysis have been collected to monitor progress. en collected, enter NA. | Only list the highest |
| a. Total hydrocarbons. Specify if G | RO and/or DRO: | μg/kg | |
| b. Specific compounds (µg/kg): | | | |
| i. Benzene: | μg/kg | | |
| ii. 1,2 Dichloroethane: | μg/kg | | |
| iii. Ethylbenzene: | μg/kg | | |
| iv. Toluene: | μg/kg | | |
| v. Total xylenes: | μg/kg | | |

B. Additional Attachments

Attach the following to this form:

- Map of the landspreading/thinspreading area. If soil samples have been collected, specify locations of samples and dates of sampling.
- Table of soil contaminant chemistry data.
- Table of any field screening results with dates of sample collection.

| Site name: Madison-Kipp Corpo | oration | Remediation Site Operation, Maintenance, | | |
|--|---|--|----------------------------------|------------------------------|
| Reporting period from: 01/01/20 |)20 To: <u>06/30/20</u> |)20 | Monitoring & Optimiz | ation Report |
| Days in period: 182 | | | Form 4400-194 (R 07/19) | Page 15 of 29 |
| Section ES-3, Landfills | | | | |
| Note: Reporting forms or r the place of this form | | epartment app | proved Operation and Maintenance | Plan for a landfill may take |
| Specific Inspection Items | Potential Problem Areas | Status | | Notes |
| Perimeter Security Fencing | Broken or missing wood slats, torn chain link fabric, barbed wire, other - list | | | |
| Entrance Gate and Locking Mechanism | Lock broken/missing, mechanism inoperative. | | | |
| Monitoring Wells and Wellhead Covers | Signs of tampering, casing damaged, lock missing. | | | |
| Final Cover Vegetation | Bare spots, stressed vegetation, deep rooted vegetation. | | | |
| Final Cover Slope (explain below) | Gullies, lack of vegetation, subsidence, ponding. | | | |
| Evidence of Burrowing Animals | Damage to final cover, evidence of waste. | | | |
| Stormwater Drainage Channels | Gullies, erosion, debris, culvert blocked. | | | |
| Passive Landfill Gas Venting System | Damaged or blocked vent risers, stressed vegetation. | | | |
| Active Landfill Gas Extraction System | Damaged or blocked piping, cleanouts, other blower flare, knockouts, etc. | | | |
| Leachate Collection System | Pumps, connection piping, collection system piping, extraction wells, collection tanks, tanker truck loading system or sanitary sewer discharge piping. | | | |

Ponding, rutting, erosion, cracked or damaged pavement. Mowing and tall vegetation removal done to specified vegetation. Summary of Deficiencies and/or Corrective Actions:

Access Road Cover Mowing; Tall

Vegetation Removal

| Site name: Madison-Kipp Corporation | | Remediation Site Operation, Maintenance, | |
|-------------------------------------|----------------|--|---------------|
| Reporting period from: 01/01/2020 | To: 06/30/2020 | Monitoring & Optimization Repor | t |
| Days in period: 182 | | Form 4400-194 (R 07/19) | Page 16 of 29 |

B. Additional Attachments

Attach the following to this form:

- Any photographs documenting problems and maintenance activities.
- Maps, drawings showing site features requiring maintenance.
- Records for leachate pumping/discharge/hauling.
- Records for active gas extraction volumes.

Attachment 3 June 2020 WPDES DMR Submittal

Wastewater Discharge Monitoring Short Report

Facility Name: MADISON KIPP CORPORATION Contact Address: 708 Heartland Trail, Suite 3000

Madison, WI 53717

Facility Contact: Andrew Stehn, Project Engineer

Phone Number: 608-826-3665

Reporting Period: 04/01/2020 - 06/30/2020

Form Due Date : 07/21/2020 Permit Number : **0046566**

For DNR Use Only

Date Received:

DOC: 447471 FIN: 7960

FID: 113125320

Region: South Central Region

Permit Drafter: Trevor J Moen

Reviewer: Christopher A Dietrich

Office: Milwaukee

| Sample Point | Paramete # | r Parameter | Date Sample | Sample Type | Sample Results | Units | Limit Type | Limit | LOD | LOQ | QC Exceed? | Lab Certification |
|-----------------|---------------|--------------------------------|----------------|-------------|----------------|-------|-------------|---------|--------|-------|---------------|----------------------|
| 001 | 40 | Benzene | 06/09/2020 | GRAB | <0.25 | ug/L | Monthly Avg | 50(0) | 0.25 | 1.0 | N | 405132750 |
| 001 | 54 | BETX, Total | 06/09/2020 | GRAB | <1.5 | ug/L | Monthly Avg | 750(0) | | | N | 405132750 |
| 001 | 393 | PAHs | 06/09/2020 | GRAB | <0.016 | ug/L | Monthly Avg | 0.10(0) | | | N | 405132750 |
| 001 | 44 | Benzo(a)pyrene | 06/09/2020 | GRAB | <0.0097 | ug/L | Monthly Avg | 0.10(0) | 0.0097 | 0.048 | N | 405132750 |
| 001 | 307 | Naphthalene | 06/09/2020 | GRAB | <0.017 | ug/L | Monthly Avg | 70(0) | 0.017 | 0.084 | N | 405132750 |
| 001 | 80 | Bromoform | 06/09/2020 | GRAB | <4.0 | ug/L | Monthly Avg | 120(0) | 4.0 | 13.2 | N | 405132750 |
| 001 | 93 | Carbon tetrachloride | 06/09/2020 | GRAB | <1.1 | ug/L | | **** | 1.1 | 3.6 | N | 405132750 |
| 001 | 118 | Chloroform | 06/09/2020 | GRAB | <1.3 | ug/L | Monthly Avg | 120(0) | 1.3 | 5.0 | N | 405132750 |
| 001 | 174 | Dichlorobromo- methane (bromo- | 06/09/2020 | GRAB | <0.36 | ug/L | Monthly Avg | 120(0) | 0.36 | 1.2 | N | 405132750 |
| 001 | 570 | 1,2-Dichloro- ethane | 06/09/2020 | GRAB | <0.28 | ug/L | Monthly Avg | 180(0) | 0.28 | 1.0 | N | 405132750 |
| 001 | 558 | 1,1-Dichloro- ethylene | 06/09/2020 | GRAB | <0.24 | ug/L | Monthly Avg | 50(0) | 0.24 | 1.0 | N | 405132750 |
| 001 | 82 | Methyl bromide | 06/09/2020 | GRAB | <0.97 | ug/L | Monthly Avg | 120(0) | 0.97 | 5.0 | N | 405132750 |
| 001 | 120 | Chloromethane | 06/09/2020 | GRAB | <2.2 | ug/L | Monthly Avg | 120(0) | 2.2 | 7.3 | N | 405132750 |
| 001 | 565 | 1,1,2,2-Tetrachloro- ethane | 06/09/2020 | GRAB | <0.28 | ug/L | Monthly Avg | 50(0) | 0.28 | 1.0 | N | 405132750 |
| 001 | 490 | Tetrachloroethylene | 06/09/2020 | GRAB | 10.2 | ug/L | Monthly Avg | 50(0) | 0.33 | 1.1 | N | 405132750 |
| 001 | 563 | 1,1,2-Trichloro- ethane | 06/09/2020 | GRAB | <0.55 | ug/L | Monthly Avg | 50(0) | 0.55 | 5.0 | N | 405132750 |
| 001 | 561 | 1,1,1-Trichloro- ethane | 06/09/2020 | GRAB | <0.24 | ug/L | Monthly Avg | 50(0) | 0.24 | 1.0 | N | 405132750 |
| 001 | 508 | Trichloro- ethylene | 06/09/2020 | GRAB | 2.0 | ug/L | Monthly Avg | 50(0) | 0.26 | 1.0 | N | 405132750 |
| 001 | 517 | Vinyl chloride | 06/09/2020 | GRAB | <0.17 | ug/L | Monthly Avg | 10(0) | 0.17 | 1.0 | N | 405132750 |

Wastewater Discharge Monitoring Form

Facility Name: MADISON KIPP CORPORATION Reporting Period: 04/01/2020 to 06/30/2020

Permit: 0046566 DOC: 447471

| Wastewater Discharge Monitoring Short Report |
|---|
| Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.) |
| |
| |
| |
| |
| |
| General Remarks |
| Permanganate: Absent (Parameter visually monitored by TRC for neutralization and photo documentation can be provided upon request). |
| No BTEX or PAH parameters were reported above the laboratory LOD. The parameter for each group with highest detection limit was reported. |
| |
| |
| |
| Laboratory Quality Control Comments |
| |
| |
| |
| |
| |

Submitted by astehn on 07/20/2020 8:04:11 PM

Permit: 0046566 DOC: 447471

Wastewater Discharge Monitoring Long Report

Facility Name: MADISON KIPP CORPORATION Contact Address: 708 Heartland Trail, Suite 3000

Madison, WI 53717

Facility Contact: Andrew Stehn, Project Engineer

Phone Number: 608-826-3665

Reporting Period: 06/01/2020 - 06/30/2020

Form Due Date: 07/21/2020 Permit Number: 0046566

For DNR Use Only

Date Received:

DOC: 447862 FIN: 7960

FID: 113125320

Region: South Central Region

Permit Drafter: Trevor J Moen

Reviewer: Christopher A Dietrich

Office: Milwaukee

| | Sample Point | 001 | 001 | 001 |
|----------------|--------------|---------------|---------------|-------------------|
| | Description | Surface Water | Surface Water | Surface Water |
| | | Discharge | Discharge | Discharge |
| | | | | |
| | Parameter | 211 | 918 | 457 |
| | Description | Flow Rate | Potassium | Suspended Solids, |
| | | | Permanganate | Total |
| | Units | gpd | mg/L | mg/L |
| | Sample Type | ESTIMATED | GRAB | GRAB |
| | | | | |
| | Frequency | DAILY | MONTHLY | PER OCCURNCE |
| Sample Results | Day 1 | 57600 | | |
| | 2 | 53520 | | |
| | 3 | 0 | | |
| | 4 | 25535 | | |
| | 5 | 57600 | | |
| | 6 | 57600 | | |
| | 7 | 57600 | | |
| | 8 | 57600 | | |
| | 9 | 45929 | | <0.95 |
| | 10 | 57600 | | |
| | 11 | 57600 | | |
| | 12 | 57600 | | |
| | 13 | 57600 | | |
| | 14 | 57600 | | |
| | 15 | 57600 | | |
| | 16 | 57600 | | |
| | 17 | 57600 | | |
| | 18 | 57600 | | |
| | 19 | 57600 | | |
| | 20 | 57600 | | |
| | 21 | 57600 | | |
| | 22 | 57600 | | |
| | 23 | 57600 | | |
| | 24 | 57600 | | |
| | 25 | 57600 | | |
| | 26 | 57600 | | |
| | 27 | 57600 | | |
| | 28 | 57600 | | |
| | 29 | 57600 | | |
| | 30 | 57600 | | |
| | 31 | | | |
| | | | l . | 1 |

Reporting Period: 06/01/2020 to 06/30/2020

| | Sample Point | 001 | | 001 | 001 |
|-----------------------|----------------------|----------------------------|----|----------------------------|----------------------------|
| | Description | Surface Water Discharge | | Surface Water Discharge | Surface Water Discharge |
| | Parameter | 211 | | 918 | 457 |
| | Description | Flow Rate | | Potassium Permanganate | Suspended Solids, Total |
| | Units | gpd | | mg/L | mg/L |
| Summary Values | Monthly Avg | 54086.1333333 | 33 | | 0 |
| | Daily Max | 57600 | | | <0.95 |
| | Daily Min | 0 | | | <0.95 |
| Limit(s) in Effect | Daily Max | | | | 40 0 |
| QA/QC Information | LOD | | | • | 0.95 |
| | LOQ | | | | 2 |
| | QC Exceedance | N | | N | N |
| | Lab Certification | | | | 405132750 |

Permit: 0046566

DOC: 447862

| Footnotes (DNR Use Only; Instructions for completing this form that are unique for your facility may be displayed here.) |
|---|
| |
| |
| |
| |
| General Remarks |
| Permanganate: Absent (Parameter visually monitored by MKC for neutralization and photo documentation can be provided upon request). |
| The GETS was shutdown between the evening of June 2, 2020 to June 4, 2020 due to a power outage and replacement of a high level sensor for the air stripper unit. |
| The GETS was shutdown on June 9, 2020 for a period of time to complete a scheduled cleaning of the air stripper unit and restarted following. |
| A TSS sample was collected following the system restart on June 9, 2020. |
| Laboratory Quality Control Comments |
| |
| |
| |
| |
| |

Permit: 0046566

DOC: 447862

Submitted by astehn on 07/20/2020 8:17:46 PM

Attachment 4

Quarterly GETS Influent and Effluent Groundwater and Vapor Laboratory Analytical Results



6/24/2020 Mr. Andrew Stehn TRC Corporation (RMT) 708 Heartland Trail Suite 3000 Madison WI 53717

Project Name: GETS-MKC Project #: 372148.0000.0000

Workorder #: 2006302

Dear Mr. Andrew Stehn

The following report includes the data for the above referenced project for sample(s) received on 6/11/2020 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager



WORK ORDER #: 2006302

Work Order Summary

CLIENT: **BILL TO:** Mr. Andrew Stehn Accounts Payable/Windsor

> TRC Companies, Inc. TRC Companies, Inc. 708 Heartland Trail 21 Griffin Rd North **Suite 3000** Windsor, CT 06095

Madison, WI 53717

PHONE: 608-826-3665 P.O. # 149660

FAX: 608-826-3941 PROJECT # 372148.0000.0000 GETS-MKC

DATE RECEIVED: 06/11/2020 **CONTACT:** Ausha Scott

DATE COMPLETED: 06/24/2020

| | | | RECEIPT | FINAL |
|------------|-------------|-------|------------|-----------------|
| FRACTION # | <u>NAME</u> | TEST | VAC./PRES. | PRESSURE |
| 01A | Influent | TO-15 | 4.5 "Hg | 15.2 psi |
| 02A | Effluent | TO-15 | 5.7 "Hg | 15.1 psi |
| 03A | Lab Blank | TO-15 | NA | NA |
| 04A | CCV | TO-15 | NA | NA |
| 05A | LCS | TO-15 | NA | NA |
| 05AA | LCSD | TO-15 | NA | NA |
| | | | | |

| | Meide Mayer | |
|---------------|-------------|----------------|
| CERTIFIED BY: | 0 00 | DATE: 06/24/20 |

Technical Director

Certification numbers: AZ Licensure AZ0775, FL NELAP - E87680, LA NELAP - 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP - CA009332019-11, VA NELAP - 460197, WA NELAP - C935

> Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005-011, Effective date: 10/18/2019, Expiration date: 10/17/2020.

Eurofins Air Toxics, LLC certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.



LABORATORY NARRATIVE EPA Method TO-15 TRC Corporation (RMT) Workorder# 2006302

Two 1 Liter Summa Canister samples were received on June 11, 2020. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample Influent due to the presence of high level target species.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
 - J Estimated value.
 - E Exceeds instrument calibration range.
 - S Saturated peak.
 - Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
 - UJ- Non-detected compound associated with low bias in the CCV
 - N The identification is based on presumptive evidence.
 - M Reported value may be biased due to apparent matrix interferences.
 - CN See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: Influent Lab ID#: 2006302-01A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------------------|----------------------|------------------|-----------------------|-------------------|
| cis-1,2-Dichloroethene | 9.6 | 830 | 38 | 3300 |
| Chloroform | 9.6 | 18 | 47 | 86 |
| Trichloroethene | 9.6 | 560 | 51 | 3000 |
| Toluene | 9.6 | 18 | 36 | 69 |
| Tetrachloroethene | 9.6 | 2800 | 65 | 19000 |

Client Sample ID: Effluent

Lab ID#: 2006302-02A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------------------|----------------------|------------------|-----------------------|-------------------|
| Vinyl Chloride | 1.2 | 6.3 | 3.2 | 16 |
| cis-1,2-Dichloroethene | 1.2 | 240 | 5.0 | 960 |
| Trichloroethene | 1.2 | 32 | 6.7 | 170 |
| Tetrachloroethene | 1.2 | 200 | 8.5 | 1300 |



Client Sample ID: Influent Lab ID#: 2006302-01A

EPA METHOD TO-15 GC/MS FULL SCAN

| File Name: | j061533 | Date of Collection: 6/9/20 9:25:00 AM |
|--------------|---------|---------------------------------------|
| Dil. Factor: | 19.1 | Date of Analysis: 6/16/20 04:53 AM |

| Dil. Factor: | 19.1 | Date | of Analysis: 6/16 | /20 04:53 AM |
|---------------------------|----------------------|------------------|-----------------------|-------------------|
| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
| Freon 12 | 9.6 | Not Detected | 47 | Not Detected |
| Freon 114 | 9.6 | Not Detected | 67 | Not Detected |
| Chloromethane | 96 | Not Detected | 200 | Not Detected |
| Vinyl Chloride | 9.6 | Not Detected | 24 | Not Detected |
| Bromomethane | 96 | Not Detected | 370 | Not Detected |
| Chloroethane | 38 | Not Detected | 100 | Not Detected |
| Freon 11 | 9.6 | Not Detected | 54 | Not Detected |
| Freon 113 | 9.6 | Not Detected | 73 | Not Detected |
| 1,1-Dichloroethene | 9.6 | Not Detected | 38 | Not Detected |
| Methylene Chloride | 96 | Not Detected | 330 | Not Detected |
| Methyl tert-butyl ether | 38 | Not Detected | 140 | Not Detected |
| 1,1-Dichloroethane | 9.6 | Not Detected | 39 | Not Detected |
| cis-1,2-Dichloroethene | 9.6 | 830 | 38 | 3300 |
| Chloroform | 9.6 | 18 | 47 | 86 |
| 1,1,1-Trichloroethane | 9.6 | Not Detected | 52 | Not Detected |
| Carbon Tetrachloride | 9.6 | Not Detected | 60 | Not Detected |
| Benzene | 9.6 | Not Detected | 30 | Not Detected |
| 1,2-Dichloroethane | 9.6 | Not Detected | 39 | Not Detected |
| Trichloroethene | 9.6 | 560 | 51 | 3000 |
| 1,2-Dichloropropane | 9.6 | Not Detected | 44 | Not Detected |
| cis-1,3-Dichloropropene | 9.6 | Not Detected | 43 | Not Detected |
| Toluene | 9.6 | 18 | 36 | 69 |
| trans-1,3-Dichloropropene | 9.6 | Not Detected | 43 | Not Detected |
| 1,1,2-Trichloroethane | 9.6 | Not Detected | 52 | Not Detected |
| Tetrachloroethene | 9.6 | 2800 | 65 | 19000 |
| 1,2-Dibromoethane (EDB) | 9.6 | Not Detected | 73 | Not Detected |
| Chlorobenzene | 9.6 | Not Detected | 44 | Not Detected |
| Ethyl Benzene | 9.6 | Not Detected | 41 | Not Detected |
| m,p-Xylene | 9.6 | Not Detected | 41 | Not Detected |
| o-Xylene | 9.6 | Not Detected | 41 | Not Detected |
| Styrene | 9.6 | Not Detected | 41 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 9.6 | Not Detected | 66 | Not Detected |
| 1,3,5-Trimethylbenzene | 9.6 | Not Detected | 47 | Not Detected |
| 1,2,4-Trimethylbenzene | 9.6 | Not Detected | 47 | Not Detected |
| 1,3-Dichlorobenzene | 9.6 | Not Detected | 57 | Not Detected |
| 1,4-Dichlorobenzene | 9.6 | Not Detected | 57 | Not Detected |
| alpha-Chlorotoluene | 9.6 | Not Detected | 49 | Not Detected |
| 1,2-Dichlorobenzene | 9.6 | Not Detected | 57 | Not Detected |
| 1,2,4-Trichlorobenzene | 38 | Not Detected | 280 | Not Detected |
| Hexachlorobutadiene | 38 | Not Detected | 410 | Not Detected |
| | | | | |

Container Type: 1 Liter Summa Canister



Client Sample ID: Influent Lab ID#: 2006302-01A

EPA METHOD TO-15 GC/MS FULL SCAN

| File Name: | j061533 | Date of Collection: 6/9/20 9:25:00 AM |
|--------------|---------|---------------------------------------|
| Dil. Factor: | 19.1 | Date of Analysis: 6/16/20 04:53 AM |

| | | Method |
|-----------------------|-----------|--------|
| Surrogates | %Recovery | Limits |
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



Client Sample ID: Effluent Lab ID#: 2006302-02A

EPA METHOD TO-15 GC/MS FULL SCAN

 File Name:
 j061532
 Date of Collection: 6/9/20 9:37:00 AM

 Dil. Factor:
 2.50
 Date of Analysis: 6/16/20 04:28 AM

| Dil. Factor: | 2.50 | Date of Analysis: 6/16/20 04:28 Al | | 20 04:28 AM |
|---------------------------|------------|------------------------------------|------------|--------------|
| | Rpt. Limit | Amount | Rpt. Limit | Amount |
| Compound | (ppbv) | (ppbv) | (ug/m3) | (ug/m3) |
| Freon 12 | 1.2 | Not Detected | 6.2 | Not Detected |
| Freon 114 | 1.2 | Not Detected | 8.7 | Not Detected |
| Chloromethane | 12 | Not Detected | 26 | Not Detected |
| Vinyl Chloride | 1.2 | 6.3 | 3.2 | 16 |
| Bromomethane | 12 | Not Detected | 48 | Not Detected |
| Chloroethane | 5.0 | Not Detected | 13 | Not Detected |
| Freon 11 | 1.2 | Not Detected | 7.0 | Not Detected |
| Freon 113 | 1.2 | Not Detected | 9.6 | Not Detected |
| 1,1-Dichloroethene | 1.2 | Not Detected | 5.0 | Not Detected |
| Methylene Chloride | 12 | Not Detected | 43 | Not Detected |
| Methyl tert-butyl ether | 5.0 | Not Detected | 18 | Not Detected |
| 1,1-Dichloroethane | 1.2 | Not Detected | 5.0 | Not Detected |
| cis-1,2-Dichloroethene | 1.2 | 240 | 5.0 | 960 |
| Chloroform | 1.2 | Not Detected | 6.1 | Not Detected |
| 1,1,1-Trichloroethane | 1.2 | Not Detected | 6.8 | Not Detected |
| Carbon Tetrachloride | 1.2 | Not Detected | 7.9 | Not Detected |
| Benzene | 1.2 | Not Detected | 4.0 | Not Detected |
| 1,2-Dichloroethane | 1.2 | Not Detected | 5.0 | Not Detected |
| Trichloroethene | 1.2 | 32 | 6.7 | 170 |
| 1,2-Dichloropropane | 1.2 | Not Detected | 5.8 | Not Detected |
| cis-1,3-Dichloropropene | 1.2 | Not Detected | 5.7 | Not Detected |
| Toluene | 1.2 | Not Detected | 4.7 | Not Detected |
| trans-1,3-Dichloropropene | 1.2 | Not Detected | 5.7 | Not Detected |
| 1,1,2-Trichloroethane | 1.2 | Not Detected | 6.8 | Not Detected |
| Tetrachloroethene | 1.2 | 200 | 8.5 | 1300 |
| 1,2-Dibromoethane (EDB) | 1.2 | Not Detected | 9.6 | Not Detected |
| Chlorobenzene | 1.2 | Not Detected | 5.8 | Not Detected |
| Ethyl Benzene | 1.2 | Not Detected | 5.4 | Not Detected |
| m,p-Xylene | 1.2 | Not Detected | 5.4 | Not Detected |
| o-Xylene | 1.2 | Not Detected | 5.4 | Not Detected |
| Styrene | 1.2 | Not Detected | 5.3 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 1.2 | Not Detected | 8.6 | Not Detected |
| 1,3,5-Trimethylbenzene | 1.2 | Not Detected | 6.1 | Not Detected |
| 1,2,4-Trimethylbenzene | 1.2 | Not Detected | 6.1 | Not Detected |
| 1,3-Dichlorobenzene | 1.2 | Not Detected | 7.5 | Not Detected |
| 1,4-Dichlorobenzene | 1.2 | Not Detected | 7.5 | Not Detected |
| alpha-Chlorotoluene | 1.2 | Not Detected | 6.5 | Not Detected |
| 1,2-Dichlorobenzene | 1.2 | Not Detected | 7.5 | Not Detected |
| 1,2,4-Trichlorobenzene | 5.0 | Not Detected | 37 | Not Detected |
| Hexachlorobutadiene | 5.0 | Not Detected | 53 | Not Detected |

Container Type: 1 Liter Summa Canister



Client Sample ID: Effluent Lab ID#: 2006302-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: j061532 Date of Collection: 6/9/20 9:37:00 AM
Dil. Factor: 2.50 Date of Analysis: 6/16/20 04:28 AM

| 0/ 🖰 | Wethod |
|-----------|--------|
| %Recovery | Limits |
| 95 | 70-130 |
| 108 | 70-130 |
| 104 | 70-130 |
| | 108 |



Client Sample ID: Lab Blank Lab ID#: 2006302-03A

EPA METHOD TO-15 GC/MS FULL SCAN

| File Name: | j061508 | Dat | e of Collection: NA | |
|--------------|------------|------------------------------------|---------------------|------------|
| Dil. Factor: | 1.00 | Date of Analysis: 6/15/20 12:23 PM | | 0 12:23 PM |
| | Rpt. Limit | Amount | Rpt. Limit | Amount |
| Compound | (vdqq) | (vdqa) | (ua/m3) | (ua/m3) |

| Dil. Factor: | 1.00 | Date of Analysis: 6/15/20 12:23 PM | | 20 12:23 PM |
|---------------------------|------------|------------------------------------|------------|--------------|
| | Rpt. Limit | Amount | Rpt. Limit | Amount |
| Compound | (ppbv) | (ppbv) | (ug/m3) | (ug/m3) |
| Freon 12 | 0.50 | Not Detected | 2.5 | Not Detected |
| Freon 114 | 0.50 | Not Detected | 3.5 | Not Detected |
| Chloromethane | 5.0 | Not Detected | 10 | Not Detected |
| Vinyl Chloride | 0.50 | Not Detected | 1.3 | Not Detected |
| Bromomethane | 5.0 | Not Detected | 19 | Not Detected |
| Chloroethane | 2.0 | Not Detected | 5.3 | Not Detected |
| Freon 11 | 0.50 | Not Detected | 2.8 | Not Detected |
| Freon 113 | 0.50 | Not Detected | 3.8 | Not Detected |
| 1,1-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Methylene Chloride | 5.0 | Not Detected | 17 | Not Detected |
| Methyl tert-butyl ether | 2.0 | Not Detected | 7.2 | Not Detected |
| 1,1-Dichloroethane | 0.50 | Not Detected | 2.0 | Not Detected |
| cis-1,2-Dichloroethene | 0.50 | Not Detected | 2.0 | Not Detected |
| Chloroform | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,1,1-Trichloroethane | 0.50 | Not Detected | 2.7 | Not Detected |
| Carbon Tetrachloride | 0.50 | Not Detected | 3.1 | Not Detected |
| Benzene | 0.50 | Not Detected | 1.6 | Not Detected |
| 1,2-Dichloroethane | 0.50 | Not Detected | 2.0 | Not Detected |
| Trichloroethene | 0.50 | Not Detected | 2.7 | Not Detected |
| 1,2-Dichloropropane | 0.50 | Not Detected | 2.3 | Not Detected |
| cis-1,3-Dichloropropene | 0.50 | Not Detected | 2.3 | Not Detected |
| Toluene | 0.50 | Not Detected | 1.9 | Not Detected |
| trans-1,3-Dichloropropene | 0.50 | Not Detected | 2.3 | Not Detected |
| 1,1,2-Trichloroethane | 0.50 | Not Detected | 2.7 | Not Detected |
| Tetrachloroethene | 0.50 | Not Detected | 3.4 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.50 | Not Detected | 3.8 | Not Detected |
| Chlorobenzene | 0.50 | Not Detected | 2.3 | Not Detected |
| Ethyl Benzene | 0.50 | Not Detected | 2.2 | Not Detected |
| m,p-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| o-Xylene | 0.50 | Not Detected | 2.2 | Not Detected |
| Styrene | 0.50 | Not Detected | 2.1 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.50 | Not Detected | 3.4 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.50 | Not Detected | 2.4 | Not Detected |
| 1,3-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| 1,4-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| alpha-Chlorotoluene | 0.50 | Not Detected | 2.6 | Not Detected |
| 1,2-Dichlorobenzene | 0.50 | Not Detected | 3.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 2.0 | Not Detected | 15 | Not Detected |
| Hexachlorobutadiene | 2.0 | Not Detected | 21 | Not Detected |

Container Type: NA - Not Applicable



Client Sample ID: Lab Blank Lab ID#: 2006302-03A

EPA METHOD TO-15 GC/MS FULL SCAN

| File Name: | j061508 | Date of Collection: NA |
|--------------|---------|------------------------------------|
| Dil. Factor: | 1.00 | Date of Analysis: 6/15/20 12:23 PM |

| | | Method | |
|-----------------------|-----------|--------|--|
| Surrogates | %Recovery | Limits | |
| Toluene-d8 | 99 | 70-130 | |
| 1,2-Dichloroethane-d4 | 107 | 70-130 | |
| 4-Bromofluorobenzene | 101 | 70-130 | |



Client Sample ID: CCV Lab ID#: 2006302-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: j061502 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 6/15/20 09:52 AM

| Compound | %Recovery |
|---------------------------|-----------|
| Freon 12 | 117 |
| Freon 114 | 107 |
| Chloromethane | 72 |
| Vinyl Chloride | 90 |
| Bromomethane | 104 |
| Chloroethane | 88 |
| Freon 11 | 115 |
| Freon 113 | 107 |
| 1,1-Dichloroethene | 102 |
| Methylene Chloride | 86 |
| Methyl tert-butyl ether | 118 |
| 1,1-Dichloroethane | 97 |
| cis-1,2-Dichloroethene | 104 |
| Chloroform | 103 |
| 1,1,1-Trichloroethane | 112 |
| Carbon Tetrachloride | 116 |
| Benzene | 93 |
| 1,2-Dichloroethane | 100 |
| Trichloroethene | 94 |
| 1,2-Dichloropropane | 87 |
| cis-1,3-Dichloropropene | 99 |
| Toluene | 97 |
| trans-1,3-Dichloropropene | 110 |
| 1,1,2-Trichloroethane | 92 |
| Tetrachloroethene | 107 |
| 1,2-Dibromoethane (EDB) | 100 |
| Chlorobenzene | 101 |
| Ethyl Benzene | 112 |
| m,p-Xylene | 116 |
| o-Xylene | 117 |
| Styrene | 118 |
| 1,1,2,2-Tetrachloroethane | 87 |
| 1,3,5-Trimethylbenzene | 122 |
| 1,2,4-Trimethylbenzene | 122 |
| 1,3-Dichlorobenzene | 114 |
| 1,4-Dichlorobenzene | 118 |
| alpha-Chlorotoluene | 122 |
| 1,2-Dichlorobenzene | 116 |
| 1,2,4-Trichlorobenzene | 125 |
| Hexachlorobutadiene | 123 |
| | |

Container Type: NA - Not Applicable



Client Sample ID: CCV Lab ID#: 2006302-04A

EPA METHOD TO-15 GC/MS FULL SCAN

| File Name: | j061502 | Date of Collection: NA |
|--------------|---------|------------------------------------|
| Dil. Factor: | 1.00 | Date of Analysis: 6/15/20 09:52 AM |

| | | Method | |
|-----------------------|-----------|--------|--|
| Surrogates | %Recovery | Limits | |
| Toluene-d8 | 97 | 70-130 | |
| 1,2-Dichloroethane-d4 | 104 | 70-130 | |
| 4-Bromofluorobenzene | 117 | 70-130 | |



Client Sample ID: LCS Lab ID#: 2006302-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: j061503 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 6/15/20 10:17 AM

| | | Method |
|---------------------------|-----------|--------|
| Compound | %Recovery | Limits |
| Freon 12 | 121 | 70-130 |
| Freon 114 | 109 | 70-130 |
| Chloromethane | 80 | 70-130 |
| Vinyl Chloride | 93 | 70-130 |
| Bromomethane | 114 | 70-130 |
| Chloroethane | 93 | 70-130 |
| Freon 11 | 118 | 70-130 |
| Freon 113 | 106 | 70-130 |
| 1,1-Dichloroethene | 108 | 70-130 |
| Methylene Chloride | 88 | 70-130 |
| Methyl tert-butyl ether | 121 | 70-130 |
| 1,1-Dichloroethane | 96 | 70-130 |
| cis-1,2-Dichloroethene | 97 | 70-130 |
| Chloroform | 104 | 70-130 |
| 1,1,1-Trichloroethane | 118 | 70-130 |
| Carbon Tetrachloride | 118 | 70-130 |
| Benzene | 88 | 70-130 |
| 1,2-Dichloroethane | 97 | 70-130 |
| Trichloroethene | 92 | 70-130 |
| 1,2-Dichloropropane | 83 | 70-130 |
| cis-1,3-Dichloropropene | 103 | 70-130 |
| Toluene | 93 | 70-130 |
| trans-1,3-Dichloropropene | 108 | 70-130 |
| 1,1,2-Trichloroethane | 91 | 70-130 |
| Tetrachloroethene | 100 | 70-130 |
| 1,2-Dibromoethane (EDB) | 96 | 70-130 |
| Chlorobenzene | 95 | 70-130 |
| Ethyl Benzene | 108 | 70-130 |
| m,p-Xylene | 112 | 70-130 |
| o-Xylene | 113 | 70-130 |
| Styrene | 115 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 84 | 70-130 |
| 1,3,5-Trimethylbenzene | 118 | 70-130 |
| 1,2,4-Trimethylbenzene | 121 | 70-130 |
| 1,3-Dichlorobenzene | 109 | 70-130 |
| 1,4-Dichlorobenzene | 116 | 70-130 |
| alpha-Chlorotoluene | 128 | 70-130 |
| 1,2-Dichlorobenzene | 110 | 70-130 |
| 1,2,4-Trichlorobenzene | 112 | 70-130 |
| Hexachlorobutadiene | 114 | 70-130 |

Container Type: NA - Not Applicable



Client Sample ID: LCS Lab ID#: 2006302-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: j061503 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 6/15/20 10:17 AM

| | | Metriou | |
|-----------------------|-----------|---------|--|
| Surrogates | %Recovery | Limits | |
| Toluene-d8 | 99 | 70-130 | |
| 1,2-Dichloroethane-d4 | 111 | 70-130 | |
| 4-Bromofluorobenzene | 115 | 70-130 | |



Client Sample ID: LCSD Lab ID#: 2006302-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name: j061504 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 6/15/20 10:42 AM

| | | Method |
|---------------------------|-----------|--------|
| Compound | %Recovery | Limits |
| Freon 12 | 117 | 70-130 |
| Freon 114 | 106 | 70-130 |
| Chloromethane | 72 | 70-130 |
| Vinyl Chloride | 89 | 70-130 |
| Bromomethane | 110 | 70-130 |
| Chloroethane | 90 | 70-130 |
| Freon 11 | 115 | 70-130 |
| Freon 113 | 103 | 70-130 |
| 1,1-Dichloroethene | 102 | 70-130 |
| Methylene Chloride | 86 | 70-130 |
| Methyl tert-butyl ether | 118 | 70-130 |
| 1,1-Dichloroethane | 93 | 70-130 |
| cis-1,2-Dichloroethene | 95 | 70-130 |
| Chloroform | 99 | 70-130 |
| 1,1,1-Trichloroethane | 113 | 70-130 |
| Carbon Tetrachloride | 115 | 70-130 |
| Benzene | 90 | 70-130 |
| 1,2-Dichloroethane | 100 | 70-130 |
| Trichloroethene | 94 | 70-130 |
| 1,2-Dichloropropane | 80 | 70-130 |
| cis-1,3-Dichloropropene | 105 | 70-130 |
| Toluene | 95 | 70-130 |
| trans-1,3-Dichloropropene | 109 | 70-130 |
| 1,1,2-Trichloroethane | 88 | 70-130 |
| Tetrachloroethene | 100 | 70-130 |
| 1,2-Dibromoethane (EDB) | 95 | 70-130 |
| Chlorobenzene | 95 | 70-130 |
| Ethyl Benzene | 107 | 70-130 |
| m,p-Xylene | 111 | 70-130 |
| o-Xylene | 114 | 70-130 |
| Styrene | 114 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 83 | 70-130 |
| 1,3,5-Trimethylbenzene | 116 | 70-130 |
| 1,2,4-Trimethylbenzene | 120 | 70-130 |
| 1,3-Dichlorobenzene | 110 | 70-130 |
| 1,4-Dichlorobenzene | 117 | 70-130 |
| alpha-Chlorotoluene | 126 | 70-130 |
| 1,2-Dichlorobenzene | 109 | 70-130 |
| 1,2,4-Trichlorobenzene | 113 | 70-130 |
| Hexachlorobutadiene | 113 | 70-130 |

Container Type: NA - Not Applicable



Client Sample ID: LCSD Lab ID#: 2006302-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

| File Name: | j061504 | Date of Collection: NA |
|--------------|---------|------------------------------------|
| Dil. Factor: | 1.00 | Date of Analysis: 6/15/20 10:42 AM |

| | | Method |
|-----------------------|-----------|--------|
| Surrogates | %Recovery | Limits |
| Toluene-d8 | 100 | 70-130 |
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| 4-Bromofluorobenzene | 116 | 70-130 |



Analysis Request /Canister Chain of Custody

For Laboratory Use Only

| 180 Blue Ravine Rd. Suite B, Folsom, CA 95 | PID: | Workord | er#: | , | | | | | | | | | | | |
|---|---------------------------------|-----------------------|------------------|--|------------------|-----------------|---|--|------------|--|--|------------------------|----------|--|--|
| Phone (800) 985-5955; Fax (916) 351-8279 | 030 | | | | 2006 | 302 | | | | | | | | | |
| Client: 31R TRE MKC | | Special In | nstructions/Not | toe | 2000 | 1002 | | | | pageof | | | | | |
| Project Name: GETS - MKC | 7 | - Poolar II | 13d detions/140i | .65. | | | Turnaround Time (Rush surcharges may apply) | | | | | | | | |
| Project Manager: And Stehn | Project # 770 | 148 | | 1 | 49660 | ÷ | \$ | idard | X | Rush | | (st | pecify) | | |
| Sampler: | Project # 372 - Phase 2 Task | 110,000,000 | () | 7半。 | 49660 37 93 | 7 | C | Canister | Vacuum/ | um/Pressure | | quested | Analyses | | |
| Site Name: | - Phase 2 Task | , 2 | PC | / + | 3/73 | } 7 | | | Lal | b Use Only | | | | | |
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| Lab Field Sample Identification(Location) | Can # | Flow | Start S | ampling | | ampling | Ĭ | H _G | |) H, | 7 | | | | |
| lb / www.cood.com/ | Call# | Controller # | Information | | Information | | Initial (in Hg) | Final (in Hg) | Receipt | Final (psig) Gas: N ₂ / He | O | | | | |
| 014 Inflient | 120070 | | Date | Time | Date | Time |) jij | Fine | Rec | ina | 12 | | | | |
| 02A ESFluent | 11-2879 | 1913 | 6/9/20 | 9:24 | 6/9/20 | 9:25 | 730 | 40 | | | X | | | | |
| -87000 | 143059 | 1920 | 6/9/20 | 9:35 | 6/9/10 | 9:37 | 275 | | | | K | | | | |
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| Relinquished by: (Signature/Affiliation) | | | | | | | * | | | | | | | | |
| () ///////// | | Date 6/9/2 | Time | - | Received by: (| Signature/Affil | iati on) | | | Date | T | ime | | | |
| Relinquiet ed by: (Signature/Affiliation) | | <u>6/9/20</u> Date | - 111 | | <u> </u> | | \leftarrow | tTC | | 6/11/2 | | 090 | α | | |
| // ' | | Date | Time | Į, | Received by: (| Signature/Affil | iation) | ···· | | Date | | ime | 7) | | |
| રેકાંnquished by: (Signature/Affiliation) | | Date | Time | | Possing d has 16 | N. Jagery | | | | | | | | | |
| | _ | | 770 | 1 | Received by: (S | Signature/Affil | iation) | | C | Date | Т | ime | | | |
| ~ -0.07 | | | Lab U | Jse Only | | | THE STREET, CO. | Wilder Commission of the Commi | | | | | | | |
| Shipper Name: Ped & C | ustody Seals Intact? | Yes | | | | | | | | | | | | | |
| Sample Transportation Notice: Relinquishing signal any kind. Relinquishing signature also indicates agree | ture on this document in | idicates that sam | ples are shipp | ed in compliar | nce with all app | olicable local. | State Fe | deral an | d internal | tional laws | dati. | | | | |
| any kind. Relinquishing signature also indicates agree | unent to hold harmless, | | | | | n, demand, or | action, o | f any kind | J, related | to the collection | iations, i n. handli | and ordin no of ehi | ances of | | |
| | | sam | ples. D.O.T Ho | ліпе (800) 46 | 7-4922 | | | | | | -, ristron | g. UF 5111 | hhing or | | |





January 23, 2020

Andrew Stehn TRC Madison 708 Heartland Trail Madison, WI 53717

RE: Project: 372148 MADISON KIPP GETS

Pace Project No.: 40202062

Dear Andrew Stehn:

Enclosed are the analytical results for sample(s) received by the laboratory on January 16, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

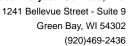
Tod nolteneya

Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436 Project Manager

Enclosures

cc: Peggy Popp, TRC - Madison







CERTIFICATIONS

Project: 372148 MADISON KIPP GETS

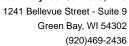
Pace Project No.: 40202062

Pace Analytical Services Green Bay

North Dakota Certification #: R-150

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



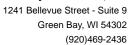


SAMPLE SUMMARY

Project: 372148 MADISON KIPP GETS

Pace Project No.: 40202062

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 40202062001 | EFFLUENT | Water | 01/14/20 15:15 | 01/16/20 09:15 |
| 40202062002 | INFLUENT | Water | 01/14/20 15:25 | 01/16/20 09:15 |



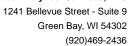


SAMPLE ANALYTE COUNT

Project: 372148 MADISON KIPP GETS

Pace Project No.: 40202062

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | | |
|-------------|-----------|----------|----------|----------------------|--|--|
| 40202062001 | EFFLUENT | SM 2540D | JXM | 1 | | |
| 40202062002 | INFLUENT | SM 2540D | JXM | 1 | | |





SUMMARY OF DETECTION

Project: 372148 MADISON KIPP GETS

Pace Project No.: 40202062

| Lab Sample ID | Client Sample ID | | | | | |
|---------------|------------------------|--------|-------|--------------|----------------|------------|
| Method | Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
| 40202062001 | EFFLUENT | | | | | |
| SM 2540D | Total Suspended Solids | 1.0J | mg/L | 2.0 | 01/20/20 11:04 | |



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: 372148 MADISON KIPP GETS

Pace Project No.: 40202062

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: TRC - MADISON

Date: January 23, 2020

General Information:

2 samples were analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

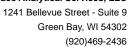
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.





ANALYTICAL RESULTS

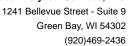
Project: 372148 MADISON KIPP GETS

Pace Project No.: 40202062

Date: 01/23/2020 09:14 AM

Sample: EFFLUENT Lab ID: 40202062001 Collected: 01/14/20 15:15 Received: 01/16/20 09:15 Matrix: Water

LOQ Parameters Results Units LOD DF Prepared CAS No. Analyzed Qual Analytical Method: SM 2540D 2540D Total Suspended Solids Total Suspended Solids 1.0J 01/20/20 11:04 mg/L 2.0 0.95





ANALYTICAL RESULTS

Project: 372148 MADISON KIPP GETS

Pace Project No.: 40202062

Date: 01/23/2020 09:14 AM

Sample: INFLUENT Lab ID: 40202062002 Collected: 01/14/20 15:25 Received: 01/16/20 09:15 Matrix: Water

LOQ Parameters Results Units LOD DF Prepared CAS No. Analyzed Qual Analytical Method: SM 2540D 2540D Total Suspended Solids Total Suspended Solids <0.95 01/20/20 11:04 mg/L 2.0 0.95



QUALITY CONTROL DATA

Project: 372148 MADISON KIPP GETS

Pace Project No.: 40202062

QC Batch: 345851 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 40202062001, 40202062002

METHOD BLANK: 2006690 Matrix: Water

Associated Lab Samples: 40202062001, 40202062002

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Suspended Solids mg/L <0.48 1.0 01/20/20 11:02

LABORATORY CONTROL SAMPLE: 2006691

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** mg/L 100 100 100 80-120

SAMPLE DUPLICATE: 2006692

40202049002 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 46.5 8 10 Total Suspended Solids 50.5 mg/L

SAMPLE DUPLICATE: 2006693

Date: 01/23/2020 09:14 AM

40202052005 Dup Max RPD RPD Parameter Units Result Result Qualifiers 87.5 Total Suspended Solids mg/L 87.5 0 10

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.

(920)469-2436



QUALIFIERS

Project: 372148 MADISON KIPP GETS

Pace Project No.: 40202062

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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

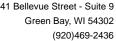
U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 01/23/2020 09:14 AM





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 372148 MADISON KIPP GETS

Pace Project No.: 40202062

Date: 01/23/2020 09:14 AM

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|---------------------|
| 40202062001 | EFFLUENT | SM 2540D | 345851 | | |
| 40202062002 | INFLUENT | SM 2540D | 345851 | | |

Pace Analytical - ECCS Division 2525 Advance Road Madison, WI 53718

CHAIN OF CUSTODY No. 10189

9: / 20(22 of 14

| A=Air S=Soil W=Water O=Other | J=NNU ₃ E=EnCore F=Mernanol G=NaOH O=Other (Indicate) Matrix Codes | Preservation Codes A=None B=HCL C=H ₂ SO ₄ | | | | | INPUENT | EFFLUENT | Sample Description | | ampled By (Print): Ben Wachholz | Rush, Report Due Date: | urn Around (check one): X Normal | roject Location (City, State): Madison, WI | inject Name: Madison Kipp GETS | roject Number: 372148 PO | | 608-221-4889 (fax) | /_ Pace Analytical Madison, WI 537 |
|------------------------------|--|---|--|--|---|----|----------------|-----------------|----------------------------|----------|---------------------------------|------------------------|----------------------------------|--|--------------------------------|---|--------------|--------------------------|------------------------------------|
| NA □ Intact □ Not Intact | Custody Seal: | | | | | | 1/14/2015:25 W | 1/14/20 15:15 W | Collection Date Time Matri | <u> </u> | | | Rush | | | PO Number: 372148 Ph, 2 TSK 2 | | ax) | 718 |
| | Shipped Via: Receipt Te | Date: Time: 1/ι Σ/20 1:4 Σ | | | | | X | X | | # of 0 | | iners | | A | Analyses Requested | 2 Preservation Codes | | Lab Work Order #: | No. IU189 |
| The months in Lab. Date. | Themometer #/ Exp Date: | Received By: | | | S | H. | . | | Comments | | Address 1: $q b_0 / 2$ | | Invoice To: | E-mail Address: astehn@trcompanies.com | Address 2: Madison, WI S3717 | Address 1: 708 Heartland Trail Suite 3000 | Company: TRC | Report To: Andrew Stoken | 89 Page: |
| Hev. 12/15 | Pate My Time: | Date: Time: | | | | | <u>Q</u> | 9 | Lab Lab Receipt ID Time | | | | | companies.com | 53717 | Tail Suite 3000 | | | of: |

Sample Preservation Receipt Form

Project #

All containers needing preservation have been checked and noted below: □Yes □No ★ I/A Lab Lot# of pH paper:

Client Name:

4020201E

Initial wher

Time

Date/

Pace Analytical Services, LL® 1241 Bellevue Street, Suite &

Green Bay, WI 54302

019 018 017 016 015 014 013 012 011 920 010 009 008 006 005 004 003 002 Pace Lab# 001 AG1U AG1H AG4S Glass AG4U AG5U AG2S BG3U BP1U BP2N BP2Z Plastic BP3U BP3B BP3N BP3S DG9A DG9T VG9U Vials Lab Std #ID of preservation (if pH adjusted) VG9H VG9M VG9D Headspace in VOA Vials (>6mm): □Yes □No NVA *If yes look in headspace column **JGFU** Jars WGFU WPFU SP5T General **ZPLC** GN VOA Vials (>6mm) H2SO4 pH ≤2 NaOH+Zn Act pH≥9 NaOH pH≥12 HNO3 pH ≤2 H after adjusted 2.5/5/10 2.5/5/102.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5/5/10 2.5/5/102.5 / 5 / 10 2.5 / 5 / 10 2.5/5/102.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5 / 5 / 10 2.5/5/10Volume (mL)

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other.

BPIU

liter plastic unpres

AG4S AGIH AGIU

125 mL amber glass H2SO4

BP3U BP2Z BP2N

250 mL plastic unpres 500 mL plastic NaOH, Znact

500 mL plastic HNO3

VG9U

DG9T

DG9A

VG9H

ВРЗВ

250 mL plastic NaOH

250 mL plastic H2SO4 250 mL plastic HNO3

I liter amber glass 1 liter amber glass HCL

AG5U 100 mL amber glass unpres AG4U 120 mL amber glass unpres

BG3U 250 mL clear glass unpres AG2S 500 mL amber glass H2SO²

> 40 mL clear vial unpres 40 mL amber Na Thio 40 mL clear vial HCL 40 mL clear vial MeOH 40 mL amber ascorbic WGFU WPFU SP5T JGFU 4 oz plastic jar unpres 4 oz clear jar unpres 4 oz amber jar unpres 120 mL plastic Na Thiosulfate

VG9M VG9D 40 mL clear vial DI ZPLC GN: 500 ML PLASTIC UNDES

Pace Analytical

1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-GB-C-031-Rev.07 Document Revised: 25Apr2018

Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

| Client Name: | | altco | 202062 | |
|---|---|--|---------------------------|-----------------------|
| Custody Seal on Samples Present: Tyes | | □ yes □ no | Stor bugs | • |
| Packing Material: ☐ Bubble Wrap ☐ B Thermometer Used SR - 46 | | | 7 | |
| | Type of Ice: (Wet) | blue Dry None | Samples on ice, coolir | ig process nas begun |
| | | issue is Frozen: 🦵 y | | |
| emp Blank Present: | Diological i | issue is i rozen. | Date: Initials | n examining contents: |
| Chain of Custody Present: | ≱Yes □No □N/A | 1. | | |
| Chain of Custody Filled Out: | Yes □No □N/A | 2. | | |
| Chain of Custody Relinquished: | X es □No □N/A | 3. - 1 | | |
| Sampler Name & Signature on COC: | □Yes □No ⊈A VA | 4. Ifeno !- | 16-20 BR | • |
| Samples Arrived within Hold Time: $1-162$ - VOA Samples frozen upon receipt | W → Ses → S | 5 | | |
| | □Yes 🔼No | Date/Time: | | |
| Short Hold Time Analysis (<72hr): Rush Turn Around Time Requested: | □Yes ⊠No | 7. | | |
| | Lifes Zino | | | <u>are Calabara.</u> |
| Sufficient Volume: For Analysis: ★ves □no MS/M | MSD: □Yes ⊠ No □N/A | 8. | | |
| Correct Containers Used: | XYes □No | 9 | | |
| -Pace Containers Used: | □Yes □No 🖊 NA | | | |
| -Pace IR Containers Used: | Yes 🗆 No 🗆 N/A | | | |
| Containers Intact: | ⊘ Yes □No | 10. | | |
| iltered volume received for Dissolved tests | □Yes □No ★WA | 11. | | |
| Sample Labels match COC: | ¥Yes □No □N/A | 12. | | |
| -Includes date/time/ID/Analysis Matrix:_ | W | e de la companya de l | | |
| rip Blank Present: | □Yes □No ⊠ Ñ/A | 13. | | |
| rip Blank Custody Seals Present | □Yes □No MA | | | |
| Pace Trip Blank Lot # (if purchased): | / ` | | | |
| Client Notification/ Resolution: | | If check | ked, see attached form fo | r additional comments |
| Person Contacted: | Date/ | Time: | | |
| Comments/ Resolution: | | | | |
| | | | | |
| | | | | <u> </u> |
| | | | | |





March 06, 2020

Andrew Stehn TRC Madison 708 Heartland Trail Madison, WI 53717

RE: Project: 372148 MKC GETS

Pace Project No.: 40204076

Dear Andrew Stehn:

Enclosed are the analytical results for sample(s) received by the laboratory on March 03, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

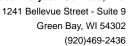
Tod noltemeyor

Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436 Project Manager

Enclosures

cc: Peggy Popp, TRC - Madison Ben Wachholz, TRC Madison







CERTIFICATIONS

Project: 372148 MKC GETS

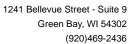
Pace Project No.: 40204076

Pace Analytical Services Green Bay

North Dakota Certification #: R-150

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



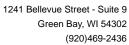


SAMPLE SUMMARY

Project: 372148 MKC GETS

Pace Project No.: 40204076

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | |
|-------------|------------|--------|----------------|----------------|--|
| 40204076001 | INFLUENT | Water | 03/02/20 10:05 | 03/03/20 09:15 | |
| 40204076002 | EFFLUENT | Water | 03/02/20 10:00 | 03/03/20 09:15 | |
| 40204076003 | TRIP BLANK | Water | 03/02/20 00:00 | 03/03/20 09:15 | |



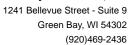


SAMPLE ANALYTE COUNT

Project: 372148 MKC GETS

Pace Project No.: 40204076

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|------------|-------------|----------|----------------------|
| 40204076001 | INFLUENT | EPA 625 SIM | TPO | 14 |
| | | EPA 624.1 | HNW | 21 |
| 40204076002 | EFFLUENT | EPA 625 SIM | TPO | 14 |
| | | EPA 624.1 | HNW | 21 |
| 40204076003 | TRIP BLANK | EPA 624.1 | HNW | 21 |





SUMMARY OF DETECTION

Project: 372148 MKC GETS

Pace Project No.: 40204076

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------------|-------------|--------------|--------------|----------------------------------|------------|
| 40204076001 | INFLUENT | | | | | |
| EPA 624.1 EPA 624.1 | Tetrachloroethene Trichloroethene | 1370 133 | ug/L ug/L | 21.8 20.0 | 03/05/20 14:10 03/05/20 14:10 | |
| 40204076002 | EFFLUENT | | | | | |
| EPA 624.1 EPA 624.1 | Tetrachloroethene Trichloroethene | 12.5 3.1 | ug/L ug/L | 1.1 1.0 | 03/05/20 14:31 03/05/20 14:31 | |

(920)469-2436



PROJECT NARRATIVE

Project: 372148 MKC GETS

Pace Project No.: 40204076

Method: EPA 625 SIM

Description: 625 MSSV PAH by SIM
Client: TRC - MADISON
Date: March 06, 2020

General Information:

2 samples were analyzed for EPA 625 SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 625 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

An MS / MSD pair was extracted with this batch, it is reported with a different analytical batch. The MS / MSD passed all laboratory limits.

• QC Batch: 349197



Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: 372148 MKC GETS

Pace Project No.: 40204076

Method: EPA 624.1

Description: 624.1 Volatile Organics
Client: TRC - MADISON
Date: March 06, 2020

General Information:

3 samples were analyzed for EPA 624.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project: 372148 MKC GETS

Pace Project No.: 40204076

Date: 03/06/2020 01:01 PM

| Sample: INFLUENT | Lab ID: 4020407 | 76001 Collecte | ed: 03/02/2 | 0 10:05 | Received: 03/ | 03/20 09:15 M | atrix: Water | |
|---------------------------|------------------------|----------------|-------------|-----------|----------------|----------------|--------------|-----|
| Parameters | Results Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qua |
| 625 MSSV PAH by SIM | Analytical Method: | EPA 625 SIM Pr | eparation M | 1ethod: I | EPA 625 | | | |
| Benzo(a)anthracene | <0.0069 ug/L | 0.035 | 0.0069 | 1 | 03/04/20 10:00 | 03/05/20 11:36 | 56-55-3 | |
| Benzo(a)pyrene | <0.0097 ug/L | 0.048 | 0.0097 | 1 | 03/04/20 10:00 | 03/05/20 11:36 | 50-32-8 | |
| Benzo(b)fluoranthene | <0.0053 ug/L | 0.026 | 0.0053 | 1 | 03/04/20 10:00 | 03/05/20 11:36 | 205-99-2 | |
| Benzo(g,h,i)perylene | <0.0062 ug/L | 0.031 | 0.0062 | 1 | 03/04/20 10:00 | 03/05/20 11:36 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0069 ug/L | 0.035 | 0.0069 | 1 | 03/04/20 10:00 | 03/05/20 11:36 | 207-08-9 | |
| Chrysene | <0.012 ug/L | 0.060 | 0.012 | 1 | 03/04/20 10:00 | 03/05/20 11:36 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0092 ug/L | 0.046 | 0.0092 | 1 | 03/04/20 10:00 | 03/05/20 11:36 | 53-70-3 | |
| Fluoranthene | <0.0098 ug/L | 0.049 | 0.0098 | 1 | 03/04/20 10:00 | 03/05/20 11:36 | 206-44-0 | |
| Indeno(1,2,3-cd)pyrene | <0.016 ug/L | 0.081 | 0.016 | 1 | 03/04/20 10:00 | 03/05/20 11:36 | 193-39-5 | |
| Naphthalene | <0.017 ug/L | 0.084 | 0.017 | 1 | 03/04/20 10:00 | 03/05/20 11:36 | | |
| Phenanthrene | <0.013 ug/L | 0.063 | 0.013 | 1 | 03/04/20 10:00 | 03/05/20 11:36 | | |
| Pyrene | <0.0070 ug/L | 0.035 | 0.0070 | 1 | 03/04/20 10:00 | 03/05/20 11:36 | | |
| Surrogates | 19.2 | | | • | | | | |
| 2-Fluorobiphenyl (S) | 50 % | 39-120 | | 1 | 03/04/20 10:00 | 03/05/20 11:36 | 321-60-8 | |
| Terphenyl-d14 (S) | 81 % | 10-159 | | 1 | 03/04/20 10:00 | 03/05/20 11:36 | 1718-51-0 | |
| 624.1 Volatile Organics | Analytical Method: | EPA 624.1 | | | | | | |
| Benzene | <4.9 ug/L | 20.0 | 4.9 | 20 | | 03/05/20 14:10 | 71-43-2 | |
| Bromodichloromethane | <7.3 ug/L | 24.2 | 7.3 | 20 | | 03/05/20 14:10 | 75-27-4 | |
| Bromoform | <79.4 ug/L | 265 | 79.4 | 20 | | 03/05/20 14:10 | 75-25-2 | |
| Bromomethane | <19.4 ug/L | 100 | 19.4 | 20 | | 03/05/20 14:10 | 74-83-9 | |
| Carbon tetrachloride | <3.3 ug/L | 20.0 | 3.3 | 20 | | 03/05/20 14:10 | | |
| Chloroform | <25.5 ug/L | 100 | 25.5 | 20 | | 03/05/20 14:10 | 67-66-3 | |
| Chloromethane | <43.8 ug/L | 146 | 43.8 | 20 | | 03/05/20 14:10 | | |
| 1,2-Dichloroethane | <5.6 ug/L | 20.0 | 5.6 | 20 | | 03/05/20 14:10 | | |
| 1,1-Dichloroethene | <4.9 ug/L | 20.0 | 4.9 | 20 | | 03/05/20 14:10 | | |
| Ethylbenzene | <4.4 ug/L | 20.0 | 4.4 | 20 | | 03/05/20 14:10 | | |
| 1,1,2,2-Tetrachloroethane | <5.5 ug/L | 20.0 | 5.5 | 20 | | 03/05/20 14:10 | | |
| Tetrachloroethene | 1370 ug/L | 21.8 | 6.5 | 20 | | 03/05/20 14:10 | | |
| Toluene | <3.4 ug/L | 100 | 3.4 | 20 | | 03/05/20 14:10 | | |
| 1,1,1-Trichloroethane | <4.9 ug/L | 20.0 | 4.9 | 20 | | 03/05/20 14:10 | | |
| 1,1,2-Trichloroethane | <11.0 ug/L | 100 | 11.0 | 20 | | 03/05/20 14:10 | | |
| Trichloroethene | 133 ug/L | 20.0 | 5.1 | 20 | | 03/05/20 14:10 | | |
| Vinyl chloride | <3.5 ug/L | 20.0 | 3.5 | 20 | | 03/05/20 14:10 | | |
| Xylene (Total) | <30.0 ug/L | 60.0 | 30.0 | 20 | | 03/05/20 14:10 | | |
| Surrogates | 100.0 ug/L | 00.0 | 50.0 | 20 | | 00/00/20 14.10 | 1000 20 7 | |
| Dibromofluoromethane (S) | 97 % | 70-130 | | 20 | | 03/05/20 14:10 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 88 % | 70-130 | | 20 | | 03/05/20 14:10 | | |
| Toluene-d8 (S) | 97 % | 70-130 | | 20 | | 03/05/20 14:10 | | |



Project: 372148 MKC GETS

Pace Project No.: 40204076

Date: 03/06/2020 01:01 PM

| Sample: EFFLUENT | Lab ID: 40 | 204076002 | Collected | d: 03/02/20 | 10:00 | Received: 03/ | 03/20 09:15 Ma | atrix: Water | |
|---------------------------|---------------|--------------|------------|-------------|----------|----------------|----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 625 MSSV PAH by SIM | Analytical Me | ethod: EPA 6 | 25 SIM Pre | paration M | ethod: I | EPA 625 | | | |
| Benzo(a)anthracene | <0.0071 | ug/L | 0.036 | 0.0071 | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 56-55-3 | |
| Benzo(a)pyrene | < 0.0099 | ug/L | 0.050 | 0.0099 | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 50-32-8 | |
| Benzo(b)fluoranthene | < 0.0054 | ug/L | 0.027 | 0.0054 | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 205-99-2 | |
| Benzo(g,h,i)perylene | < 0.0064 | ug/L | 0.032 | 0.0064 | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 191-24-2 | |
| Benzo(k)fluoranthene | <0.0071 | ug/L | 0.036 | 0.0071 | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 207-08-9 | |
| Chrysene | <0.012 | ug/L | 0.062 | 0.012 | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 218-01-9 | |
| Dibenz(a,h)anthracene | <0.0095 | ug/L | 0.047 | 0.0095 | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 53-70-3 | |
| Fluoranthene | <0.010 | ug/L | 0.050 | 0.010 | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 206-44-0 | |
| Indeno(1,2,3-cd)pyrene | <0.017 | ug/L | 0.083 | 0.017 | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 193-39-5 | |
| Naphthalene | <0.017 | ug/L | 0.086 | 0.017 | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 91-20-3 | |
| Phenanthrene | <0.013 | ug/L | 0.065 | 0.013 | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 85-01-8 | |
| Pyrene | < 0.0072 | ug/L | 0.036 | 0.0072 | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 129-00-0 | |
| Surrogates | | Ü | | | | | | | |
| 2-Fluorobiphenyl (S) | 49 | % | 39-120 | | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 321-60-8 | |
| Terphenyl-d14 (S) | 91 | % | 10-159 | | 1 | 03/04/20 10:00 | 03/05/20 11:53 | 1718-51-0 | |
| 624.1 Volatile Organics | Analytical Me | ethod: EPA 6 | 24.1 | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 03/05/20 14:31 | 71-43-2 | |
| Bromodichloromethane | < 0.36 | ug/L | 1.2 | 0.36 | 1 | | 03/05/20 14:31 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 03/05/20 14:31 | 75-25-2 | |
| Bromomethane | < 0.97 | ug/L | 5.0 | 0.97 | 1 | | 03/05/20 14:31 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 03/05/20 14:31 | 56-23-5 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/05/20 14:31 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 03/05/20 14:31 | 74-87-3 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/05/20 14:31 | | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/05/20 14:31 | 75-35-4 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 03/05/20 14:31 | 100-41-4 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/05/20 14:31 | 79-34-5 | |
| Tetrachloroethene | 12.5 | ug/L | 1.1 | 0.33 | 1 | | 03/05/20 14:31 | | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 03/05/20 14:31 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/05/20 14:31 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 03/05/20 14:31 | 79-00-5 | |
| Trichloroethene | 3.1 | ug/L | 1.0 | 0.26 | 1 | | 03/05/20 14:31 | | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 03/05/20 14:31 | | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 03/05/20 14:31 | | |
| Surrogates | | J. | | | | | | | |
| Dibromofluoromethane (S) | 103 | % | 70-130 | | 1 | | 03/05/20 14:31 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 89 | % | 70-130 | | 1 | | 03/05/20 14:31 | 460-00-4 | |
| Toluene-d8 (S) | 96 | % | 70-130 | | 1 | | 03/05/20 14:31 | 2037-26-5 | |



Project: 372148 MKC GETS

Pace Project No.: 40204076

Date: 03/06/2020 01:01 PM

| Sample: TRIP BLANK | Lab ID: | 40204076003 | Collected | l: 03/02/20 | 00:00 | Received: 03 | 3/03/20 09:15 M | atrix: Water | |
|---------------------------|------------|---------------|-----------|-------------|-------|--------------|-----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 624.1 Volatile Organics | Analytical | Method: EPA 6 | 24.1 | | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 03/04/20 17:21 | 71-43-2 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 03/04/20 17:21 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 03/04/20 17:21 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 03/04/20 17:21 | 74-83-9 | |
| Carbon tetrachloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 03/04/20 17:21 | 56-23-5 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 03/04/20 17:21 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 03/04/20 17:21 | 74-87-3 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/04/20 17:21 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/04/20 17:21 | 75-35-4 | |
| Ethylbenzene | <0.22 | ug/L | 1.0 | 0.22 | 1 | | 03/04/20 17:21 | 100-41-4 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 03/04/20 17:21 | 79-34-5 | |
| Tetrachloroethene | <0.33 | ug/L | 1.1 | 0.33 | 1 | | 03/04/20 17:21 | 127-18-4 | |
| Toluene | <0.17 | ug/L | 5.0 | 0.17 | 1 | | 03/04/20 17:21 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 03/04/20 17:21 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 03/04/20 17:21 | 79-00-5 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 03/04/20 17:21 | 79-01-6 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 03/04/20 17:21 | 75-01-4 | |
| Xylene (Total) Surrogates | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 03/04/20 17:21 | 1330-20-7 | |
| Dibromofluoromethane (S) | 102 | % | 70-130 | | 1 | | 03/04/20 17:21 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 88 | % | 70-130 | | 1 | | 03/04/20 17:21 | 460-00-4 | |
| Toluene-d8 (S) | 94 | % | 70-130 | | 1 | | 03/04/20 17:21 | | |



Project: 372148 MKC GETS

Pace Project No.: 40204076

Date: 03/06/2020 01:01 PM

QC Batch: 349084 Analysis Method: EPA 624.1
QC Batch Method: EPA 624.1 Analysis Description: 624.1 MSV

Associated Lab Samples: 40204076003

METHOD BLANK: 2022856 Matrix: Water

Associated Lab Samples: 40204076003

| | | Blank | Reporting | | |
|---------------------------|-------|--------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 03/04/20 09:07 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 1.0 | 03/04/20 09:07 | |
| 1,1,2-Trichloroethane | ug/L | < 0.55 | 5.0 | 03/04/20 09:07 | |
| 1,1-Dichloroethene | ug/L | <0.24 | 1.0 | 03/04/20 09:07 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 03/04/20 09:07 | |
| Benzene | ug/L | < 0.25 | 1.0 | 03/04/20 09:07 | |
| Bromodichloromethane | ug/L | < 0.36 | 1.2 | 03/04/20 09:07 | |
| Bromoform | ug/L | <4.0 | 13.2 | 03/04/20 09:07 | |
| Bromomethane | ug/L | < 0.97 | 5.0 | 03/04/20 09:07 | |
| Carbon tetrachloride | ug/L | <0.17 | 1.0 | 03/04/20 09:07 | |
| Chloroform | ug/L | <1.3 | 5.0 | 03/04/20 09:07 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 03/04/20 09:07 | |
| Ethylbenzene | ug/L | <0.22 | 1.0 | 03/04/20 09:07 | |
| Tetrachloroethene | ug/L | < 0.33 | 1.1 | 03/04/20 09:07 | |
| Toluene | ug/L | <0.17 | 5.0 | 03/04/20 09:07 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 03/04/20 09:07 | |
| Vinyl chloride | ug/L | <0.17 | 1.0 | 03/04/20 09:07 | |
| Xylene (Total) | ug/L | <1.5 | 3.0 | 03/04/20 09:07 | |
| 4-Bromofluorobenzene (S) | % | 96 | 70-130 | 03/04/20 09:07 | |
| Dibromofluoromethane (S) | % | 99 | 70-130 | 03/04/20 09:07 | |
| Toluene-d8 (S) | % | 100 | 70-130 | 03/04/20 09:07 | |

| LABORATORY CONTROL SAMPLE: | 2022857 | | | | | |
|----------------------------|---------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,1,1-Trichloroethane | ug/L | 50 | 50.5 | 101 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 45.9 | 92 | 60-140 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 48.2 | 96 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 50 | 44.9 | 90 | 50-150 | |
| ,2-Dichloroethane | ug/L | 50 | 48.5 | 97 | 70-130 | |
| Benzene | ug/L | 50 | 48.3 | 97 | 65-135 | |
| Bromodichloromethane | ug/L | 50 | 50.9 | 102 | 65-135 | |
| Bromoform | ug/L | 50 | 51.7 | 103 | 70-130 | |
| Bromomethane | ug/L | 50 | 57.4 | 115 | 15-185 | |
| Carbon tetrachloride | ug/L | 50 | 53.9 | 108 | 70-130 | |
| Chloroform | ug/L | 50 | 48.8 | 98 | 70-135 | |
| Chloromethane | ug/L | 50 | 39.6 | 79 | 10-200 | |
| Ethylbenzene | ug/L | 50 | 48.4 | 97 | 60-140 | |
| etrachloroethene | ug/L | 50 | 50.0 | 100 | 70-130 | |
| Toluene | ug/L | 50 | 46.9 | 94 | 70-130 | |

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.



Project: 372148 MKC GETS

Pace Project No.: 40204076

Date: 03/06/2020 01:01 PM

| LABORATORY CONTROL SAMPL | E: 2022857 | | | | | |
|--------------------------|------------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| Trichloroethene | ug/L | | 49.8 | 100 | 65-135 | |
| Vinyl chloride | ug/L | 50 | 45.3 | 91 | 10-195 | |
| Xylene (Total) | ug/L | 150 | 146 | 97 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 102 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 101 | 70-130 | |
| Toluene-d8 (S) | % | | | 100 | 70-130 | |

| MATRIX SPIKE & MATRIX SP | IKE DUPLIC | CATE: 2023 | 048 | | 2023049 | | | | | | | |
|---------------------------|------------|------------|-------|-------|---------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | 4 | 0204013001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| 1,1,1-Trichloroethane | ug/L | <1.0 | 50 | 50 | 51.7 | 53.6 | 103 | 107 | 52-162 | 4 | 36 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <1.0 | 50 | 50 | 47.2 | 52.7 | 94 | 105 | 46-157 | 11 | 50 | |
| 1,1,2-Trichloroethane | ug/L | <5.0 | 50 | 50 | 50.8 | 52.4 | 102 | 105 | 52-150 | 3 | 45 | |
| 1,1-Dichloroethene | ug/L | <1.0 | 50 | 50 | 46.3 | 46.4 | 93 | 93 | 10-200 | 0 | 32 | |
| 1,2-Dichloroethane | ug/L | <1.0 | 50 | 50 | 51.3 | 51.5 | 103 | 103 | 49-155 | 0 | 49 | |
| Benzene | ug/L | <1.0 | 50 | 50 | 49.9 | 52.5 | 100 | 105 | 37-151 | 5 | 50 | |
| Bromodichloromethane | ug/L | <1.2 | 50 | 50 | 51.7 | 54.3 | 103 | 109 | 35-155 | 5 | 50 | |
| Bromoform | ug/L | <13.2 | 50 | 50 | 51.1 | 55.3 | 102 | 111 | 45-169 | 8 | 42 | |
| Bromomethane | ug/L | <5.0 | 50 | 50 | 41.1 | 44.0 | 82 | 88 | 10-200 | 7 | 50 | |
| Carbon tetrachloride | ug/L | <1.0 | 50 | 50 | 56.8 | 58.2 | 114 | 116 | 70-140 | 2 | 41 | |
| Chloroform | ug/L | <5.0 | 50 | 50 | 50.4 | 53.1 | 101 | 106 | 51-138 | 5 | 50 | |
| Chloromethane | ug/L | <7.3 | 50 | 50 | 33.6 | 35.6 | 67 | 71 | 10-200 | 6 | 50 | |
| Ethylbenzene | ug/L | <1.0 | 50 | 50 | 51.7 | 53.3 | 103 | 107 | 37-162 | 3 | 20 | |
| Tetrachloroethene | ug/L | <1.1 | 50 | 50 | 49.3 | 51.8 | 99 | 104 | 64-148 | 5 | 39 | |
| Toluene | ug/L | < 5.0 | 50 | 50 | 49.3 | 50.2 | 99 | 100 | 47-150 | 2 | 41 | |
| Trichloroethene | ug/L | <1.0 | 50 | 50 | 53.1 | 53.1 | 106 | 106 | 70-157 | 0 | 48 | |
| Vinyl chloride | ug/L | <1.0 | 50 | 50 | 39.9 | 41.5 | 80 | 83 | 10-200 | 4 | 50 | |
| Xylene (Total) | ug/L | <3.0 | 150 | 150 | 155 | 158 | 103 | 105 | 70-130 | 2 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 101 | 103 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 100 | 102 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 96 | 98 | 70-130 | | | |

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.



Project: 372148 MKC GETS

Pace Project No.: 40204076

Date: 03/06/2020 01:01 PM

QC Batch: 349246 Analysis Method: EPA 624.1
QC Batch Method: EPA 624.1 Analysis Description: 624.1 MSV

Associated Lab Samples: 40204076001, 40204076002

METHOD BLANK: 2023493 Matrix: Water

Associated Lab Samples: 40204076001, 40204076002

| | | Blank | Reporting | | |
|---------------------------|-------|--------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 03/05/20 10:36 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 1.0 | 03/05/20 10:36 | |
| 1,1,2-Trichloroethane | ug/L | < 0.55 | 5.0 | 03/05/20 10:36 | |
| 1,1-Dichloroethene | ug/L | < 0.24 | 1.0 | 03/05/20 10:36 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 03/05/20 10:36 | |
| Benzene | ug/L | < 0.25 | 1.0 | 03/05/20 10:36 | |
| Bromodichloromethane | ug/L | < 0.36 | 1.2 | 03/05/20 10:36 | |
| Bromoform | ug/L | <4.0 | 13.2 | 03/05/20 10:36 | |
| Bromomethane | ug/L | < 0.97 | 5.0 | 03/05/20 10:36 | |
| Carbon tetrachloride | ug/L | <0.17 | 1.0 | 03/05/20 10:36 | |
| Chloroform | ug/L | <1.3 | 5.0 | 03/05/20 10:36 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 03/05/20 10:36 | |
| Ethylbenzene | ug/L | <0.22 | 1.0 | 03/05/20 10:36 | |
| Tetrachloroethene | ug/L | < 0.33 | 1.1 | 03/05/20 10:36 | |
| Toluene | ug/L | <0.17 | 5.0 | 03/05/20 10:36 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 03/05/20 10:36 | |
| Vinyl chloride | ug/L | <0.17 | 1.0 | 03/05/20 10:36 | |
| Xylene (Total) | ug/L | <1.5 | 3.0 | 03/05/20 10:36 | |
| 4-Bromofluorobenzene (S) | % | 89 | 70-130 | 03/05/20 10:36 | |
| Dibromofluoromethane (S) | % | 101 | 70-130 | 03/05/20 10:36 | |
| Toluene-d8 (S) | % | 94 | 70-130 | 03/05/20 10:36 | |

| LABORATORY CONTROL SAMPLE: | 2023494 | | | | | |
|----------------------------|---------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,1,1-Trichloroethane | ug/L | 50 | 49.6 | 99 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 45.0 | 90 | 60-140 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 48.6 | 97 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 50 | 43.2 | 86 | 50-150 | |
| 1,2-Dichloroethane | ug/L | 50 | 47.1 | 94 | 70-130 | |
| Benzene | ug/L | 50 | 47.9 | 96 | 65-135 | |
| Bromodichloromethane | ug/L | 50 | 50.5 | 101 | 65-135 | |
| Bromoform | ug/L | 50 | 55.4 | 111 | 70-130 | |
| Bromomethane | ug/L | 50 | 49.9 | 100 | 15-185 | |
| Carbon tetrachloride | ug/L | 50 | 54.2 | 108 | 70-130 | |
| Chloroform | ug/L | 50 | 47.8 | 96 | 70-135 | |
| Chloromethane | ug/L | 50 | 38.0 | 76 | 10-200 | |
| Ethylbenzene | ug/L | 50 | 49.4 | 99 | 60-140 | |
| Tetrachloroethene | ug/L | 50 | 50.9 | 102 | 70-130 | |
| Toluene | ug/L | 50 | 46.9 | 94 | 70-130 | |

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.



Project: 372148 MKC GETS

Pace Project No.: 40204076

Date: 03/06/2020 01:01 PM

| LABORATORY CONTROL SAMPI | LE: 2023494 | | | | | |
|--------------------------|-------------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| Trichloroethene | ug/L | | 48.6 | 97 | 65-135 | |
| Vinyl chloride | ug/L | 50 | 44.6 | 89 | 10-195 | |
| Xylene (Total) | ug/L | 150 | 149 | 99 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 101 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 98 | 70-130 | |
| Toluene-d8 (S) | % | | | 98 | 70-130 | |

| MATRIX SPIKE & MATRIX SP | IKE DUPLIC | CATE: 2023 | 526 | | 2023527 | | | | | | | |
|---------------------------|------------|------------|-------|-------|---------|--------|-------|-------|--------|-----|-----|------|
| | | | MS | MSD | | | | | | | | |
| | 4 | 0204129001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qual |
| 1,1,1-Trichloroethane | ug/L | 184 | 50 | 50 | 251 | 258 | 133 | 147 | 52-162 | 3 | 36 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <1.4 | 50 | 50 | 47.5 | 48.3 | 95 | 97 | 46-157 | 2 | 50 | |
| 1,1,2-Trichloroethane | ug/L | <2.8 | 50 | 50 | 49.8 | 50.9 | 100 | 102 | 52-150 | 2 | 45 | |
| 1,1-Dichloroethene | ug/L | 3.6J | 50 | 50 | 48.6 | 51.7 | 90 | 96 | 10-200 | 6 | 32 | |
| 1,2-Dichloroethane | ug/L | <1.4 | 50 | 50 | 50.2 | 52.6 | 100 | 105 | 49-155 | 4 | 49 | |
| Benzene | ug/L | <1.2 | 50 | 50 | 49.9 | 51.8 | 100 | 104 | 37-151 | 4 | 50 | |
| Bromodichloromethane | ug/L | <1.8 | 50 | 50 | 53.4 | 52.5 | 107 | 105 | 35-155 | 2 | 50 | |
| Bromoform | ug/L | <19.9 | 50 | 50 | 54.3 | 54.6 | 109 | 109 | 45-169 | 1 | 42 | |
| Bromomethane | ug/L | <4.9 | 50 | 50 | 45.3 | 45.9 | 91 | 92 | 10-200 | 1 | 50 | |
| Carbon tetrachloride | ug/L | <0.83 | 50 | 50 | 56.0 | 58.8 | 112 | 118 | 70-140 | 5 | 41 | |
| Chloroform | ug/L | <6.4 | 50 | 50 | 48.7 | 53.0 | 97 | 106 | 51-138 | 9 | 50 | |
| Chloromethane | ug/L | <10.9 | 50 | 50 | 41.6 | 42.2 | 83 | 84 | 10-200 | 2 | 50 | |
| Ethylbenzene | ug/L | <1.1 | 50 | 50 | 52.0 | 52.7 | 104 | 105 | 37-162 | 1 | 20 | |
| Tetrachloroethene | ug/L | <1.6 | 50 | 50 | 51.1 | 52.0 | 102 | 104 | 64-148 | 2 | 39 | |
| Toluene | ug/L | <0.86 | 50 | 50 | 49.8 | 50.4 | 100 | 101 | 47-150 | 1 | 41 | |
| Trichloroethene | ug/L | 60.8 | 50 | 50 | 118 | 118 | 114 | 114 | 70-157 | 0 | 48 | |
| Vinyl chloride | ug/L | 5.1 | 50 | 50 | 53.7 | 54.5 | 97 | 99 | 10-200 | 2 | 50 | |
| Xylene (Total) | ug/L | <7.5 | 150 | 150 | 157 | 157 | 104 | 105 | 70-130 | 0 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 104 | 100 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 97 | 101 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 95 | 95 | 70-130 | | | |

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.



Project: 372148 MKC GETS

Pace Project No.: 40204076

Date: 03/06/2020 01:01 PM

QC Batch: 349147 Analysis Method: EPA 625 SIM
QC Batch Method: EPA 625 Analysis Description: 625 Water PAH

Associated Lab Samples: 40204076001, 40204076002

METHOD BLANK: 2023061 Matrix: Water

Associated Lab Samples: 40204076001, 40204076002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|------------------------|-------|-----------------|--------------------|----------------|------------|
| Benzo(a)anthracene | ug/L | <0.0076 | 0.038 | 03/05/20 10:42 | |
| Benzo(a)pyrene | ug/L | < 0.011 | 0.053 | 03/05/20 10:42 | |
| Benzo(b)fluoranthene | ug/L | < 0.0057 | 0.029 | 03/05/20 10:42 | |
| Benzo(g,h,i)perylene | ug/L | <0.0068 | 0.034 | 03/05/20 10:42 | |
| Benzo(k)fluoranthene | ug/L | < 0.0076 | 0.038 | 03/05/20 10:42 | |
| Chrysene | ug/L | < 0.013 | 0.065 | 03/05/20 10:42 | |
| Dibenz(a,h)anthracene | ug/L | < 0.010 | 0.050 | 03/05/20 10:42 | |
| Fluoranthene | ug/L | < 0.011 | 0.053 | 03/05/20 10:42 | |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.018 | 0.088 | 03/05/20 10:42 | |
| Naphthalene | ug/L | <0.018 | 0.092 | 03/05/20 10:42 | |
| Phenanthrene | ug/L | < 0.014 | 0.069 | 03/05/20 10:42 | |
| Pyrene | ug/L | < 0.0076 | 0.038 | 03/05/20 10:42 | |
| 2-Fluorobiphenyl (S) | % | 64 | 39-120 | 03/05/20 10:42 | |
| Terphenyl-d14 (S) | % | 112 | 10-159 | 03/05/20 10:42 | |

| LABORATORY CONTROL SAMPLE: | 2023062 | | | | | |
|----------------------------|---------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| Benzo(a)anthracene | ug/L | | 1.7 | 84 | 47-118 | |
| Benzo(a)pyrene | ug/L | 2 | 2.0 | 100 | 70-120 | |
| Benzo(b)fluoranthene | ug/L | 2 | 1.7 | 84 | 54-97 | |
| Benzo(g,h,i)perylene | ug/L | 2 | 1.1 | 53 | 26-74 | |
| Benzo(k)fluoranthene | ug/L | 2 | 2.1 | 105 | 73-126 | |
| Chrysene | ug/L | 2 | 2.3 | 117 | 75-151 | |
| Dibenz(a,h)anthracene | ug/L | 2 | 0.93 | 47 | 13-72 | |
| Fluoranthene | ug/L | 2 | 1.8 | 89 | 63-120 | |
| Indeno(1,2,3-cd)pyrene | ug/L | 2 | 1.7 | 86 | 51-101 | |
| Naphthalene | ug/L | 2 | 1.2 | 60 | 41-120 | |
| Phenanthrene | ug/L | 2 | 1.5 | 75 | 47-100 | |
| Pyrene | ug/L | 2 | 2.0 | 100 | 70-128 | |
| 2-Fluorobiphenyl (S) | % | | | 64 | 39-120 | |
| Terphenyl-d14 (S) | % | | | 120 | 10-159 | |

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.



QUALIFIERS

Project: 372148 MKC GETS

Pace Project No.: 40204076

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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 at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

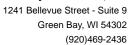
TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 349197

Date: 03/06/2020 01:01 PM

[1] An MS / MSD pair was extracted with this batch, it is reported with a different analytical batch. The MS / MSD passed all laboratory limits.





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 372148 MKC GETS

Pace Project No.: 40204076

Date: 03/06/2020 01:01 PM

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------|-----------------|----------|-------------------|---------------------|
| 40204076001 | INFLUENT | EPA 625 | 349147 | EPA 625 SIM | 349197 |
| 40204076002 | EFFLUENT | EPA 625 | 349147 | EPA 625 SIM | 349197 |
| 40204076001 | INFLUENT | EPA 624.1 | 349246 | | |
| 40204076002 | EFFLUENT | EPA 624.1 | 349246 | | |
| 40204076003 | TRIP BLANK | EPA 624.1 | 349084 | | |

| | (Please Print Clearly) | |] | | 一 | | | | | | 35 Sec. 32 97 | R MIDW | | | | Page 1 | of \int_{Σ_1} |
|---------------|--|--------------------------------|---------------------------------------|---|----------------|---------------------|-----------------|-----------------------|------------|-------------|---------------|----------|------------|---------------------|---------------|--------------------------------------|----------------------|
| Company Na | | | | ~ | Bank | a Ane | sk Hiz | | | (| | 612-607- | -1700 | WI: 920-469-2436 | | | 6 Page 18 of 21 |
| Branch/Loca | 1-10013017, WZ | | 1, | / | гаы | T FU IC WWW.D | uyuu ecelebs | cal* | 4) | Ç | | | | | 465 | 20407 | <u> </u> |
| Project Cont | TAMANEW SIGNA | | 1 / | | | | | | | | | | | Quote #: | | | Pa |
| Phone: | 608-826-3665 | | ' | (| CH/ | NIA | OI | F CI | US' | TO | DY | 7 | | Mail To Contact: | Andrew | stehn | |
| Project Num | | | A=N | lone B= | HCL C | =H2SO4 | | ration Cod 3 E≃DIV | | =Metha | nol G=I | NaOH | | Mail To Company: | TRC | | |
| Project Name | | | H=S | Sodium Bist | ilfate Solu | tion | I=Sodiu | ım Thiosulfa | ate J= | Other | | | | Mail To Address: | 708 Hear | Hand Trail Sui | le 3000 |
| Project State | | | | ERED? S/NO) | Y/N | N | N | | | | | | | | Madiso | n, WI 537 | 17 |
| Sampled By | 0 11 | | PRESE | RVATION | Pick Letter | Ω | Â | | | | | | | Invoice To Contact: | | | |
| Sampled By | | | 1 " | DDE)* | Latter | | | | | | | | | Invoice To Company: | Same ab |) | |
| PO #: | 119156 | Regulatory | | | - B | (see included list) | | | | | | | | Involve To Address | , | - 95 | |
| | | Program: | rix Code | _ | ∮ 🧸 | 13.4° | | | | | | | | Invoice To Address: | 96 | ova | |
| (bill | | Air | W = Water | | Red | 25. | | | | | | | | | | | |
| | A Level III (billable) C = | = Biota = Charcoal = Oil | DW = Drink GW = Grou SW = Surfa | nd Water | 1888 | 1° | 10 | | | | | | | Invoice To Phone: | 608- | 826-366 | 5 |
| | A Level IV Line in leaded on s = | : Soil = Sludge | WW = Was WP = Wipe | | Amaty | VoCs | PAH | | | | | | | CLIENT | LAB C | OMMENTS | Profile # |
| PACE LAB# | CLIENT FIELD ID | DATE | ECTION TIME | MATRIX | | > | 14 | | | | | | | COMMENTS | (Lab | Use Only) | |
| 001 | INFLUENT | 3/2/20 | 10:05 | W | | メ | × | | | | | | | standard TAT | | | |
| 202 | EFFLUENT | 3/2/20 | 10:00 | W | | Х | Х | | | | | | | 1 | | | |
| 003 | Trip Blank | 3/2/20 | - | Tw | | Х | | | | | | | | * | | | |
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| Puch Tu | rnaround Time Requested - Prelims | <u> </u> | | | | nd | <u> </u> | | | | | | | | | PACE Proje | oct No |
| | FAT subject to approval/surcharge) | Relino | juished By: | Ben | Wal | LOW | Dai | te/Time: 3/2/20 | 020 | 7:00 | Received | гву: | | Date/Time: | | FACE Floji | CL NO. |
| | Date Needed: | | uished By: | A | Gr 1 | $\overline{}$ |) Dai | te/Time: | <u>~ Λ</u> | 915 | Received | By: | KI | Date/Time: | _ 09 | 5 | |
| Transmit Prei | lim Rush Results by (complete what you wan | Section At the Contraction | uished By: | <u>w </u> | אני | | Dat | te/Time: | <u>U</u> | <i>,,</i> , | Received | By: | <u>v \</u> | My 33- | 20 | Receipt Temp = | ②工℃ |
| mail #2: | | | | | | | | | | | | | | | | Sample Rec | |
| elephone: | | Relinq | uished By: | | | | Dat | le/Time: | | | Received | By: | | Date/Time: | | OK / Adju | |
| s | amples on HOLD are subject to | Relinq | uished By: | | | | Dat | e/Time: | | | Received | Ву: | | Date/Time: | | Present / (tot | Present |
| spe | cial pricing and release of liability | | | | | | | | | | | | | | | Intact / Not Version 6.0 06/14/06 | Intact |

Madison-Kipp Corporation GETS Sampling Parameters March/June/September/December 2020

Vocs

| Parameter | Method |
|---------------------------|--------|
| Bromoform | 624 |
| Carbon Tetrachloride | 624 |
| Chloroform | 624 |
| Dichlorobromomethane | 624 |
| 1,2-Dichloroethane | 624 |
| 1,1-Dichloroethylene | 624 |
| Methyl Bromide | 624 |
| Chloromethane | 624 |
| 1,1,2,2-Tetrachloroethane | 624 |
| Tetrachloroethene | 624 |
| 1,1,2-Trichloroethane | 624 |
| 1,1,1-Trichloroethane | 624 |
| Trichloroethylene | 624 |
| Vinyl Chloride | 624 |
| | |

Benzene
Toluene
Ethylbenzene

Xylenes

624 624 BTEX

Parameter

Method

624 624

PAHs

| 200 | |
|------------------------|---------|
| Parameter | Method |
| Benzo(a)pyrene | 625 SIM |
| Naphthalene | 625 SIM |
| Benzo(a)anthracene | 625 SIM |
| Benzo(b)fluoranthene | 625 SIM |
| Benzo(g,h,i)perylene | 625 SIM |
| Benzo(k)fluoranthene | 625 SIM |
| Chrysene | 625 SIM |
| Dibenzo(a,h)anthracene | 625 SIM |
| Fluoranthene | 625 SIM |
| Indeno(1,2,3-cd)pyrene | 625 SIM |
| Phenanthrene | 625 SIM |
| Pyrene | 625 SIM |
| | |

TSS*

| Total Suspended Solids | Parameter | |
|------------------------|-----------|--|
| 2540D | Method | |

^{*}only in June/December

Sample Preservation Receipt Form

Pace Analytical Services, LLC 1241 Bellevue Street, Suite 9√ Green Bay, WI 54302 O

Project # 45004076

Client Name:

Lab Std #ID of preservation (if pH adjusted): Lab Lof# of pH paper:

Initial when completed:

Date/ Time:

| | | | | Gla | SS | | | | | | Plast | ic | - | | | Via | als | | | a de la companya de l | Ja | ars | | Ge | nera | 1_] | Vials (>6mm) | 152 | Act pH | ≥12 | 23 | djuste | Volume |
|-------------|------|------|------|------|---------------|------|------|------|------|------|-------|------|------|----------|------|------|----------|------|------|--|------|------|------|------|------|-----|--------------|-------------|---------|-------------|----------|-------------------|-----------|
| Pace ab# | AG10 | BG1U | AG1H | AG4S | AG4U | AGSU | AG2S | BG3U | BP1U | BP3U | BP3B | BP3N | BP3S | VG9A | DG9T | NG9N | М | M69A | VG9D | JGFU | JG9U | WGFU | WPFU | SP5T | ZPLC | QN | VOA Vials | H2SO4 pH ≤2 | NaOH+Zn | NaOH pH ≥12 | Hd EONH | pH after adjusted | (mL) |
| 01 | | | | | | व | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | 2.5 / 5 / |
| 02 | | | | | | 2 | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | 2.5/5/ |
| 03 | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | 1 | | | | | | 2.5 / 5 / |
| 04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 100 | | | | 2.5/5/ |
| 05 | | / | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | 2.5 / 5 / |
| 06 | | | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5/5/ |
| 07 | | | | | $\overline{}$ | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5/5/ |
| 08 | | | | | | | / | | | | | | | 100 | | | | | | | | | | | | | | | | | 1000 | | 2.5/5/ |
| 09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5/5/ |
| 10 | | | | | | | | | | | / | | | | | | | | | | | | | | | | | | | | | | 2.5/5/ |
| 11 | | | | | | | | | | | | > | | | | | | | | | | | | | | | | | | 2.00 | | | 2.5/5/ |
| 12 | | | | | | | | | | | | | | - | | | | | | | | | | | | | | | | | | | 2.5/5/ |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5/5/ |
| 14 | | | | | | | | | | | | | | | | | / | , | | | | | | | | | | | | | | | 2.5/5/ |
| 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5/5/ |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5/5/ |
| 17 | | | | | | | | | | | | | | | | | | | | | | | | / | | | | | | | | | 2.5/5/ |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | / | | | | | 10.00 | | | 2.5/5/ |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | رحر | 15/ | 20 | <u> </u> | . 5 | 2.5/5/ |
| 20 | | | | 10 | | | | | | | | | | | | | | | | | | | | | | | | -2 | -/- | | 35 | 7 | 2.5/5/ |

| AG1U 1 liter amber glass BG1U 1 liter clear glass AG1H 1 liter amber glass HCL AG4S 125 mL amber glass H2SO4 | BP3U BP3B | 1 liter plastic unpres 250 mL plastic unpres 250 mL plastic NaOH 250 mL plastic HNO3 | DG9T VG9U | 40 mL clear ascorbic 40 mL amber Na Thio 40 mL clear vial unpres 40 mL clear vial HCL | JG9U WGFU | 4 oz amber jar unpres 9 oz amber jar unpres 4 oz clear jar unpres 4 oz plastic jar unpres | |
|--|--------------|---|--------------|--|--------------|--|--|
| AG4U 120 mL amber glass unpres AG5U 100 mL amber glass unpres | | 250 mL plastic H2SO4 | VG9M | 40 mL clear vial MeOH 40 mL clear vial DI | SP5T | 120 mL plastic Na Thiosulfate ziploc bag | |
| AG2S 500 mL amber glass H2SO4 BG3U 250 mL clear glass unpres | | | | | GN | | |

Pace Analytical

1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: F-GB-C-031-Rev.07

Document Revised: 25Apr2018

Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

| Temp Blank Present: | |
|--|--|
| Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C. Chain of Custody Present: Chain of Custody Filled Out: Chain of Custody Filled Out: Chain of Custody Relinquished: Sampler Name & Signature on COC: Samples Arrived within Hold Time: - VOA Samples frozen upon receipt Short Hold Time Analysis (<72hr): Sufficient Volume: For Analysis: ☐ Yes ☐ No ☐ N/A Correct Containers Used: -Pace Containers Used: Containers Intact: Cyes ☐ No ☐ N/A 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | nples on ice, cooling process has begun |
| Chain of Custody Filled Out: | Person examining contents: Date: 3-3-20 Initials: |
| Chain of Custody Relinquished: ØYes □No □N/A 3. Sampler Name & Signature on COC: ØYes □No □N/A 4. Samples Arrived within Hold Time: ØYes □No □Date/Time: - VOA Samples frozen upon receipt □Yes □No □Date/Time: Short Hold Time Analysis (<72hr): □Yes ☑No □A Rush Turn Around Time Requested: □Yes ☑No □A Sufficient Volume: 8. For Analysis: ☑Yes □No MS/MSD: □Yes ☑No □N/A Correct Containers Used: ☑Yes □No □N/A -Pace Containers Used: ☑Yes □No □N/A -Pace IR Containers Used: □Yes □No □N/A Containers Intact: ØYes □No □N/A Filtered volume received for Dissolved tests □Yes □No □N/A 11. | |
| Sampler Name & Signature on COC: | |
| Samples Arrived within Hold Time: - VOA Samples frozen upon receipt - VOA Samples frozen upon pater from constant upon for the following pater from the fo | |
| - VOA Samples frozen upon receipt | |
| Short Hold Time Analysis (<72hr): | |
| Rush Turn Around Time Requested: | |
| Sufficient Volume: For Analysis: | |
| For Analysis: Ves No MS/MSD: Yes No No N/A Correct Containers Used: Yes No No N/A -Pace Containers Used: Yes No N/A -Pace IR Containers Used: Yes No N/A Containers Intact: Yes No N/A iltered volume received for Dissolved tests Yes No N/A 11. | |
| -Pace Containers Used: -Pace IR Containers Used: -Pace INO DN/A -Pace INO DN/A -Pace INO DN/A -Pace IR Containers Used: -Pa | |
| Containers Intact: | |
| Filtered volume received for Dissolved tests | |
| | |
| -Includes date/time/ID/Analysis Matrix: | |
| rip Blank Present: Øyes □No □N/A 13. | |
| rip Blank Custody Seals Present 438 Present ace Trip Blank Lot # (if purchased): | |
| Ilient Notification/ Resolution: If checked, see Person Contacted: Date/Time: Comments/ Resolution: | attached form for additional comments |



(920)469-2436



June 18, 2020

Andrew Stehn TRC Madison 708 Heartland Trail Madison, WI 53717

RE: Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

Dear Andrew Stehn:

Enclosed are the analytical results for sample(s) received by the laboratory on June 11, 2020. 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 - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer tod.noltemeyer@pacelabs.com (920)469-2436

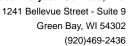
Tod holteneya

Project Manager

Enclosures

cc: Peggy Popp, TRC - Madison Ben Wachholz, TRC Madison







CERTIFICATIONS

Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334

New York Certification #: 12064 North Dakota Certification #: R-150 Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0





SAMPLE SUMMARY

Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | |
|-------------|------------|--------|----------------|----------------|--|
| 40209294001 | EFFLUENT | Water | 06/09/20 15:00 | 06/11/20 08:35 | |
| 40209294002 | INFLUENT | Water | 06/09/20 15:05 | 06/11/20 08:35 | |
| 40209294003 | TRIP BLANK | Water | 06/09/20 00:00 | 06/11/20 08:35 | |

(920)469-2436



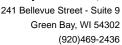
SAMPLE ANALYTE COUNT

Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|------------|-------------|----------|----------------------|
| 40209294001 | EFFLUENT | EPA 625 SIM | TPO | 14 |
| | | EPA 624.1 | HNW | 21 |
| | | SM 2540D | JXM | 1 |
| 40209294002 | INFLUENT | EPA 625 SIM | TPO | 14 |
| | | EPA 624.1 | HNW | 21 |
| | | SM 2540D | JXM | 1 |
| 40209294003 | TRIP BLANK | EPA 624.1 | HNW | 21 |

PASI-G = Pace Analytical Services - Green Bay





SUMMARY OF DETECTION

Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|-----------------------------|--------|-------|--------------|----------------|------------|
| 40209294001 | EFFLUENT | | | | | |
| EPA 624.1 | Tetrachloroethene | 10.2 | ug/L | 1.1 | 06/12/20 20:08 | |
| EPA 624.1 | Trichloroethene | 2.0 | ug/L | 1.0 | 06/12/20 20:08 | |
| 40209294002 | INFLUENT | | | | | |
| EPA 624.1 | Tetrachloroethene | 1280 | ug/L | 21.8 | 06/12/20 13:33 | |
| EPA 624.1 | Trichloroethene | 132 | ug/L | 20.0 | 06/12/20 13:33 | |
| SM 2540D | Total Suspended Solids | 1.0J | mg/L | 2.0 | 06/15/20 06:07 | |



1241 Bellevue Street - Suite 9 Green Bay, WI 54302 (920)469-2436

PROJECT NARRATIVE

Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

Method: EPA 625 SIM

Description: 625 MSSV PAH by SIM
Client: TRC - MADISON
Date: June 18, 2020

General Information:

2 samples were analyzed for EPA 625 SIM by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 625 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Batch Comments:

An MS / MSD pair was extracted with this batch, it is reported with a different analytical batch. The MS / MSD passed all laboratory limits.

• QC Batch: 357456

(920)469-2436





PROJECT NARRATIVE

Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

Method: **EPA 624.1**

Description: 624.1 Volatile Organics Client: TRC - MADISON Date: June 18, 2020

General Information:

3 samples were analyzed for EPA 624.1 by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

(920)469-2436





PROJECT NARRATIVE

372148 PH.2 TSK 2 MKC-GETS Project:

Pace Project No.: 40209294

Method: SM 2540D

Description: 2540D Total Suspended Solids

Client: TRC - MADISON Date: June 18, 2020

General Information:

2 samples were analyzed for SM 2540D by Pace Analytical Services Green Bay. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

Date: 06/18/2020 04:44 AM

| Sample: EFFLUENT | Lab ID: | 40209294001 | Collecte | d: 06/09/20 | 15:00 | Received: 06 | 11/20 08:35 Ma | atrix: Water | |
|------------------------------|------------|------------------|------------|--------------|----------|----------------|----------------|--------------|-----|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qua |
| 625 MSSV PAH by SIM | Analytical | Method: EPA 6 | 25 SIM Pre | eparation Me | ethod: E | EPA 625 | | | |
| · | - | lytical Services | | | | | | | |
| Benzo(a)anthracene | <0.0069 | ug/L | 0.035 | 0.0069 | 1 | 06/11/20 14:29 | 06/12/20 17:44 | 56-55-3 | |
| Benzo(a)pyrene | <0.0097 | ug/L | 0.048 | 0.0003 | 1 | 06/11/20 14:29 | 06/12/20 17:44 | | |
| Benzo(b)fluoranthene | <0.0053 | ug/L | 0.026 | 0.0057 | 1 | 06/11/20 14:29 | 06/12/20 17:44 | | |
| Benzo(g,h,i)perylene | <0.0062 | ug/L | 0.031 | 0.0062 | 1 | 06/11/20 14:29 | 06/12/20 17:44 | | |
| Benzo(k)fluoranthene | < 0.0069 | ug/L | 0.035 | 0.0069 | 1 | 06/11/20 14:29 | 06/12/20 17:44 | | |
| Chrysene | <0.012 | ug/L | 0.060 | 0.012 | 1 | 06/11/20 14:29 | 06/12/20 17:44 | | |
| Dibenz(a,h)anthracene | <0.0092 | ug/L | 0.046 | 0.0092 | 1 | 06/11/20 14:29 | 06/12/20 17:44 | | |
| Fluoranthene | <0.0098 | ug/L | 0.049 | 0.0098 | 1 | 06/11/20 14:29 | 06/12/20 17:44 | | |
| Indeno(1,2,3-cd)pyrene | <0.016 | ug/L | 0.043 | 0.0036 | 1 | 06/11/20 14:29 | 06/12/20 17:44 | | |
| Naphthalene | <0.017 | ug/L ug/L | 0.081 | 0.010 | 1 | 06/11/20 14:29 | 06/12/20 17:44 | | |
| Phenanthrene | <0.017 | ug/L ug/L | 0.063 | 0.017 | 1 | 06/11/20 14:29 | 06/12/20 17:44 | | |
| Pyrene | <0.013 | ug/L ug/L | 0.003 | 0.013 | 1 | 06/11/20 14:29 | 06/12/20 17:44 | | |
| Surrogates | <0.0070 | ug/L | 0.033 | 0.0070 | ' | 00/11/20 14.29 | 00/12/20 17.44 | 129-00-0 | |
| 2-Fluorobiphenyl (S) | 49 | % | 39-120 | | 1 | 06/11/20 14:29 | 06/12/20 17:44 | 321-60-8 | |
| Terphenyl-d14 (S) | 73 | % | 10-159 | | 1 | 06/11/20 14:29 | 06/12/20 17:44 | | |
| | Analytical | | 04.4 | | | | | | |
| 624.1 Volatile Organics | • | Method: EPA 6 | | | | | | | |
| | Pace Ana | lytical Services | - Green Ba | У | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 06/12/20 20:08 | 71-43-2 | |
| Bromodichloromethane | < 0.36 | ug/L | 1.2 | 0.36 | 1 | | 06/12/20 20:08 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 06/12/20 20:08 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 06/12/20 20:08 | 74-83-9 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 06/12/20 20:08 | 56-23-5 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 06/12/20 20:08 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 06/12/20 20:08 | 74-87-3 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 06/12/20 20:08 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 06/12/20 20:08 | 75-35-4 | |
| Ethylbenzene | < 0.32 | ug/L | 1.1 | 0.32 | 1 | | 06/12/20 20:08 | 100-41-4 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 06/12/20 20:08 | 79-34-5 | |
| Tetrachloroethene | 10.2 | ug/L | 1.1 | 0.33 | 1 | | 06/12/20 20:08 | 127-18-4 | |
| Toluene | <0.27 | ug/L | 0.90 | 0.27 | 1 | | 06/12/20 20:08 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 06/12/20 20:08 | 71-55-6 | |
| 1,1,2-Trichloroethane | < 0.55 | ug/L | 5.0 | 0.55 | 1 | | 06/12/20 20:08 | 79-00-5 | |
| Trichloroethene | 2.0 | ug/L | 1.0 | 0.26 | 1 | | 06/12/20 20:08 | 79-01-6 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 06/12/20 20:08 | | |
| Xylene (Total) | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 06/12/20 20:08 | | |
| Surrogates | | 3 | | - | | | | - | |
| Dibromofluoromethane (S) | 97 | % | 70-130 | | 1 | | 06/12/20 20:08 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 94 | % | 70-130 | | 1 | | 06/12/20 20:08 | 460-00-4 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 06/12/20 20:08 | 2037-26-5 | |
| 2540D Total Suspended Solids | Analytical | Method: SM 25 | 340D | | | | | | |
| 20.05 Total Gaspended Conds | • | lytical Services | | V | | | | | |
| Total Succeeded Solida | | | | • | 1 | | 06/15/20 06:07 | | |
| Total Suspended Solids | <0.95 | mg/L | 2.0 | 0.95 | 1 | | 06/15/20 06:07 | | |



Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

Date: 06/18/2020 04:44 AM

| Sample: INFLUENT | Lab ID: | 40209294002 | Collected: | 06/09/20 | 15:05 | Received: 06/ | 11/20 08:35 M | atrix: Water | |
|------------------------------|------------|-------------------------------|-------------|------------|---------|----------------|------------------|--------------|-----|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qua |
| 625 MSSV PAH by SIM | Analytical | Method: EPA 6 | 25 SIM Prep | aration Me | thod: E | EPA 625 | | | |
| • | Pace Ana | lytical Services | - Green Bay | | | | | | |
| Benzo(a)anthracene | <0.0073 | ug/L | 0.036 | 0.0073 | 1 | 06/11/20 14:29 | 06/12/20 18:03 | 56-55-3 | |
| Benzo(a)pyrene | <0.010 | ug/L | 0.051 | 0.010 | 1 | 06/11/20 14:29 | 06/12/20 18:03 | | |
| Benzo(b)fluoranthene | <0.0055 | ug/L | 0.028 | 0.0055 | 1 | 06/11/20 14:29 | 06/12/20 18:03 | | |
| Benzo(g,h,i)perylene | <0.0065 | ug/L | 0.033 | 0.0065 | 1 | 06/11/20 14:29 | 06/12/20 18:03 | | |
| Benzo(k)fluoranthene | < 0.0073 | ug/L | 0.036 | 0.0073 | 1 | 06/11/20 14:29 | 06/12/20 18:03 | | |
| Chrysene | <0.013 | ug/L | 0.063 | 0.013 | 1 | 06/11/20 14:29 | 06/12/20 18:03 | | |
| Dibenz(a,h)anthracene | <0.0096 | ug/L | 0.048 | 0.0096 | 1 | 06/11/20 14:29 | 06/12/20 18:03 | | |
| Fluoranthene | <0.010 | ug/L | 0.051 | 0.010 | 1 | 06/11/20 14:29 | 06/12/20 18:03 | | |
| ndeno(1,2,3-cd)pyrene | <0.017 | ug/L | 0.085 | 0.017 | 1 | 06/11/20 14:29 | 06/12/20 18:03 | | |
| Naphthalene | <0.017 | ug/L | 0.088 | 0.017 | 1 | 06/11/20 14:29 | 06/12/20 18:03 | | |
| Phenanthrene | <0.013 | ug/L | 0.066 | 0.013 | 1 | 06/11/20 14:29 | 06/12/20 18:03 | | |
| Pyrene | <0.0074 | ug/L | 0.037 | 0.013 | 1 | 06/11/20 14:29 | 06/12/20 18:03 | | |
| Surrogates | 70.0017 | ~9, - | 0.007 | 3.001 7 | • | 33/11/20 17.20 | 55, 12,20 10.00 | .20 00 0 | |
| 2-Fluorobiphenyl (S) | 60 | % | 39-120 | | 1 | 06/11/20 14:29 | 06/12/20 18:03 | 321-60-8 | |
| Terphenyl-d14 (S) | 88 | % | 10-159 | | 1 | 06/11/20 14:29 | 06/12/20 18:03 | 1718-51-0 | |
| 324.1 Volatile Organics | Analytical | Method: EPA 62 | 24.1 | | | | | | |
| | - | lytical Services | | | | | | | |
| Benzene | <4.9 | ug/L | 20.0 | 4.9 | 20 | | 06/12/20 13:33 | 71-43-2 | |
| Bromodichloromethane | <7.3 | ug/L | 24.2 | 7.3 | 20 | | 06/12/20 13:33 | | |
| Bromoform | <79.4 | ug/L | 265 | 79.4 | 20 | | 06/12/20 13:33 | | |
| Bromomethane | <19.4 | ug/L | 100 | 19.4 | 20 | | 06/12/20 13:33 | | |
| Carbon tetrachloride | <21.5 | ug/L | 71.8 | 21.5 | 20 | | 06/12/20 13:33 | | |
| Chloroform | <25.5 | ug/L | 100 | 25.5 | 20 | | 06/12/20 13:33 | | |
| Chloromethane | <43.8 | ug/L | 146 | 43.8 | 20 | | 06/12/20 13:33 | | |
| 1,2-Dichloroethane | <5.6 | ug/L | 20.0 | 5.6 | 20 | | 06/12/20 13:33 | | |
| 1,1-Dichloroethene | <4.9 | ug/L | 20.0 | 4.9 | 20 | | 06/12/20 13:33 | | |
| Ethylbenzene | <6.4 | ug/L | 21.2 | 6.4 | 20 | | 06/12/20 13:33 | | |
| 1,1,2,2-Tetrachloroethane | <5.5 | ug/L | 20.0 | 5.5 | 20 | | 06/12/20 13:33 | | |
| Tetrachloroethene | 1280 | ug/L | 21.8 | 6.5 | 20 | | 06/12/20 13:33 | | |
| Toluene | <5.4 | ug/L | 18.0 | 5.4 | 20 | | 06/12/20 13:33 | | |
| 1,1,1-Trichloroethane | <4.9 | ug/L | 20.0 | 4.9 | 20 | | 06/12/20 13:33 | | |
| 1,1,2-Trichloroethane | <11.0 | ug/L | 100 | 11.0 | 20 | | 06/12/20 13:33 | | |
| Frichloroethene | 132 | ug/L | 20.0 | 5.1 | 20 | | 06/12/20 13:33 | | |
| /inyl chloride | <3.5 | ug/L | 20.0 | 3.5 | 20 | | 06/12/20 13:33 | | |
| Kylene (Total) | <30.0 | ug/L | 60.0 | 30.0 | 20 | | 06/12/20 13:33 | | |
| Surrogates | 400.0 | ~ ₃ , - | 55.0 | 55.0 | _3 | | 20, 12, 20 10.00 | .000 20 1 | |
| Dibromofluoromethane (S) | 99 | % | 70-130 | | 20 | | 06/12/20 13:33 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 91 | % | 70-130 | | 20 | | 06/12/20 13:33 | | |
| Foluene-d8 (S) | 98 | % | 70-130 | | 20 | | 06/12/20 13:33 | | |
| 2540D Total Suspended Solids | Analytical | Method: SM 25 | 40D | | | | | | |
| • • • • • • • • | • | lytical Services | | | | | | | |
| | i ace Alia | iy tiodi Oci vioco | Citotii Bay | | | | | | |



Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

Date: 06/18/2020 04:44 AM

| Sample: TRIP BLANK | Lab ID: | 40209294003 | Collected | d: 06/09/20 | 00:00 | Received: 06 | 6/11/20 08:35 M | atrix: Water | |
|----------------------------------|------------|-----------------|-------------|-------------|-------|--------------|-----------------|--------------|------|
| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
| 624.1 Volatile Organics | Analytical | Method: EPA 6 | 24.1 | | | | | | |
| | Pace Anal | ytical Services | - Green Bay | / | | | | | |
| Benzene | <0.25 | ug/L | 1.0 | 0.25 | 1 | | 06/12/20 17:53 | 71-43-2 | |
| Bromodichloromethane | <0.36 | ug/L | 1.2 | 0.36 | 1 | | 06/12/20 17:53 | 75-27-4 | |
| Bromoform | <4.0 | ug/L | 13.2 | 4.0 | 1 | | 06/12/20 17:53 | 75-25-2 | |
| Bromomethane | <0.97 | ug/L | 5.0 | 0.97 | 1 | | 06/12/20 17:53 | 74-83-9 | |
| Carbon tetrachloride | <1.1 | ug/L | 3.6 | 1.1 | 1 | | 06/12/20 17:53 | 56-23-5 | |
| Chloroform | <1.3 | ug/L | 5.0 | 1.3 | 1 | | 06/12/20 17:53 | 67-66-3 | |
| Chloromethane | <2.2 | ug/L | 7.3 | 2.2 | 1 | | 06/12/20 17:53 | 74-87-3 | |
| 1,2-Dichloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 06/12/20 17:53 | 107-06-2 | |
| 1,1-Dichloroethene | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 06/12/20 17:53 | 75-35-4 | |
| Ethylbenzene | <0.32 | ug/L | 1.1 | 0.32 | 1 | | 06/12/20 17:53 | 100-41-4 | |
| 1,1,2,2-Tetrachloroethane | <0.28 | ug/L | 1.0 | 0.28 | 1 | | 06/12/20 17:53 | 79-34-5 | |
| Tetrachloroethene | < 0.33 | ug/L | 1.1 | 0.33 | 1 | | 06/12/20 17:53 | 127-18-4 | |
| Toluene | <0.27 | ug/L | 0.90 | 0.27 | 1 | | 06/12/20 17:53 | 108-88-3 | |
| 1,1,1-Trichloroethane | <0.24 | ug/L | 1.0 | 0.24 | 1 | | 06/12/20 17:53 | 71-55-6 | |
| 1,1,2-Trichloroethane | <0.55 | ug/L | 5.0 | 0.55 | 1 | | 06/12/20 17:53 | 79-00-5 | |
| Trichloroethene | <0.26 | ug/L | 1.0 | 0.26 | 1 | | 06/12/20 17:53 | 79-01-6 | |
| Vinyl chloride | <0.17 | ug/L | 1.0 | 0.17 | 1 | | 06/12/20 17:53 | 75-01-4 | |
| Xylene (Total) Surrogates | <1.5 | ug/L | 3.0 | 1.5 | 1 | | 06/12/20 17:53 | 1330-20-7 | |
| Dibromofluoromethane (S) | 100 | % | 70-130 | | 1 | | 06/12/20 17:53 | 1868-53-7 | |
| 4-Bromofluorobenzene (S) | 93 | % | 70-130 | | 1 | | 06/12/20 17:53 | 460-00-4 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 06/12/20 17:53 | 2037-26-5 | |



Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

Date: 06/18/2020 04:44 AM

QC Batch: 357469 Analysis Method: EPA 624.1
QC Batch Method: EPA 624.1 Analysis Description: 624.1 MSV

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40209294001, 40209294002, 40209294003

METHOD BLANK: 2067555 Matrix: Water

Associated Lab Samples: 40209294001, 40209294002, 40209294003

| | | Blank | Reporting | | |
|---------------------------|-------|--------|-----------|----------------|------------|
| Parameter | Units | Result | Limit | Analyzed | Qualifiers |
| 1,1,1-Trichloroethane | ug/L | <0.24 | 1.0 | 06/12/20 12:26 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.28 | 1.0 | 06/12/20 12:26 | |
| 1,1,2-Trichloroethane | ug/L | < 0.55 | 5.0 | 06/12/20 12:26 | |
| 1,1-Dichloroethene | ug/L | < 0.24 | 1.0 | 06/12/20 12:26 | |
| 1,2-Dichloroethane | ug/L | <0.28 | 1.0 | 06/12/20 12:26 | |
| Benzene | ug/L | < 0.25 | 1.0 | 06/12/20 12:26 | |
| Bromodichloromethane | ug/L | < 0.36 | 1.2 | 06/12/20 12:26 | |
| Bromoform | ug/L | <4.0 | 13.2 | 06/12/20 12:26 | |
| Bromomethane | ug/L | < 0.97 | 5.0 | 06/12/20 12:26 | |
| Carbon tetrachloride | ug/L | <1.1 | 3.6 | 06/12/20 12:26 | |
| Chloroform | ug/L | <1.3 | 5.0 | 06/12/20 12:26 | |
| Chloromethane | ug/L | <2.2 | 7.3 | 06/12/20 12:26 | |
| Ethylbenzene | ug/L | < 0.32 | 1.1 | 06/12/20 12:26 | |
| Tetrachloroethene | ug/L | < 0.33 | 1.1 | 06/12/20 12:26 | |
| Toluene | ug/L | < 0.27 | 0.90 | 06/12/20 12:26 | |
| Trichloroethene | ug/L | <0.26 | 1.0 | 06/12/20 12:26 | |
| Vinyl chloride | ug/L | <0.17 | 1.0 | 06/12/20 12:26 | |
| Xylene (Total) | ug/L | <1.5 | 3.0 | 06/12/20 12:26 | |
| 4-Bromofluorobenzene (S) | % | 92 | 70-130 | 06/12/20 12:26 | |
| Dibromofluoromethane (S) | % | 99 | 70-130 | 06/12/20 12:26 | |
| Toluene-d8 (S) | % | 99 | 70-130 | 06/12/20 12:26 | |

| LABORATORY CONTROL SAMPLE: | 2067556 | | | | | |
|----------------------------|---------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| 1,1,1-Trichloroethane | ug/L | 50 | 47.0 | 94 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 49.7 | 99 | 60-140 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 50.1 | 100 | 70-130 | |
| 1,1-Dichloroethene | ug/L | 50 | 46.5 | 93 | 50-150 | |
| 1,2-Dichloroethane | ug/L | 50 | 46.7 | 93 | 70-130 | |
| Benzene | ug/L | 50 | 46.5 | 93 | 65-135 | |
| Bromodichloromethane | ug/L | 50 | 49.0 | 98 | 65-135 | |
| Bromoform | ug/L | 50 | 52.7 | 105 | 70-130 | |
| Bromomethane | ug/L | 50 | 51.0 | 102 | 15-185 | |
| Carbon tetrachloride | ug/L | 50 | 48.4 | 97 | 70-130 | |
| Chloroform | ug/L | 50 | 46.3 | 93 | 70-135 | |
| Chloromethane | ug/L | 50 | 45.8 | 92 | 10-200 | |
| Ethylbenzene | ug/L | 50 | 51.9 | 104 | 60-140 | |
| Tetrachloroethene | ug/L | 50 | 50.4 | 101 | 70-130 | |

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.



Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

Date: 06/18/2020 04:44 AM

| LABORATORY CONTROL SAMPLE: | 2067556 | | | | | |
|----------------------------|---------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| Toluene | ug/L | 50 | 50.1 | 100 | 70-130 | |
| Trichloroethene | ug/L | 50 | 48.4 | 97 | 65-135 | |
| Vinyl chloride | ug/L | 50 | 46.6 | 93 | 10-195 | |
| Xylene (Total) | ug/L | 150 | 159 | 106 | 70-130 | |
| 4-Bromofluorobenzene (S) | % | | | 103 | 70-130 | |
| Dibromofluoromethane (S) | % | | | 98 | 70-130 | |
| Toluene-d8 (S) | % | | | 101 | 70-130 | |

| MATRIX SPIKE & MATRIX SP | PIKE DUPLIC | CATE: 2067 | 579 | | 2067580 | | | | | | | |
|---------------------------|-------------|------------|-------|-------|---------|--------|-------|-------|--------|-----|-----|-----|
| | | | MS | MSD | | | | | | | | |
| | 1 | 0519645001 | Spike | Spike | MS | MSD | MS | MSD | % Rec | | Max | |
| Parameter | Units | Result | Conc. | Conc. | Result | Result | % Rec | % Rec | Limits | RPD | RPD | Qua |
| 1,1,1-Trichloroethane | ug/L | ND | 50 | 50 | 46.0 | 47.2 | 92 | 94 | 52-162 | 3 | 36 | H1 |
| 1,1,2,2-Tetrachloroethane | ug/L | ND | 50 | 50 | 46.7 | 49.6 | 93 | 99 | 46-157 | 6 | 50 | H1 |
| 1,1,2-Trichloroethane | ug/L | ND | 50 | 50 | 48.3 | 49.9 | 97 | 100 | 52-150 | 3 | 45 | H1 |
| 1,1-Dichloroethene | ug/L | ND | 50 | 50 | 43.5 | 45.1 | 87 | 90 | 10-200 | 4 | 32 | H1 |
| 1,2-Dichloroethane | ug/L | ND | 50 | 50 | 43.7 | 45.1 | 87 | 90 | 49-155 | 3 | 49 | H1 |
| Benzene | ug/L | ND | 50 | 50 | 45.1 | 46.4 | 90 | 93 | 37-151 | 3 | 50 | H1 |
| Bromodichloromethane | ug/L | 1.2 | 50 | 50 | 49.3 | 50.8 | 96 | 99 | 35-155 | 3 | 50 | H1 |
| Bromoform | ug/L | ND | 50 | 50 | 48.8 | 51.0 | 98 | 102 | 45-169 | 5 | 42 | H1 |
| Bromomethane | ug/L | ND | 50 | 50 | 36.6 | 39.7 | 73 | 79 | 10-200 | 8 | 50 | H1 |
| Carbon tetrachloride | ug/L | ND | 50 | 50 | 48.5 | 50.1 | 97 | 100 | 70-140 | 3 | 41 | H1 |
| Chloroform | ug/L | 20.3 | 50 | 50 | 64.1 | 65.9 | 87 | 91 | 51-138 | 3 | 50 | H1 |
| Chloromethane | ug/L | ND | 50 | 50 | 33.7 | 36.0 | 67 | 72 | 10-200 | 6 | 50 | H1 |
| Ethylbenzene | ug/L | ND | 50 | 50 | 51.2 | 52.9 | 102 | 106 | 37-162 | 3 | 20 | H1 |
| Tetrachloroethene | ug/L | ND | 50 | 50 | 50.4 | 51.7 | 101 | 103 | 64-148 | 3 | 39 | H1 |
| Toluene | ug/L | ND | 50 | 50 | 50.1 | 51.4 | 100 | 102 | 47-150 | 2 | 41 | H1 |
| Trichloroethene | ug/L | ND | 50 | 50 | 49.4 | 50.9 | 99 | 102 | 70-157 | 3 | 48 | H1 |
| Vinyl chloride | ug/L | ND | 50 | 50 | 38.0 | 40.1 | 76 | 80 | 10-200 | 5 | 50 | H1 |
| Xylene (Total) | ug/L | ND | 150 | 150 | 156 | 162 | 104 | 108 | 70-130 | 4 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 99 | 100 | 70-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 96 | 96 | 70-130 | | | |
| Toluene-d8 (S) | % | | | | | | 101 | 100 | 70-130 | | | |

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.



Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

Date: 06/18/2020 04:44 AM

QC Batch: 357423 Analysis Method: EPA 625 SIM
QC Batch Method: EPA 625 Analysis Description: 625 Water PAH

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40209294001, 40209294002

METHOD BLANK: 2067170 Matrix: Water

Associated Lab Samples: 40209294001, 40209294002

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|------------------------|-------|-----------------|--------------------|----------------|------------|
| Benzo(a)anthracene | ug/L | <0.0076 | 0.038 | 06/12/20 15:03 | |
| Benzo(a)pyrene | ug/L | < 0.011 | 0.053 | 06/12/20 15:03 | |
| Benzo(b)fluoranthene | ug/L | < 0.0057 | 0.029 | 06/12/20 15:03 | |
| Benzo(g,h,i)perylene | ug/L | <0.0068 | 0.034 | 06/12/20 15:03 | |
| Benzo(k)fluoranthene | ug/L | < 0.0076 | 0.038 | 06/12/20 15:03 | |
| Chrysene | ug/L | < 0.013 | 0.065 | 06/12/20 15:03 | |
| Dibenz(a,h)anthracene | ug/L | < 0.010 | 0.050 | 06/12/20 15:03 | |
| Fluoranthene | ug/L | < 0.011 | 0.053 | 06/12/20 15:03 | |
| Indeno(1,2,3-cd)pyrene | ug/L | <0.018 | 0.088 | 06/12/20 15:03 | |
| Naphthalene | ug/L | <0.018 | 0.092 | 06/12/20 15:03 | |
| Phenanthrene | ug/L | < 0.014 | 0.069 | 06/12/20 15:03 | |
| Pyrene | ug/L | < 0.0076 | 0.038 | 06/12/20 15:03 | |
| 2-Fluorobiphenyl (S) | % | 60 | 39-120 | 06/12/20 15:03 | |
| Terphenyl-d14 (S) | % | 97 | 10-159 | 06/12/20 15:03 | |

| LABORATORY CONTROL SAMPLE: | 2067171 | | | | | |
|----------------------------|---------|-------|--------|-------|--------|------------|
| | | Spike | LCS | LCS | % Rec | |
| Parameter | Units | Conc. | Result | % Rec | Limits | Qualifiers |
| Benzo(a)anthracene | ug/L | | 1.9 | 93 | 47-118 | |
| Benzo(a)pyrene | ug/L | 2 | 1.9 | 96 | 70-120 | |
| Benzo(b)fluoranthene | ug/L | 2 | 1.8 | 90 | 54-97 | |
| Benzo(g,h,i)perylene | ug/L | 2 | 1.0 | 52 | 26-74 | |
| Benzo(k)fluoranthene | ug/L | 2 | 2.0 | 100 | 73-126 | |
| Chrysene | ug/L | 2 | 1.9 | 97 | 75-151 | |
| Dibenz(a,h)anthracene | ug/L | 2 | 0.89 | 44 | 13-72 | |
| Fluoranthene | ug/L | 2 | 2.0 | 100 | 63-120 | |
| Indeno(1,2,3-cd)pyrene | ug/L | 2 | 1.7 | 86 | 51-101 | |
| Naphthalene | ug/L | 2 | 1.1 | 53 | 41-120 | |
| Phenanthrene | ug/L | 2 | 1.6 | 81 | 47-100 | |
| Pyrene | ug/L | 2 | 1.8 | 89 | 70-128 | |
| 2-Fluorobiphenyl (S) | % | | | 60 | 39-120 | |
| Terphenyl-d14 (S) | % | | | 95 | 10-159 | |

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.



QUALITY CONTROL DATA

Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

QC Batch: 357563 Analysis Method: SM 2540D

QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids

Laboratory: Pace Analytical Services - Green Bay

Associated Lab Samples: 40209294001, 40209294002

METHOD BLANK: 2068447 Matrix: Water

Associated Lab Samples: 40209294001, 40209294002

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Total Suspended Solids mg/L <0.48 1.0 06/15/20 06:05

LABORATORY CONTROL SAMPLE: 2068448

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Suspended Solids** mg/L 100 92.0 92 80-120

SAMPLE DUPLICATE: 2068449

40209278002 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 373 Total Suspended Solids mg/L 347 7 10

SAMPLE DUPLICATE: 2068450

Date: 06/18/2020 04:44 AM

40209304001 Dup Max RPD RPD Parameter Units Result Result Qualifiers 10 60.0 Total Suspended Solids mg/L 61.7 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.



QUALIFIERS

Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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 at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 357456

[1] An MS / MSD pair was extracted with this batch, it is reported with a different analytical batch. The MS / MSD passed all laboratory limits.

ANALYTE QUALIFIERS

Date: 06/18/2020 04:44 AM

H1 Analysis conducted outside the recognized method holding time.

REPORT OF LABORATORY ANALYSIS

(920)469-2436



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 372148 PH.2 TSK 2 MKC-GETS

Pace Project No.: 40209294

Date: 06/18/2020 04:44 AM

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|------------|-----------------|----------|-------------------|---------------------|
| 40209294001 | EFFLUENT | EPA 625 | 357423 | EPA 625 SIM | 357456 |
| 40209294002 | INFLUENT | EPA 625 | 357423 | EPA 625 SIM | 357456 |
| 40209294001 | EFFLUENT | EPA 624.1 | 357469 | | |
| 40209294002 | INFLUENT | EPA 624.1 | 357469 | | |
| 40209294003 | TRIP BLANK | EPA 624.1 | 357469 | | |
| 40209294001 | EFFLUENT | SM 2540D | 357563 | | |
| 40209294002 | INFLUENT | SM 2540D | 357563 | | |

| | (Please Print Clearly) | | 1 | | \mathcal{A} | | | | | | <u>UPPI</u> | ER MIC | WEST | <u>REGION</u> | | Page 1 | of / c |
|--|---|--|---------------------------------|--------------------------------|---------------|-----------------|---------------|--------------|-------------|---|-------------|----------|----------------|--------------------------|--|-----------------------------|---------------|
| Company Na | ame: TRC | | | عر - | 「 」 | | | | | | MN: | 612-60 | 7-1700 | WI : 920-469-2436 | (, | | |
| Branch/Loca | ation: madisan | | | /_ | Pac | e An | alytic | cal" | | | | | | | U | 120919 | 91 OC C |
| Project Cont | | | 1 / | | | www.j | oecelebs. | .com | | | | | | Quote #: | | Υ | 7 8 |
| Phone: | 1/10/100/100/10/1 | 55 | 1 ' | | CH | AIN | O | F C | US | STC | DDY | 7 | | Mail To Contact: | Δλο | ew Steh | |
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| Project State | | | | ERED? S/NO) | Y/N | Tnz | w | IW | T | 1 | T | | | | 708 | Heart land | Tri |
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| (billa | able) On your sample A: | = Air = Biota | W = Water DW = Drink | | Requ | 1 | | | | | | | | | | · · | |
| | A Level III (billable) c | = Charcoal = Oil = Soil | GW = Grou SW = Surfa | ind Water | Analyses | 1 % | ۱, | ا (ہ | | 1 | | | | Invoice To Phone: | 409. | . 824 - i | 3665 |
| | your sample si | = Sludge | WW = Was WP = Wipe ECTION | | Anal | | Z. | 16 | , | | | | | CLIENT | The second secon | OMMENTS | Profile # |
| PACE LAB# | CLIENT FIELD ID | DATE | TIME | MATRIX | | 1 - | | \square | 1 | | | | | COMMENTS | (Lab | Use Only) | |
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| 002 | Influent | 6/9/20 | | 11 | | 3 | 2 | 1_ | | | | | | | | | |
| <u> </u> | Trip Blank | 4/16/20 | | 上 | | a | | | | | | | | | | | |
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| | naround Time Requested - Prelims AT subject to approval/surcharge) | | uished By: | | | | | e/Time: | | <u> </u> | Received | | | Date/Time: | | PACE Pro | ect No. |
| (ixusii i | Date Needed: | And Reling | uished By: | = | 7RC | | 6/10/ Date | / 2 | <u>(018</u> | <u> 10 </u> | PA c | | (مناه ا د ا | (//o/2a // Date/Time: | | 400 | 9294 |
| en referencement de l'anne l'ambient activité de l'été | im Rush Results by (complete what you wan | t): | <u>C.S</u> | 109 | istic | <u>S</u> | | 120 | _08 | 35_ | | $I\!\!M$ | (L) | while felliles | 0835 | Receipt Temp ≂ √ | √(°c |
| mail #1: mail #2: | | Reling | uished By: | | | | Date | e/Time: | | | Received | /Bÿ: | V | Date/Time: | | Sample Re | ر کی |
| elephone: | | Relinqu | uished By: | | | | Date | e/Time: | | | Received | Ву: | | Date/Time: | | OK / Adj | |
| | imples on HOLD are subject to | Relinqu | uished By: | | | | Date | e/Time: | | | Received | Ву: | | Date/Time: | | Cooler Cust Present / No | t Present |
| opeu | | | | | | | | | | | I | | | | | Version 6.0 06/14/06 | t Intact |

C019a(27Jun2006)

Pace Analytical Services, LLC Sample Preservation Receipt Form 1241 Bellevue Street, Suite 9

Client Name: THC Green Bay, WI 54302 Project # U(n) All containers needing preservation have been checked and noted below: □Yes □No →MTA Initial when Date/ completed: Time: Lab Std #ID of preservation (if pH adjusted): Lab Lot# of pH paper: Vials (>6mm) laOH+Zn Act pH after adjusted **Plastic** Vials Glass Jars General 12SO4 pH ≤2 aOH pH ≥12 Volume NO3 pH ≤2 WGFU (mL) WPFU VG9M JGFU BG1U AG1H AG4S AG4U AG5U AG2S **BG3U** BP1U BP3U **BP3B** BP3N **BP3S** VG9A DG9T NG9N VG9H VG9D 1690 ZPLC AG10 **SP5T** Pace δ Z U Lab # 2 2.5 / 5 / 10 001 002 n ሜ 2.5 / 5 / 10 2.5 / 5 / 10 003 2 004 2.5 / 5 / 10 005 2.5 / 5 / 10 006 2.5 / 5 / 10 2.5 / 5 / 10 007 2,5/5/10 008 009 2.5 / 5 / 10 010 2.5 / 5 / 10 011 2.5 / 5 / 10 012 2,5/5/10 013 2.5 / 5 / 10 2.5/5/10 014 015 2.5 / 5 / 10 016 2.5 / 5 / 10 017 2.5 / 5 / 10 018 2.5 / 5 / 10 019 2.5 / 5 / 10 2.5 / 5 / 10 Exceptions to preservation check VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Headspace in VOA Vials (>6mm): Sees □No □N/A *If yes look in headspace column AG1U 1 liter amber glass BP1U 1 liter plastic unpres VG9A 40 mL clear ascorbic **JGFU** 4 oz amber jar unpres BG1U 1 liter clear glass BP3U 250 mL plastic unpres DG9T 40 mL amber Na Thio JG9U 9 oz amber jar unpres BP3B 250 mL plastic NaOH VG9U 40 mL clear vial unpres WGFU 4 oz clear jar unpres AG1H 1 liter amber glass HCL AG4S 125 mL amber glass H2SO4 **BP3N** 250 mL plastic HNO3 VG9H 40 mL clear vial HCL **WPFU** 4 oz plastic jar unpres

BP3S 250 mL plastic H2SO4 VG9M 40 mL clear vial MeOH 120 mL plastic Na Thiosulfate AG4U 120 mL amber glass unpres SP5T VG9D 40 mL clear vial DI **ZPLC** AG5U 100 mL amber glass unpres ziploc bag AG2S 500 mL amber glass H2SO4 GN BG3U 250 mL clear glass unpres

Pace Analytical® 1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

Document No.: ENV-FRM-GBAY-0014-Rev.00

Document Revised: 26Mar2020

___Author:

Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

| Client Name: Fed Ex Spe | | | WO# 4020929 | 40209294 |
|---|--|---|-----------------------------|---|
| Custody Seal on Cooler/Box Present: yes Custody Seal on Samples Present: yes | and the fitting of the first section of the fitting of the contract of the con | ict: L≥yes [∷ no : [ict: [∵ yes [∷ no | | <u> Pagas a an British (an 1867), a an ar</u> A an British an an 1887 (a |
| Packing Material: Bubble Wrap KB | ubble Bags 🔲 No | one 🗌 Other | | |
| Thermometer Used SR - N/T Cooler Temperature Uncorr: VOI /Corr | | et Blue Dry None | Samples of | on ice, cooling process has begun Person examining contents: |
| Cooler Temperature Uncorr: √01_/Corr Temp Blank Present: □ yes 反no | The state of the s | ıl Tissue is Frozen: [| TvesE no | |
| Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C if shipped or | | | yesiiv | Date: Will Lolinitials: N |
| Chain of Custody Present: | D≪res □No □N | I/A 1. | | |
| Chain of Custody Filled Out: | Ø ves □No □N | VA 2. | | |
| Chain of Custody Relinquished: | D≪Yes □No □N | I/A 3. | | |
| Sampler Name & Signature on COC: | Øyes □No □N | I/A 4. | | |
| Samples Arrived within Hold Time: | ⊠ves □No | 5. | | |
| - VOA Samples frozen upon receipt | □Yes □No | Date/Time: | | |
| Short Hold Time Analysis (<72hr): | D≪es □No | 6. | | |
| Rush Turn Around Time Requested: | □Yes Ņ (No | 7. | | |
| Sufficient Volume: For Analysis: ⊠Yes □no MS/M | SD: □Yes ÞAÑo □N | 8. /A | | |
| Correct Containers Used: | D√es □No | 9. | | |
| -Pace Containers Used: | ⊠Yes □No □N | /A | | |
| -Pace IR Containers Used: | □Yes □No 为 | /A | | |
| Containers Intact: | Ø Yes □No | 10. | | |
| Filtered volume received for Dissolved tests | □Yes □No 🗖 | /A 11. | ray Banggaray na nasanga | |
| Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: | Y⊒Yes □No □N | VA 12. | | |
| Trip Blank Present: | | /A 13. | | |
| Trip Blank Custody Seals Present | Yes □No □N | /A | | |
| Pace Trip Blank Lot # (if purchased): 447 | | | | |
| Client Notification/ Resolution: Person Contacted: Comments/ Resolution: | Dat | e/Time: | necked, see attad | ched form for additional comments |

Attachment 5

Storm Sewer Sediment and Stormwater Monitoring Laboratory Analytical Report



June 24, 2020

Andrew Stehn
TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison, WI 53717

RE: MKC Raingarden - Madison, WI

Enclosed are the analytical results for the samples received by the laboratory on 06/10/2020.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Palzkill For Jessica Esser

Project Manager

| Certification | List | | Expires |
|---------------|--|-----------------|------------|
| DODELAP | DOD ELAP Accreditation (A2LA) | 3269.01 | 03/31/2021 |
| ILEPA | Illinois Secondary NELAP Accreditation | 004366 | 04/30/2021 |
| KDHE | Kansas Secondary NELAP Accreditation | E-10384 | 04/30/2021 |
| LELAP | Louisiana Primary NELAP Accreditation | 04165 | 06/30/2020 |
| NJDEP | New Jersey Secondary NELAP Accreditation | WI004 | 06/30/2020 |
| TCEQ | Texas Secondary NELAP Accreditation | T104704504-16-7 | 11/30/2020 |
| WDNR | Wisconsin Certification under NR 149 | 113289110 | 08/31/2020 |



Project: MKC Raingarden - Madison, WI

708 Heartland Trail, Ste 3000 Madison WI, 53717 Project Number: 372148 PL.3 TSK.2 Project Manager: Andrew Stehn

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|-------------------|---------------|--------|--------------|---------------|
| OUTFALL (6-9-20) | A202413-01 | Other | 06/09/2020 | 06/10/2020 |
| MH-1A (6-9-20) | A202413-02 | Other | 06/09/2020 | 06/10/2020 |
| OUTFALL (6/10/20) | A202413-03 | Water | 06/10/2020 | 06/10/2020 |

CASE NARRATIVE

Sample Receipt Information:

Three samples were received on 06/10/2020. Samples were received in acceptable condition.

Please see the chain of custody (COC) document at the end of this report for additional information.



Project: MKC Raingarden - Madison, WI

708 Heartland Trail, Ste 3000 Madison WI, 53717 Project Number: 372148 PL.3 TSK.2 Project Manager: Andrew Stehn

OUTFALL (6-9-20)

A202413-01 (Other)

Date Sampled 06/09/2020 13:50

| Analyte | Result | Limit of Detection | Limit of Quantitation | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|------------------------------------|-------------|-----------------------|--------------------------|----------------|----------|------------|-------------------|-----------|------------|
| | | | Pace Analy | tical - Madis | on | | | | |
| Polychlorinated Biphenyls by EPA | Method 8082 | | | | | Prep | aration Batch: A(| 006156 | |
| PCB-1016 | ND | 0.0061 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 01:35 | EPA 8082A | |
| PCB-1221 | ND | 0.0087 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 01:35 | EPA 8082A | |
| PCB-1232 | ND | 0.0058 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 01:35 | EPA 8082A | |
| PCB-1242 | ND | 0.012 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 01:35 | EPA 8082A | |
| PCB-1248 | 0.33 | 0.011 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 01:35 | EPA 8082A | |
| PCB-1254 | 0.16 | 0.0096 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 01:35 | EPA 8082A | |
| PCB-1260 | ND | 0.0094 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 01:35 | EPA 8082A | |
| Total PCBs | 0.50 | 0.012 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 01:35 | EPA 8082A | |
| Surrogate: Tetrachloro-meta-xylene | | | 110 % | 70.6-121 | | 06/18/2020 | 06/19/2020 01:35 | EPA 8082A | |
| Surrogate: Decachlorobiphenyl | | | 101 % | 64.2-121 | | 06/18/2020 | 06/19/2020 01:35 | EPA 8082A | |
| Classical Chemistry Parameters | | | | | | Prep | aration Batch: A(| 006150 | |
| % Solids | 75.8 | | 0.00 | % by Weight | 1 | 06/16/2020 | 06/17/2020 11:52 | SM 2540B | |



Project: MKC Raingarden - Madison, WI

708 Heartland Trail, Ste 3000 Madison WI, 53717

Project Number: 372148 PL.3 TSK.2 Project Manager: Andrew Stehn

MH-1A (6-9-20)

Date Sampled 06/09/2020 14:10

A202413-02 (Other)

| | | Limit of | Limit of | | | | | | |
|---------|--------|-----------|--------------|-------|----------|----------|----------|--------|------------|
| Analyte | Regult | Detection | Quantitation | Unite | Dilution | Propagad | Analyzed | Method | Qualifiers |

| Analyte | Result | Detection | Quantitation | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |
|------------------------------------|-------------|-----------|--------------|---------------|------------|------------------|-------------------|-----------|------------|
| | | | Pace Analy | tical - Madis | on | | | | |
| Polychlorinated Biphenyls by EPA | Method 8082 | | | | | Prep | aration Batch: A(| 006156 | |
| PCB-1016 | ND | 0.0059 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 02:00 | EPA 8082A | |
| PCB-1221 | ND | 0.0085 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 02:00 | EPA 8082A | |
| PCB-1232 | ND | 0.0056 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 02:00 | EPA 8082A | |
| PCB-1242 | ND | 0.012 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 02:00 | EPA 8082A | |
| PCB-1248 | 0.14 | 0.011 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 02:00 | EPA 8082A | |
| PCB-1254 | ND | 0.0094 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 02:00 | EPA 8082A | |
| PCB-1260 | ND | 0.0091 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 02:00 | EPA 8082A | |
| Total PCBs | 0.14 | 0.012 | 0.13 | mg/kg dry | 1 | 06/18/2020 | 06/19/2020 02:00 | EPA 8082A | |
| Surrogate: Tetrachloro-meta-xylene | | | 116 % | 70.6-121 | | 06/18/2020 | 06/19/2020 02:00 | EPA 8082A | |
| Surrogate: Decachlorobiphenyl | | 101 % | 64.2-121 | | 06/18/2020 | 06/19/2020 02:00 | EPA 8082A | | |
| Classical Chemistry Parameters | | | | | | Prep | aration Batch: A(| 006150 | |
| % Solids | 77.9 | | 0.00 | % by | 1 | 06/16/2020 | 06/17/2020 11:52 | SM 2540B | |

Weight



Project: MKC Raingarden - Madison, WI

708 Heartland Trail, Ste 3000 Madison WI, 53717 Project Number: 372148 PL.3 TSK.2 Project Manager: Andrew Stehn

OUTFALL (6/10/20)

A202413-03 (Water)

Date Sampled 06/10/2020 09:06

| Amplito | | | Limit of | Limit of | | | | | | |
|---------|---------|--------|----------|--------------|-------|----------|----------|----------|--------|------------|
| | Analyte | Result | | Quantitation | Units | Dilution | Prepared | Analyzed | Method | Qualifiers |

Pace Analytical - Madison

| | | acc mary t | icai - Mauisoi | | | | | | | |
|-------------|----------------------------------|--|---|---|--|--|--|--|--|--|
| Method 8082 | | | Preparation Batch: A006162 | | | | | | | |
| ND | 0.0072 | 0.13 | ug/L | 1 | 06/19/2020 | 06/19/2020 22:42 | EPA 8082A | | | |
| ND | 0.026 | 0.25 | ug/L | 1 | 06/19/2020 | 06/19/2020 22:42 | EPA 8082A | | | |
| ND | 0.0042 | 0.13 | ug/L | 1 | 06/19/2020 | 06/19/2020 22:42 | EPA 8082A | | | |
| ND | 0.013 | 0.13 | ug/L | 1 | 06/19/2020 | 06/19/2020 22:42 | EPA 8082A | | | |
| ND | 0.011 | 0.13 | ug/L | 1 | 06/19/2020 | 06/19/2020 22:42 | EPA 8082A | | | |
| ND | 0.010 | 0.13 | ug/L | 1 | 06/19/2020 | 06/19/2020 22:42 | EPA 8082A | | | |
| ND | 0.012 | 0.13 | ug/L | 1 | 06/19/2020 | 06/19/2020 22:42 | EPA 8082A | | | |
| ND | 0.026 | 0.25 | ug/L | 1 | 06/19/2020 | 06/19/2020 22:42 | EPA 8082A | | | |
| | | 93.2 % | 64.9-137 | | 06/19/2020 | 06/19/2020 22:42 | EPA 8082A | | | |
| | | 103 % | 67.4-146 | | 06/19/2020 | 06/19/2020 22:42 | EPA 8082A | | | |
| | ND ND ND ND ND ND | ND 0.0072 ND 0.026 ND 0.0042 ND 0.013 ND 0.011 ND 0.010 ND 0.010 | ND 0.0072 0.13 ND 0.026 0.25 ND 0.0042 0.13 ND 0.013 0.13 ND 0.011 0.13 ND 0.010 0.13 ND 0.010 0.13 ND 0.012 0.13 ND 0.026 0.25 | ND 0.0072 0.13 ug/L ND 0.026 0.25 ug/L ND 0.0042 0.13 ug/L ND 0.013 0.13 ug/L ND 0.011 0.13 ug/L ND 0.010 0.13 ug/L ND 0.010 0.13 ug/L ND 0.012 0.13 ug/L ND 0.026 0.25 ug/L 93.2 % 64.9-137 | ND 0.0072 0.13 ug/L 1 ND 0.026 0.25 ug/L 1 ND 0.0042 0.13 ug/L 1 ND 0.013 0.13 ug/L 1 ND 0.011 0.13 ug/L 1 ND 0.010 0.13 ug/L 1 ND 0.010 0.13 ug/L 1 ND 0.012 0.13 ug/L 1 ND 0.026 0.25 ug/L 1 93.2 % 64.9-137 | ND 0.0072 0.13 ug/L 1 06/19/2020 ND 0.026 0.25 ug/L 1 06/19/2020 ND 0.0042 0.13 ug/L 1 06/19/2020 ND 0.013 0.13 ug/L 1 06/19/2020 ND 0.011 0.13 ug/L 1 06/19/2020 ND 0.010 0.13 ug/L 1 06/19/2020 ND 0.010 0.13 ug/L 1 06/19/2020 ND 0.012 0.13 ug/L 1 06/19/2020 ND 0.012 0.13 ug/L 1 06/19/2020 ND 0.026 0.25 ug/L 1 06/19/2020 93.2 % 64.9-137 06/19/2020 | ND 0.0072 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 ND 0.026 0.25 ug/L 1 06/19/2020 06/19/2020 22:42 ND 0.0042 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 ND 0.013 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 ND 0.011 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 ND 0.010 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 ND 0.010 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 ND 0.012 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 ND 0.012 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 ND 0.012 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 ND 0.026 0.25 ug/L 1 06/19/2020 06/19/2020 22:42 | ND 0.0072 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 EPA 8082A ND 0.026 0.25 ug/L 1 06/19/2020 06/19/2020 22:42 EPA 8082A ND 0.0042 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 EPA 8082A ND 0.013 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 EPA 8082A ND 0.011 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 EPA 8082A ND 0.010 0.11 ug/L 1 06/19/2020 06/19/2020 22:42 EPA 8082A ND 0.010 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 EPA 8082A ND 0.010 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 EPA 8082A ND 0.012 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 EPA 8082A ND 0.012 0.13 ug/L 1 06/19/2020 06/19/2020 22:42 EPA 8082A ND 0.026 0.25 ug/L 1 06/19/2020 06/19/2020 22:42 EPA 8082A | | |



Project: MKC Raingarden - Madison, WI

708 Heartland Trail, Ste 3000 Madison WI, 53717 Project Number: 372148 PL.3 TSK.2 Project Manager: Andrew Stehn

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control $\,$

Pace Analytical - Madison

| Analyte | Result | Limit of Quantitation | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|---------|-----------------------|-----------|----------------|------------------|-------------|----------------|------|--------------|--------|
| • | resurt | Quantitation | , J.m. | 20,01 | result | , ,,,,,,,,, | Lime | | | 110103 |
| Batch A006156 - EPA 3570 | | | | | | | | | | |
| Blank (A006156-BLK1) | | | Prep | pared: 06/18 | 3/2020 Ana | alyzed: 06/ | 19/2020 01:1 | 0 | | |
| PCB-1016 | ND | 0.10 | mg/kg wet | | | | | | | |
| PCB-1221 | ND | 0.10 | mg/kg wet | | | | | | | |
| PCB-1232 | ND | 0.10 | mg/kg wet | | | | | | | |
| PCB-1242 | ND | 0.10 | mg/kg wet | | | | | | | |
| PCB-1248 | ND | 0.10 | mg/kg wet | | | | | | | |
| PCB-1254 | ND | 0.10 | mg/kg wet | | | | | | | |
| PCB-1260 | ND | 0.10 | mg/kg wet | | | | | | | |
| Total PCBs | ND | 0.10 | mg/kg wet | | | | | | | |
| Surrogate: Tetrachloro-meta-xylene | 0.250 | | mg/kg wet | 0.2395 | | 104 | 70.6-121 | | | |
| Surrogate: Decachlorobiphenyl | 0.259 | | mg/kg wet | 0.2395 | | 108 | 64.2-121 | | | |
| LCS (A006156-BS1) | | | Prep | pared: 06/18 | 3/2020 Ana | alyzed: 06/ | 19/2020 00:4 | 15 | | |
| PCB-1242 | 2.08 | 0.10 | mg/kg wet | 1.996 | | 104 | 82.7-118 | | | |
| Surrogate: Tetrachloro-meta-xylene | 0.232 | | mg/kg wet | 0.2395 | | 96.9 | 70.6-121 | | | |
| Surrogate: Decachlorobiphenyl | 0.239 | | mg/kg wet | 0.2395 | | 99.7 | 64.2-121 | | | |
| Matrix Spike (A006156-MS1) | Source: | A202413-02 | Prep | oared: 06/18 | 3/2020 Ana | alyzed: 06/ | 19/2020 02:2 | 25 | | |
| PCB-1242 | 2.87 | 0.13 | mg/kg dry | 2.557 | ND | 112 | 61.9-148 | | | |
| Surrogate: Tetrachloro-meta-xylene | 0.334 | | mg/kg dry | 0.3068 | | 109 | 70.6-121 | | | |
| Surrogate: Decachlorobiphenyl | 0.312 | | mg/kg dry | 0.3068 | | 102 | 64.2-121 | | | |
| Matrix Spike Dup (A006156-MSD1) | Source: | A202413-02 | Prep | pared: 06/18 | 3/2020 Ana | alyzed: 06/ | 19/2020 02:5 | 51 | | |
| PCB-1242 | 3.22 | 0.13 | mg/kg dry | 2.547 | ND | 127 | 61.9-148 | 11.7 | 20 | |
| urrogate: Tetrachloro-meta-xylene | 0.367 | | mg/kg dry | 0.3056 | | 120 | 70.6-121 | | | |
| Surrogate: Decachlorobiphenyl | 0.332 | | mg/kg dry | 0.3056 | | 109 | 64.2-121 | | | |
| Batch A006162 - EPA 3511 | | | | | | | | | | |
| Blank (A006162-BLK1) | | | Prep | pared: 06/19 |)/2020 Ana | alyzed: 06/ | 19/2020 22:1 | .7 | | |
| PCB-1016 | ND | 0.13 | ug/L | | | | | | | |
| PCB-1221 | ND | 0.25 | ug/L | | | | | | | |
| PCB-1232 | ND | 0.13 | ug/L | | | | | | | |
| PCB-1242 | ND | 0.13 | ug/L | | | | | | | |
| PCB-1248 | ND | 0.13 | ug/L | | | | | | | |
| PCB-1254 | ND | 0.13 | ug/L | | | | | | | |
| PCB-1260 | ND | 0.13 | ug/L | | | | | | | |
| Total PCBs | ND | 0.25 | ug/L | | | | | | | |
| Gurrogate: Tetrachloro-meta-xylene | 0.766 | | ug/L | 0.7500 | | 102 | 64.9-137 | | | |
| Surrogate: Decachlorobiphenyl | 0.856 | | ug/L | 0.7500 | | 114 | 67.4-146 | | | |



Project: MKC Raingarden - Madison, WI

708 Heartland Trail, Ste 3000 Madison WI, 53717 Project Number: 372148 PL.3 TSK.2 Project Manager: Andrew Stehn

${\bf Polychlorinated\ Biphenyls\ by\ EPA\ Method\ 8082-Quality\ Control}$

Pace Analytical - Madison

| Analyte | Result | Limit of Quantitation | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|------------------------------------|-----------|--------------------------|--------|----------------|------------------|-------------|----------------|------|--------------|-------|
| Batch A006162 - EPA 3511 | | | | | | | | | | |
| LCS (A006162-BS1) | | | Pre | pared: 06/19 | 0/2020 Ana | alyzed: 06/ | 19/2020 21:5 | 52 | | |
| PCB-1242 | 14.1 | 0.13 | ug/L | 12.50 | | 113 | 70-130 | | | |
| Surrogate: Tetrachloro-meta-xylene | 0.809 | | ug/L | 0.7500 | | 108 | 64.9-137 | | | |
| Surrogate: Decachlorobiphenyl | 0.861 | | ug/L | 0.7500 | | 115 | 67.4-146 | | | |
| Matrix Spike (A006162-MS1) | Source: A | A202413-03 | Pre | pared: 06/19 | 0/2020 Ana | alyzed: 06/ | 19/2020 23:0 |)7 | | |
| PCB-1242 | 11.6 | 0.13 | ug/L | 12.50 | ND | 93.0 | 60-140 | | · | |
| Surrogate: Tetrachloro-meta-xylene | 0.546 | | ug/L | 0.7500 | | 72.8 | 64.9-137 | | | |
| Surrogate: Decachlorobiphenyl | 0.587 | | ug/L | 0.7500 | | 78.2 | 67.4-146 | | | |
| Matrix Spike Dup (A006162-MSD1) | Source: A | A202413-03 | Pre | pared: 06/19 | 0/2020 Ana | alyzed: 06/ | 19/2020 23:3 | 32 | | |
| PCB-1242 | 12.7 | 0.13 | ug/L | 12.50 | ND | 101 | 60-140 | 8.47 | 20 | |
| Surrogate: Tetrachloro-meta-xylene | 0.627 | | ug/L | 0.7500 | | 83.5 | 64.9-137 | | | |
| | 0.027 | | 118/12 | 0.7200 | | | | | | |



708 Heartland Trail, Ste 3000 Madison WI, 53717 Project: MKC Raingarden - Madison, WI

Project Number: 372148 PL.3 TSK.2 Project Manager: Andrew Stehn

Classical Chemistry Parameters - Quality Control

Pace Analytical - Madison

| | Limit of | | Spike | Source | | %REC | | RPD | |
|----------------|----------|-------|-------|--------|------|--------|-----|-------|-------|
| Analyte Result | | Units | Level | Result | %REC | Limits | RPD | Limit | Notes |

Batch A006150 - % Solids

| Duplicate (A006150-DUP1) | Source: A20240 | 14-78 Prepared: 06/1 | 6/2020 Analyzed: 06/17/2020 11:5 | 52 | |
|--------------------------|----------------|-----------------------------|----------------------------------|-------|----|
| % Solids | 93.1 | 0.00 % by Weight | 93.9 | 0.816 | 20 |





TRC Environmental Corporation, Inc.

Project: MKC Raingarden - Madison, WI

708 Heartland Trail, Ste 3000 Project Number: 372148 PL.3 TSK.2 Madison WI, 53717 Project Manager: Andrew Stehn

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit or limit of detection (if listed).

NR Not Reported

dry Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.

RPD Relative Percent Difference

Face Analytical* ECCS Mobile Lab Servicas

Pace Analytical - ECCS Division

2525 Advance Road Madison, WI 53718 608-221-8700 (phone)

CHAIN OF CUSTODY

No. 10331

Page: \ of:

| 608-221-4889 (fax) | | | | | Lab Work Order #: | | | | Report To: Andrew Stehn | | | | |
|--|---------------------|------------------|-----------------------|------------------|--|-----------------|------------|--------------|--|------------|-------------|--|--|
| Project Number: 372148 PL.3 TSK. 2 PO Number: 149619 | | | | | AZUZTIS | | | | Company: TIC | | | | |
| Project Name: Muc = Ray Corder | | | | | Preservation Codes | | | | Address 1: 708 Heartland Trail | | | | |
| Project Location (City, State): Madison, wt | | | | | Analyses Requested Address 2: Suite 3000 | | | | | | | | |
| Turn Around (check one): ☑ Normal ☐ Rush | | | | | | | | | E-mail Address: asteln @ trccompanies, cum | | | | |
| | | | | | | | | | Invoice To: | | | | |
| If Rush, Report Due Date: | | | | | | | | | Company: | | | | |
| Sampled By (Print): Andrew Stehn | | | | 8 | | | | | Address 1: Some as above | | | | |
| | | _{.×} | Total # of Containers | PcB. | | | | | Address 2: | | | | |
| Sample Description | Collection Date Tin | e Matrix | Tota | 9 | | .] | | | Comments | Lab ID | Lab Receipt | | |
| outfall (- (6-9-20) | 6/9/20 135 | 0 0 | 1 | X | | | | | Commens | | Time | | |
| MH-1A (6-9-20) OUTFULL (6/10/20) | 6/9/20 1416 | | 1, | <i>V</i> | | \dashv | | | | 61 | | | |
| 00+6-11 (6/10/2) | | | _ | $\frac{1}{2}$ | | | + | | | 02 | | | |
| Cetto (ce) | 6/10/20 9:0 | 6 W | 14 | X | | | | | | 03 | | | |
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| | | | | | | | T | | | | | | |
| | | | - | | | - | - | | | | | | |
| Preservation Codes Other Comments: | Polinguished D | | | | | | | | | | | | |
| A=None B=HCL C=H ₂ SO ₄ | Relinquished By: | | | Date: し/10/20 | | 1 | | Received By: | | Time: | | | |
| D=HNO ₃ E=EnCore F=Methanol G=NaOH O=Other (Indicate) | Relinquished By: | Relinquished By: | | | | | 70:00 Ro | | PACE Propost | Date: | Timor | | |
| Matrix Codes | | | | | | | | ı | 1/1/2/1/20 1/6:25 | | | | |
| A=Air S=Soil W=Water O=Other | | | | $ \mathcal{Q} $ | hipped V | ла. Л | Heceipt 4, | | : Thermometer #/ Exp. Date: \$/N/60142274 Exp.6/ | 20/20 Temp | Blank: | | |
| | | | | | | | | | | / LT Y | LJ IV | | |

Rev. 12/15