

From: Michael, Greg S - DNR
Sent: Tuesday, November 22, 2022 3:14 PM
To: Meyer, Jennifer S - DNR
Subject: Pending case removal.

Follow Up Flag: Follow up
Flag Status: Completed

Hi Jenny,
Would you please pull the Clement J Zablocki VA Medical Center; 2022118_1_Notification from the pending sites folder. Put the information as a 99 in 02-41-563846. Add in PCBs (soils) on to the case substance list. The case arrangement has been discussed with Adam, Alice, and confirmed by Pam.

Thanks

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Greg Michael

Hydrogeologist

Wisconsin Department of Natural Resources

Remediation and Redevelopment

Phone: 414.405.1203



Emergency Discharges / Spills should be reported via the 24-Hour Hotline: 1-800-943-0003

Notice: Hazardous substance discharges must be reported immediately according to s. 292.11 Wis. Stats. Non-emergency hazardous substance discharges may be reported by telefaxing or e-mailing a completed report to the Department, or calling or visiting a Department office in person. If you choose to notify the Department by telefax or by email, you should use this form to be sure that all necessary information is included. However, use of this form is not mandatory. Under s. 292.99, Wis. Stats., the penalty for violating the reporting requirements of ch. 292 Wis. Stats., shall be no less than \$10 nor more than \$5000 for each violation. Each day of continued violation is a separate offense. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than program administration. However, information submitted on this form may also be made available to requesters under Wisconsin's Public Records Law (ss. 19.31 – 19.39, Wis. Stats.).

Confirmatory laboratory data should be included with this form, to assist the DNR in processing this Hazardous Substance Release Notification.

Complete this form. **TYPE or PRINT LEGIBLY.** NOTIFY appropriate DNR region (see next page) **IMMEDIATELY** upon discovery of a potential release from (**check one**):

- Underground Petroleum Storage Tank System (additional information may be required for Item 6 below)
- Aboveground Petroleum Storage Tank System
- Dry Cleaner Facility
- Other - Describe: Historic Fill

ATTN DNR: **R & R Program Associate** Date DNR Notified: 11/4/2022

1. Discharge Reported By		
Name Robert T. Reineke, P.E.	Firm K. Singh & Associates, Inc.	Phone Number (include area code) (262) 821-1171
Mailing Address 3636 N. 124th St. Wauwatosa, WI 53222		Email rreineke@ksinghengineering.com

2. Site Information
 Name of site at which discharge occurred. Include local name of site/business, not responsible party name, unless a residence/vacant property.

Clement J Zablocki VA Medical Center
 Location: Include street address, not PO Box. If no street address, describe as precisely as possible, i.e., 1/4 mile NW of CTHs 60 & 123 on E side of CTH 60.
 5000 W. National Ave.
 Municipality: (City, Village, Township) Specify municipality in which the site is located, not mailing address/city.

Milwaukee		County		Legal Description:		WTM:	
Milwaukee		NW ¼ of SE ¼ Section 35 , Town 07 N, Range 21		<input checked="" type="radio"/> E <input type="radio"/> W		X 684834 Y 285147	

3. Responsible Party (RP) and/or RP Representative

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Clement J Zablocki VA Medical Center

A local governmental unit claiming an exemption from state Spill Law and Solid Waste Management responsibilities for the discharge being reported, per Wis. Stat. §§ 292.11(9)(e) and 292.23, should: 1) check this box; 2) review [DNR publication RR-055](#); and 3) provide documentation to DNR that demonstrates compliance with the statutory requirements of the liability exemptions. Local governmental units may also request a fee-based liability clarification letter from DNR by using [DNR Form 4400-237](#).

Contact Person Name (if different) James Fay, CIH, REHS		Phone Number (414) 384-2000 ext. 45891		Email James.Fay@va.gov	
Mailing Address 5000 W. National Ave.			City Milwaukee		State WI
					ZIP Code 53295

Responsible Party Name: Business or owner name that is responsible for cleanup. If more than one, list all. Attach additional pages as necessary.

Same

Contact Person Name (if different)		Phone Number		Email	
Mailing Address			City		State
					ZIP Code

Notification For Hazardous Substance Discharge (Non-Emergency Only)

4. Hazardous Substance Information

Identify hazardous substance discharged (check all that apply):

- | | | |
|--|---|--|
| <input type="checkbox"/> VOCs | (VOCs continued) | <input type="checkbox"/> Metals |
| <input type="checkbox"/> PCE | <input type="checkbox"/> Mineral Oil | <input type="checkbox"/> Arsenic |
| <input type="checkbox"/> TCE | <input type="checkbox"/> Waste Oil | <input type="checkbox"/> Chromium |
| <input type="checkbox"/> Other Chlorinated | <input type="checkbox"/> Petroleum-Unknown Type | <input type="checkbox"/> Lead |
| <input type="checkbox"/> Diesel | <input type="checkbox"/> 1,4-dioxane | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> Fuel Oil | <input type="checkbox"/> PAHs | <input type="checkbox"/> Pesticides: _____ |
| <input type="checkbox"/> Gasoline | <input checked="" type="checkbox"/> PCBs | <input type="checkbox"/> Fertilizer: _____ |
| <input type="checkbox"/> Hydraulic Oil | <input type="checkbox"/> Cyanide | <input type="checkbox"/> RCRA Hazardous Waste: _____ |
| <input type="checkbox"/> Jet Fuel | <input type="checkbox"/> Leachate | <input type="checkbox"/> Other: _____ |
| | <input type="checkbox"/> Manure | <input type="checkbox"/> Unknown |

5. Impacts to the Environment Information

Enter "K" for known/confirmed or "P" for potential for all that apply.

- | | | |
|--|---|--|
| <input type="checkbox"/> Air Contamination | <input type="checkbox"/> Fire Explosion Threat | <input checked="" type="checkbox"/> Soil Contamination |
| <input type="checkbox"/> Co-mingled (Petroleum & Non-Petroleum) | <input type="checkbox"/> Free Product | <input type="checkbox"/> Soil Gas Contamination |
| <input type="checkbox"/> Contamination in Fractured Bedrock | <input type="checkbox"/> Groundwater Contamination | <input type="checkbox"/> Sub-slab Vapor Contamination |
| <input type="checkbox"/> Contamination Within 1 Meter of Bedrock | <input type="checkbox"/> Off-Site Contamination | <input type="checkbox"/> Surface Water Contamination |
| <input type="checkbox"/> Contaminated Private Well | <input type="checkbox"/> Sanitary Sewer Contamination | <input type="checkbox"/> Within 100 ft of Private Well |
| <input type="checkbox"/> Contaminated Public Well | <input type="checkbox"/> Storm Sewer Contamination | <input type="checkbox"/> Within 1000 ft of Public Well |
| <input type="checkbox"/> Contamination in Right of Way | <input type="checkbox"/> Sediment Contamination | |
| | Other (specify): _____ | |

Contamination was discovered as a result of:

- Tank closure assessment Site assessment Other - Describe: Materials Characterization Report
- Date Date Date

Lab results: Lab results will be faxed upon receipt Lab results are attached

Additional Comments: Include a brief description of immediate actions taken to halt the release and contain or cleanup hazardous substances that have been discharged.

Please add PCBs (in soils) to the substance list in BRRTS: 02-41-563846 Clement J Zablocki VA Medical Center. Attached are Tables of the soil and groundwater and analytical reports for reference included with this submittal.

6. Federal Energy Act Requirements (Section 9002(d) of the Solid Waste Disposal Act (SWDA))

- | | Source | Cause |
|--|---|---|
| For all confirmed releases from USTs occurring after 9/30/2007 please provide the following information: | <input type="checkbox"/> Tank | <input type="checkbox"/> Spill |
| | <input type="checkbox"/> Piping | <input type="checkbox"/> Overfill |
| | <input type="checkbox"/> Dispenser | <input type="checkbox"/> Corrosion |
| | <input type="checkbox"/> Submersible Turbine Pump | <input type="checkbox"/> Physical or Mechanical Damage |
| | <input type="checkbox"/> Delivery Problem | <input type="checkbox"/> Installation Problem |
| | | <input checked="" type="checkbox"/> Other (does not fit any of above) |
| <input type="checkbox"/> Does not apply. | <input checked="" type="checkbox"/> Other (specify): <u>Historic Fill</u> | <input type="checkbox"/> Unknown |

Submit this completed form along with any associate lab results using the RR Program Submittal Portal, found on the DNR website at <https://dnr.wisconsin.gov/topic/Brownfields/Submittal.html>.

If you have any questions, please contact the appropriate regional Environmental Program Associate (EPA) listed under the "EPAs" tab at <https://dnr.wisconsin.gov/topic/Brownfields/Contact.html>.

LETTER OF TRANSMITTAL

DATE : **November 4, 2022**

TO : Mr. Tony Jazdyk, P.E.
Project Manager
Milwaukee Metropolitan Sewerage District
260 West Seeboth Street
Milwaukee, WI 53204

FROM : Robert T. Reineke, P.E. | Senior Engineer

SUBJECT : Notification For Hazardous Substance Discharge (Non-Emergency Only)
Veterans Affairs Grounds MIS Relocation
MMSD Project No. C06023D01
5000 W. National Avenue, Milwaukee, Wisconsin

COPY TO : File 40459

We are:

Attaching Submitting As Requested

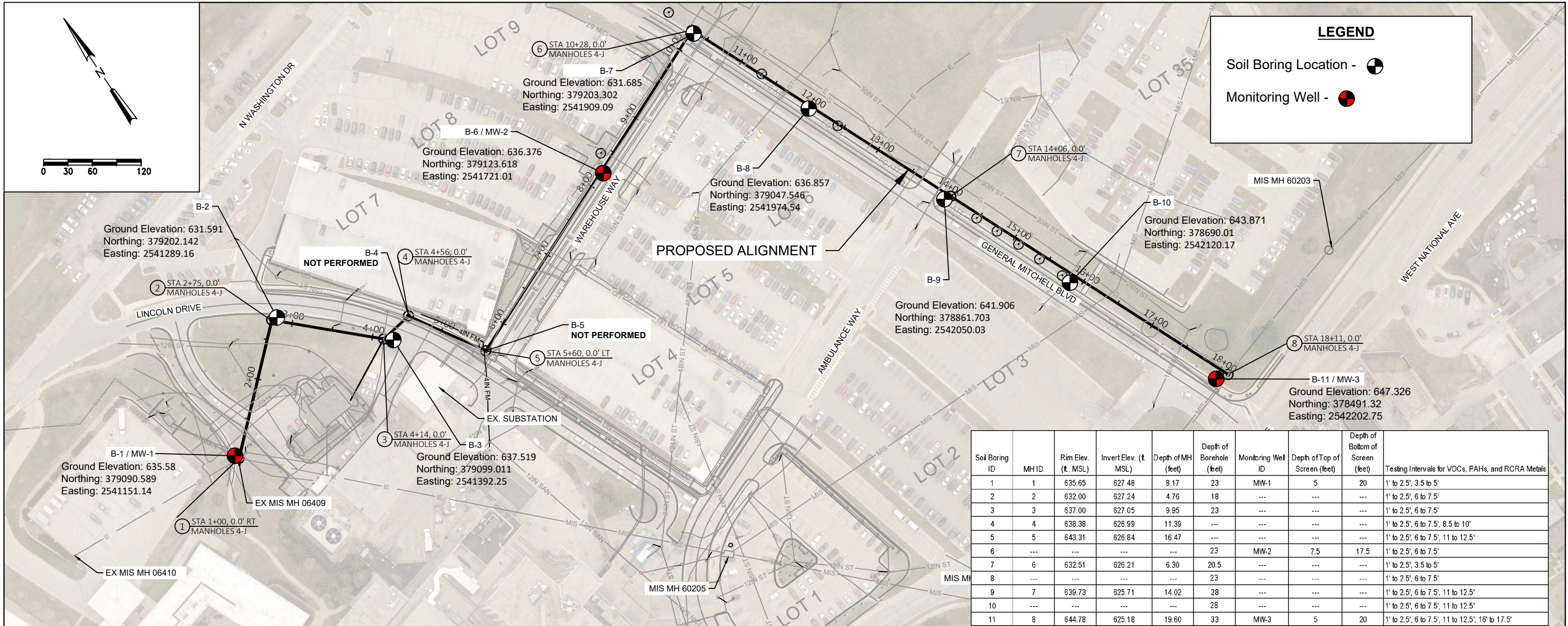
Copies	Date	Description
1	11/4/2022	Notification For Hazardous Substance Discharge (Form 4400-225)

Transmitted For Your:

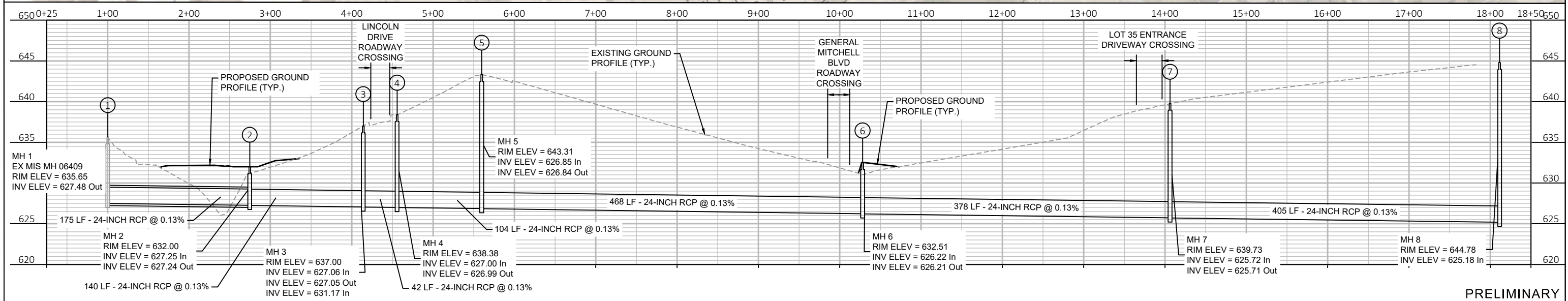
Information/Records Review Approval
 Action Revision/Resubmittal Distribution

Remarks:

Should you have any questions regarding this submittal or require any additional information, please feel free to contact me via email at rreineke@ksinghengineering.com or telephone at (262) 821-1171, ext. 111.



Soil Boring ID	MH ID	Rim Elev. (ft. MSL)	Invert Elev. (ft. MSL)	Depth of MH (feet)	Depth of Borehole (feet)	Monitoring Well ID	Depth of Top of Screen (feet)	Depth of Bottom of Screen (feet)	Testing Intervals for VOCs, PAHs, and RCRA Metals
1	1	635.65	627.48	8.17	23	MW-1	5	20	1' to 2.5', 3.5 to 5'
2	2	632.00	627.24	4.76	18	---	---	---	1' to 2.5', 6 to 7.5'
3	3	637.00	627.05	9.95	23	---	---	---	1' to 2.5', 6 to 7.5'
4	4	638.38	626.99	11.39	---	---	---	---	1' to 2.5', 6 to 7.5', 8.5 to 10'
5	5	643.31	626.84	16.47	---	---	---	---	1' to 2.5', 6 to 7.5', 11 to 12.5'
6	---	---	---	---	23	MW-2	7.5	17.5	1' to 2.5', 6 to 7.5'
7	6	632.51	626.21	6.30	20.5	---	---	---	1' to 2.5', 3.5 to 5'
8	---	---	---	---	23	---	---	---	1' to 2.5', 6 to 7.5'
9	7	639.73	625.71	14.02	28	---	---	---	1' to 2.5', 6 to 7.5', 11 to 12.5'
10	---	---	---	---	28	---	---	---	1' to 2.5', 6 to 7.5', 11 to 12.5'
11	8	644.78	625.18	19.60	33	MW-3	5	20	1' to 2.5', 6 to 7.5', 11 to 12.5', 16' to 17.5'



PRELIMINARY

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN IS AN INSTRUMENT OF PROFESSIONAL SERVICE AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THE MILWAUKEE METROPOLITAN SEWERAGE DISTRICT.	HORIZONTAL DATUM NAD27 WISCONSIN STATE PLANE SOUTH ZONE COORDINATE SYSTEM VERTICAL DATUM NGVD29 NATIONAL GEODETIC VERTICAL DATUM ON 1929	DSGN S.SCHARCH DR S.SCHARCH CHK A. SINGH	This Design Prepared For MMSD By: 	REV. NO. DATE REVISION DESCRIPTION BY APVD		MILWAUKEE METROPOLITAN SEWERAGE DISTRICT METROPOLITAN INTERCEPTOR SEWER SYSTEM VETERANS AFFAIRS GROUNDS MIS RELOCATION LOCATIONS OF SOIL BORINGS AND MONITORING WELLS	DRAWING NO.: FIGURE 3 SHEET: 02 DATE: MARCH 15, 2022 CONTRACT: C06023D01 MMSD FILE: PII ESA FIGURE 2.DWG
		<p style="text-align: right;">PRELIMINARY</p>					

TABLES

Table 1
 Groundwater Elevations Summary Table
 MMSD VA Grounds MIS Relocation
 MMSD Contract #C06023D01

Monitoring Well	State Plane Coordinates**		Surface Elevation (feet, MSL)	PVC Elevation (feet, MSL)	Surface to Top of Screen (feet)	Top of Screen (feet, MSL)	Bottom of Screen (feet, MSL)	PVC Elevation (feet, MMSD)	Top of Screen (feet, MMSD)	Bottom of Screen (feet, MMSD)	Groundwater Depth (3/29/22) (feet)	Groundwater Elevation (3/29/2022) (feet, MMSD)	Groundwater Elevation (3/29/2022) (feet, MSL)	Groundwater Depth (4/04/2022) (feet)	Groundwater Elevation (04/04/2022) (feet, MMSD)	Groundwater Elevation (04/04/2022) (feet, MSL)	Groundwater Depth (4/11/2022) (feet)	Groundwater Elevation (04/11/2022) (feet, MMSD)	Groundwater Elevation (04/11/2022) (feet, MSL)
	Northing (feet)	Easting (feet)																	
MW-1	379090.59	2541151.14	635.58	635.14	5.00	630.58	615.58	54.54	49.98	34.98	4.63	49.91	630.52	3.10	51.44	632.05	3.91	50.63	631.24
MW-2	379123.62	2541721.01	636.38	635.97	5.00	631.38	616.38	55.37	50.78	35.78	7.02	48.35	628.96	6.22	49.15	629.76	5.91	49.46	630.07
MW-3	378491.32	2542202.75	647.33	646.82	10.00	637.33	627.33	66.21	56.73	46.73	12.29	53.92	634.53	12.21	54.00	634.61	11.75	54.46	635.07

MMSD Datum = 580.60 feet, MSL
 **North American Datum (NAD) 83

Table 2
Summary of Soil Quality Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Analyte	Sample ID	NR 720 RCLs for Groundwater Protection (1)	NR 720 RCLs - Non- Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value (1)	NR 661.0024 Toxicity Characteristic	Method	B-1	B-1	B-1	B-2	B-2	B-3	B-3	B-3	B-6	B-6
	Depth (feet)							1-2.5'	3.5-5'	6-7.5'	1-2.5'	5.5-7'	1-2.5'	8.5-10'	15.5-17'	1-2.5'	6-7.5'
	Date							3/22/2022	3/22/2022	3/22/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/22/2022	3/22/2022
	UNITS							500-214086-7	500-214086-8	500-214086-9	500-214387-13	500-214387-14	500-214387-11	500-214387-12	500-214387-15	500-214086-5	500-214086-6
Physical Characteristics																	
Moisture, Percent	%	---	---	---	---	---	Moisture	15.3	18.9	18.2	14.1	15.5	10	16.3	16.1	14.6	16.7
Solids, Percent	%	---	---	---	---	---	Moisture	84.7	81.1	81.8	85.9	84.5	90.0	83.7	83.9	85.4	83.3
Metals																	
Arsenic	mg/kg	0.584	0.677	3	8	---	EPA 6010B	5	5	---	3.7	3.8	2.3	5.8	5.8	5.3	3.2
Barium	mg/kg	164.8	15,300	100,000	364	---	EPA 6010B	62	62	---	56	54	21	61	23	78	97
Cadmium	mg/kg	0.752	71.1	985	1	---	EPA 6010B	<0.040	<0.040	---	0.12 J B	0.11 J B	0.16 J B	0.11 J B	0.22 B	<0.040	<0.041
Chromium	mg/kg	360,000*	---	---	44	---	EPA 6010B	23 B	23 B	---	23 B	21 B	8.6 B	26 B	14 B	20	23 B
Lead	mg/kg	27	400	800	51.6	---	EPA 6010B	11	11	---	10	9	12	12	9.4	18	8.5
Selenium	mg/kg	0.52	391	5840	---	---	EPA 6010B	<0.65	<0.65	---	<0.67	<0.59	<0.59	<0.61	<0.61	<0.65	<0.66
Silver	mg/kg	0.8491	391	5,840	---	---	EPA 6010B	0.21 J	0.21 J	---	0.26 J	0.30 J	<0.13	0.41 J	0.17 J	0.29 J	0.27 J
Mercury	mg/kg	0.208	3.13	3.13	---	---	EPA 7471A	0.059	0.018	---	0.024	0.029	0.02	0.027	0.02	0.03	0.02
Polychlorinated Biphenyls (PCBs)																	
PCB-1016	mg/kg	0.009384	4.11	28	---	---	EPA 8082A	---	<0.0062	<0.0075	<0.0076	---	<0.0070	<0.0076	<0.0074	<0.0074	<0.0077
PCB-1221	mg/kg		0.213	0.883	---	---	EPA 8082A	---	<0.0062	<0.0075	<0.0076	---	<0.0070	<0.0076	<0.0074	<0.0074	<0.0077
PCB-1232	mg/kg		0.19	0.792	---	---	EPA 8082A	---	<0.0043	<0.0052	<0.0052	---	<0.0048	<0.0052	<0.0051	<0.0051	<0.0053
PCB-1242	mg/kg		0.235	0.972	---	---	EPA 8082A	---	<0.0061	<0.0075	<0.0075	---	<0.0069	<0.0075	<0.0074	<0.0073	<0.0076
PCB-1248	mg/kg		0.236	0.975	---	---	EPA 8082A	---	<0.0075	<0.0091	<0.0092	---	<0.0085	<0.0092	<0.0090	<0.0089	<0.0093
PCB-1254	mg/kg		0.239	0.988	---	---	EPA 8082A	---	<0.0053	<0.0065	<0.0065	---	<0.0061	<0.0065	<0.0064	<0.0064	<0.0067
PCB-1260	mg/kg		0.243	1	---	---	EPA 8082A	---	<0.0059	0.086	<0.0073	---	<0.0067	<0.0073	<0.0071	<0.0071	<0.0074
PCB-1268	mg/kg		---	---	---	---	EPA 8082A	---	---	---	---	---	---	---	---	---	---
Total PCBs	mg/kg	0.009384	---	---	---	---	EPA 8082A	---	<0.0043	0.086	<0.0052	---	<0.0048	<0.0052	<0.0051	<0.0051	<0.0053
Polynuclear Aromatic Hydrocarbons (PAHs)																	
1-Methylnaphthalene	mg/kg	---	17.6	72.7	---	---	EPA 8270D	0.016 J	<0.0095	---	<0.0089	<0.0091	<0.0085	<0.0096	<0.0096	<0.0093	<0.0093
2-Methylnaphthalene	mg/kg	---	239	3010	---	---	EPA 8270D	0.012 J	<0.0071	---	<0.0067	<0.0068	<0.0064	<0.0072	<0.0072	<0.0070	<0.0070
Acenaphthene	mg/kg	---	3590	45200	---	---	EPA 8270D	0.13	<0.0070	---	<0.0065	<0.0067	<0.0063	<0.0071	<0.0071	0.011 J	0.028 J
Acenaphthylene	mg/kg	---	---	---	---	---	EPA 8270D	0.028 J	<0.0051	---	<0.0048	<0.0049	0.0057 J	<0.0052	0.0066 J	0.0052 J	<0.0050
Anthracene	mg/kg	196.949	17900	100000	---	---	EPA 8270D	0.49	<0.0065	---	<0.0061	0.018 J	0.013 J	<0.0066	0.021 J	0.043	0.15
Benzo[a]anthracene	mg/kg	---	1.14	20.8	---	---	EPA 8270D	0.97	<0.0052	---	0.035 J	0.053	0.085	<0.0053	0.027 J	0.14	0.34
Benzo[a]pyrene	mg/kg	0.47	0.115	2.11	---	---	EPA 8270D	0.92	<0.0075	---	0.035 J	0.053	0.11	<0.0076	0.023 J	0.19	0.34
Benzo[b]fluoranthene	mg/kg	0.4781	1.15	21.1	---	---	EPA 8270D	1.3	<0.0084	---	0.044	0.062	0.14	<0.0085	<0.0085	0.22	0.46
Benzo[g,h,i]perylene	mg/kg	---	---	---	---	---	EPA 8270D	0.24	<0.013	---	0.021 J	0.028 J	0.052	<0.013	<0.013	0.058	0.097
Benzo[k]fluoranthene	mg/kg	---	11.5	211	---	---	EPA 8270D	0.53	<0.011	---	0.019 J	0.029 J	0.060	<0.012	<0.012	0.12	0.26
Chrysene	mg/kg	0.1442	115	2110	---	---	EPA 8270D	1.0	<0.011	---	0.047	0.068	0.13	<0.011	<0.011	0.15	0.36
Dibenz[a,h]anthracene	mg/kg	---	0.115	2.11	---	---	EPA 8270D	0.14	<0.0075	---	<0.0070	0.0080 J	0.015 J	<0.0076	<0.0076	0.018 J	0.042
Fluoranthene	mg/kg	88.8778	2390	30100	---	---	EPA 8270D	2.1	0.036 J	---	0.075	0.14	0.23	0.014 J	0.056	0.35	0.90
Fluorene	mg/kg	14.8299	2390	30100	---	---	EPA 8270D	0.19	<0.0055	---	<0.0051	<0.0052	<0.0049	<0.0055	0.011 J	0.016 J	0.052
Indeno[1,2,3-cd]pyrene	mg/kg	---	1.15	21.1	---	---	EPA 8270D	0.30	<0.010	---	0.017 J	0.023 J	0.048	<0.010	<0.010	0.066	0.12
Naphthalene	mg/kg	0.6582	5.52	24.1	---	---	EPA 8270D	0.012 J	<0.0060	---	<0.0056	<0.0057	<0.0054	<0.0061	<0.0060	<0.0059	<0.0058
Phenanthrene	mg/kg	---	---	---	---	---	EPA 8270D	1.5	<0.0054	---	0.022 J	0.049	0.080	0.0081 J	0.040	0.17	0.38
Pyrene	mg/kg	54.5455	1790	22600	---	---	EPA 8270D	2.0	<0.0077	---	0.060	0.11	0.18	0.012 J	0.046	0.33	0.83

Table 2
Summary of Soil Quality Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Analyte	Sample ID	NR 720 RCLs for Groundwater Protection (1)	NR 720 RCLs - Non- Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value (1)	NR 661.0024 Toxicity Characteristic	Method	B-1	B-1	B-1	B-2	B-2	B-3	B-3	B-3	B-6	B-6
	Depth (feet)							1-2.5'	3.5-5'	6-7.5'	1-2.5'	5.5-7'	1-2.5'	8.5-10'	15.5-17'	1-2.5'	6-7.5'
	Date							3/22/2022	3/22/2022	3/22/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/22/2022	3/22/2022
	UNITS							500-214086-7	500-214086-8	500-214086-9	500-214387-13	500-214387-14	500-214387-11	500-214387-12	500-214387-15	500-214086-5	500-214086-6
Volatile Organic Compounds (VOCs)																	
1,1,1,2-Tetrachloroethane	mg/kg	0.0534	2.78	12.3	---	---	EPA 8260B	<0.031	<0.030	<0.031	<0.031	<0.032	<0.028	<0.032	<0.032	<0.031	<0.032
1,1,1-Trichloroethane	mg/kg	0.1402	640	640	---	---	EPA 8260B	<0.026	<0.025	<0.026	<0.026	<0.026	<0.023	<0.027	<0.026	<0.025	<0.027
1,1,2,2-Tetrachloroethane	mg/kg	0.0002	0.81	3.6	---	---	EPA 8260B	<0.027	<0.026	<0.027	<0.027	<0.028	<0.024	<0.028	<0.028	<0.026	<0.028
1,1,2-Trichloroethane	mg/kg	0.0032	1.59	7.01	---	---	EPA 8260B	<0.024	<0.023	<0.024	<0.024	<0.024	<0.021	<0.025	<0.024	<0.023	<0.025
1,1-Dichloroethane	mg/kg	0.4834	5.06	22.2	---	---	EPA 8260B	<0.028	<0.027	<0.028	<0.028	<0.028	<0.025	<0.029	<0.028	<0.027	<0.029
1,1-Dichloroethene	mg/kg	0.005	320	1,190	---	---	EPA 8260B	<0.026	<0.025	<0.026	<0.026	<0.027	<0.023	<0.027	<0.027	<0.026	<0.027
1,1-Dichloropropene	mg/kg	---	---	---	---	---	EPA 8260B	<0.020	<0.019	<0.020	<0.020	<0.021	<0.018	<0.021	<0.021	<0.020	<0.021
1,2,3-Trichlorobenzene	mg/kg	---	62.6	934	---	---	EPA 8260B	<0.031	<0.030	<0.031	<0.031	<0.032	<0.028	<0.032	<0.032	<0.030	<0.032
1,2,3-Trichloropropane	mg/kg	0.0519	0.005	0.109	---	---	EPA 8260B	<0.028	<0.027	<0.028	<0.028	<0.029	<0.025	<0.029	<0.029	<0.027	<0.029
1,2,4-Trichlorobenzene	mg/kg	0.408	24	113	---	---	EPA 8260B	<0.023	<0.022	<0.023	<0.023	<0.024	<0.021	<0.024	<0.024	<0.023	<0.024
1,2,4-Trimethylbenzene	mg/kg	1.3787**	219	219	---	---	EPA 8260B	<0.024	<0.023	<0.024	<0.024	<0.025	<0.022	<0.025	<0.025	<0.024	<0.025
1,2-Dibromo-3-chloropropane	mg/kg	0.0002	0.008	0.092	---	---	EPA 8260B	<0.13	<0.13	<0.13	<0.13	<0.14	<0.12	<0.14	<0.14	<0.13	<0.14
1,2-Dibromoethane	mg/kg	0.0000282	0.05	0.221	---	---	EPA 8260B	<0.026	<0.025	<0.026	<0.026	<0.027	<0.023	<0.027	<0.027	<0.026	<0.027
1,2-Dichlorobenzene	mg/kg	1.168	376	376	---	---	EPA 8260B	<0.023	<0.022	<0.023	<0.023	<0.023	<0.020	<0.023	<0.023	<0.022	<0.023
1,2-Dichloroethane	mg/kg	0.0028	0.652	2.87	---	---	EPA 8260B	<0.027	<0.025	<0.027	<0.026	<0.027	<0.024	<0.028	<0.027	<0.026	<0.028
1,2-Dichloropropane	mg/kg	0.0033	3.4	15	---	---	EPA 8260B	<0.029	<0.028	<0.029	<0.029	<0.030	<0.026	<0.030	<0.030	<0.028	<0.030
1,3,5-Trimethylbenzene	mg/kg	1.3787**	182	182	---	---	EPA 8260B	<0.026	<0.025	<0.026	<0.026	<0.026	<0.023	<0.027	<0.026	<0.025	<0.027
1,3-Dichlorobenzene	mg/kg	1.1528	297	297	---	---	EPA 8260B	<0.027	<0.026	<0.027	<0.027	<0.028	<0.024	<0.028	<0.028	<0.026	<0.028
1,3-Dichloropropane	mg/kg	0.0003	1,490	1,490	---	---	EPA 8260B	<0.025	<0.024	<0.025	<0.024	<0.025	<0.022	<0.025	<0.025	<0.024	<0.025
1,4-Dichlorobenzene	mg/kg	0.144	3.74	16.4	---	---	EPA 8260B	<0.025	<0.024	<0.025	<0.025	<0.025	<0.022	<0.026	<0.025	<0.024	<0.026
2,2-Dichloropropane	mg/kg	---	191	191	---	---	EPA 8260B	<0.030	<0.029	<0.030	<0.030	<0.031	<0.027	<0.031	<0.031	<0.029	<0.031
2-Chlorotoluene	mg/kg	---	907	907	---	---	EPA 8260B	<0.021	<0.020	<0.021	<0.021	<0.022	<0.019	<0.022	<0.022	<0.021	<0.022
4-Chlorotoluene	mg/kg	---	253	253	---	---	EPA 8260B	<0.024	<0.023	<0.024	<0.024	<0.024	<0.021	<0.025	<0.024	<0.023	<0.025
Benzene	mg/kg	0.0051	1.6	7.07	---	---	EPA 8260B	<0.0099	<0.0095	<0.0099	<0.0099	<0.010	<0.0088	<0.010	<0.010	<0.0096	<0.010
Bromobenzene	mg/kg	---	342	679	---	---	EPA 8260B	<0.024	<0.023	<0.024	<0.024	<0.025	<0.021	<0.025	<0.025	<0.024	<0.025
Bromochloromethane	mg/kg	---	216	906	---	---	EPA 8260B	<0.029	<0.028	<0.029	<0.029 *	<0.030 *	<0.026 *	<0.030 *	<0.030 *	<0.028	<0.030
Bromodichloromethane	mg/kg	0.0003	0.418	1.83	---	---	EPA 8260B	<0.025	<0.024	<0.025	<0.025	<0.026	<0.022	<0.026	<0.026	<0.025	<0.026
Bromoform	mg/kg	0.0023	25.4	113	---	---	EPA 8260B	<0.033	<0.031	<0.033	<0.033	<0.034	<0.029	<0.034	<0.033	<0.032	<0.034
Bromomethane	mg/kg	0.0051	9.6	43	---	---	EPA 8260B	<0.054	<0.052	<0.054	<0.054 *	<0.055 *	<0.048 *	<0.056 *	<0.055	<0.053	<0.056
Carbon tetrachloride	mg/kg	0.0039	0.916	4.03	---	---	EPA 8260B	<0.026	<0.025	<0.026	<0.026	<0.027	<0.023	<0.027	<0.027	<0.025	<0.027
Chlorobenzene	mg/kg	---	370	761	---	---	EPA 8260B	<0.026	<0.025	<0.026	<0.026	<0.027	<0.023	<0.027	<0.027	<0.026	<0.027
Chloroethane	mg/kg	0.2266	2,120	2,120	---	---	EPA 8260B	<0.034	<0.033	<0.034	<0.034	<0.035	<0.030	<0.035	<0.035	<0.033	<0.035
Chloroform	mg/kg	0.0033	0.454	1.98	---	---	EPA 8260B	<0.025	<0.024	<0.025	<0.025	<0.026	<0.022	<0.026	<0.026	<0.024	<0.026
Chloromethane	mg/kg	0.0155	159	669	---	---	EPA 8260B	<0.022	<0.021	<0.022	<0.022 *	<0.022 *	<0.019 *	<0.022 *	<0.022 *	<0.021	<0.022
cis-1,2-Dichloroethene	mg/kg	0.0412	156	2,340	---	---	EPA 8260B	<0.028	<0.027	<0.028	<0.028	<0.028	<0.025	<0.029	<0.028	<0.027	<0.029
cis-1,3-Dichloropropene	mg/kg	0.0003	1,210	1,210	---	---	EPA 8260B	<0.028	<0.027	<0.028	<0.028	<0.029	<0.025	<0.029	<0.029	<0.027	<0.029
Dibromochloromethane	mg/kg	0.032	8.28	38.9	---	---	EPA 8260B	<0.033	<0.032	<0.033	<0.033	<0.034	<0.029	<0.034	<0.034	<0.032	<0.034
Dibromomethane	mg/kg	---	34	143	---	---	EPA 8260B	<0.018	<0.018	<0.018	<0.018	<0.019	<0.016	<0.019	<0.019	<0.018	<0.019
Dichlorodifluoromethane	mg/kg	3.0863	126	530	---	---	EPA 8260B	<0.046	<0.044	<0.046	<0.046 *	<0.047 *	<0.041 *	<0.047 *	<0.047 *	<0.045	<0.047
Ethylbenzene	mg/kg	1.57	8.02	35.4	---	---	EPA 8260B	<0.012	<0.012	<0.012	<0.012	<0.013	<0.011	<0.013	<0.013	<0.012	<0.013
Hexachlorobutadiene	mg/kg	---	1.63	7.19	---	---	EPA 8260B	<0.030	<0.029	<0.030	<0.030	<0.031	<0.027	<0.031	<0.031	<0.029	<0.031
Isopropyl ether	mg/kg	---	2,260	2,260	---	---	EPA 8260B	<0.019	<0.018	<0.019	<0.019	<0.019	<0.017	<0.019	<0.019	<0.018	<0.019
Isopropylbenzene	mg/kg	---	268	268	---	---	EPA 8260B	<0.026	<0.025	<0.026	<0.026	<0.027	<0.023	<0.027	<0.027	<0.025	<0.027
Methyl tert-butyl ether	mg/kg	0.027	63.8	282	---	---	EPA 8260B	<0.027	<0.026	<0.027	<0.027	<0.027	<0.024	<0.028	<0.027	<0.026	<0.028
Methylene chloride	mg/kg	0.0026	61.8	1,150	---	---	EPA 8260B	<0.11	<0.11	<0.11	<0.11	<0.11	<0.098	<0.11	<0.11	<0.11	<0.11
Naphthalene	mg/kg	0.6582	5.52	24.1	---	---	EPA 8260B	<0.023	<0.022	<0.023	<0.023	<0.023	<0.020	<0.023	<0.023	<0.022	<0.023

Table 2
Summary of Soil Quality Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Analyte	Sample ID	NR 720 RCLs for Groundwater Protection (1)	NR 720 RCLs - Non- Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value (1)	NR 661.0024 Toxicity Characteristic	Method	B-1	B-1	B-1	B-2	B-2	B-3	B-3	B-3	B-6	B-6
	Depth (feet)							1-2.5'	3.5-5'	6-7.5'	1-2.5'	5.5-7'	1-2.5'	8.5-10'	15.5-17'	1-2.5'	6-7.5'
	Date							3/22/2022	3/22/2022	3/22/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/22/2022	3/22/2022
	UNITS							500-214086-7	500-214086-8	500-214086-9	500-214387-13	500-214387-14	500-214387-11	500-214387-12	500-214387-15	500-214086-5	500-214086-6
n-Butylbenzene	mg/kg	---	108	108	---	---	EPA 8260B	<0.026	<0.025	<0.026	<0.026	<0.027	<0.023	<0.027	<0.027	<0.026	<0.027
n-Propylbenzene	mg/kg	---	264	264	---	---	EPA 8260B	<0.028	<0.027	<0.028	<0.028	<0.029	<0.025	<0.029	<0.029	<0.027	<0.029
p-Isopropyltoluene	mg/kg	---	162	162	---	---	EPA 8260B	<0.025	<0.024	<0.025	<0.024	<0.025	<0.022	<0.025	<0.025	<0.024	<0.025
sec-Butylbenzene	mg/kg	---	145	145	---	---	EPA 8260B	<0.027	<0.026	<0.027	<0.027	<0.028	<0.024	<0.028	<0.028	<0.026	<0.028
Styrene	mg/kg	0.22	867	867	---	---	EPA 8260B	<0.026	<0.025	<0.026	<0.026	<0.027	<0.023	<0.027	<0.027	<0.026	<0.027
tert-Butylbenzene	mg/kg	---	183	183	---	---	EPA 8260B	<0.027	<0.026	<0.027	<0.027	<0.028	<0.024	<0.028	<0.028	<0.026	<0.028
Tetrachloroethene	mg/kg	0.0045	33	145	---	---	EPA 8260B	<0.025	<0.024	<0.025	<0.025	<0.026	<0.022	<0.026	<0.026	<0.024	<0.026
Toluene	mg/kg	1.1072	818	818	---	---	EPA 8260B	<0.010	<0.0096	<0.010	<0.0099	<0.010	<0.0089	<0.010	<0.010	<0.0097	<0.010
trans-1,2-Dichloroethene	mg/kg	0.0626	1,560	1,850	---	---	EPA 8260B	<0.024	<0.023	<0.024	<0.024	<0.024	<0.021	<0.025	<0.024	<0.023	<0.025
trans-1,3-Dichloropropene	mg/kg	---	1,510	1,510	---	---	EPA 8260B	<0.025	<0.024	<0.025	<0.024	<0.025	<0.022	<0.025	<0.025	<0.024	<0.025
Trichloroethene	mg/kg	0.0036	1.3	8.41	---	---	EPA 8260B	<0.011	<0.011	<0.011	<0.011	<0.011	<0.0099	<0.012	<0.011	<0.011	<0.012
Trichlorofluoromethane	mg/kg	---	1,230	1,230	---	---	EPA 8260B	<0.029	<0.028	<0.029	<0.029	<0.030	<0.026	<0.030	<0.030	<0.028	<0.030
Vinyl chloride	mg/kg	0.0001	0.067	2.08	---	---	EPA 8260B	<0.018	<0.017	<0.018	<0.018 *	<0.018 *	<0.016 *	<0.018 *	<0.018	<0.017	<0.018
Xylenes, Total	mg/kg	3.96	260	260	---	---	EPA 8260B	<0.015	<0.014	<0.015	<0.015	<0.015	<0.013	<0.015	<0.015	<0.015	<0.015
TCPLP Metals																	
Arsenic	mg/L	---	---	---	---	5	EPA 6010C	---	---	---	---	---	---	---	<0.010	---	---
Barium	mg/L	---	---	---	---	100	EPA 6010C	---	---	---	---	---	---	---	0.17 J	---	---
Cadmium	mg/L	---	---	---	---	1	EPA 6010C	---	---	---	---	---	---	---	0.0046 J	---	---
Chromium	mg/L	---	---	---	---	5	EPA 6010C	---	---	---	---	---	---	---	<0.010	---	---
Copper	mg/L	---	---	---	---	---	EPA 6010C	---	---	---	---	---	---	---	0.014 J	---	---
Lead	mg/L	---	---	---	---	5	EPA 6010C	---	---	---	---	---	---	---	<0.0075	---	---
Nickel	mg/L	---	---	---	---	---	EPA 6010C	---	---	---	---	---	---	---	0.024 J	---	---
Selenium	mg/L	---	---	---	---	1	EPA 6010C	---	---	---	---	---	---	---	<0.020	---	---
Silver	mg/L	---	---	---	---	5	EPA 6010C	---	---	---	---	---	---	---	<0.010	---	---
Zinc	mg/L	---	---	---	---	---	EPA 6010C	---	---	---	---	---	---	---	0.17	---	---
Mercury	mg/L	---	---	---	---	0.2	EPA 7470A	---	---	---	---	---	---	---	<0.00020	---	---
Notes:																	
(1) From WDNR RCLs Worksheet dated December 2018																	
Bold = Exceeds RCL																	
--- = Not analyzed / No established standard																	
B = Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank. *3 = ISTD Response or Retention Time Outside Acceptable Limits.																	
J = Estimated: The analyte was positively identified; the quantitation is an estimation. F1 = MS and/or MSD Recovery Exceed Control Limits. F2 = MS/MSD Rpd Exceeds Control Limits.																	

Table 2
Summary of Soil Quality Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Analyte	Sample ID	NR 720 RCLs for Groundwater Protection (1)	NR 720 RCLs - Non- Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value (1)	NR 661.0024 Toxicity Characteristic	Method	B-6	B-7	B-7	B-8	B-8	B-9	B-9	B-9	B-10	B-10
	Depth (feet)							10.5-15'	1-2.5'	8.5-10'	1-2.5'	8.5-10'	1-2.5'	8.5-10'	13.5-15'	1-2.5'	8.5-10'
	Date							3/22/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022
UNITS							500-214086-10	500-214387-9	500-214387-10	500-214387-7	500-214387-8	500-214387-4	500-214387-5	500-214387-6	500-214387-1	500-214387-2	
Physical Characteristics																	
Moisture, Percent	%	---	---	---	---	---	Moisture	16.6	15.4	14.8	15.4	18.5	14.2	15.8	16.1	12.9	16.5
Solids, Percent	%	---	---	---	---	---	Moisture	83.4	84.6	85.2	84.6	81.5	85.8	84.2	83.9	87.1	83.5
Metals																	
Arsenic	mg/kg	0.584	0.677	3	8	---	EPA 6010B	5.4	4.5	4.5	4.8	4	4.2	3.3	3.7	3.7	3.2
Barium	mg/kg	164.8	15,300	100,000	364	---	EPA 6010B	63	54	59	66	56	55	49	61	54	56
Cadmium	mg/kg	0.752	71.1	985	1	---	EPA 6010B	0.056 J B	0.13 J B	0.18 J B	0.40 B	0.10 J B	0.24 B	0.14 J B	0.081 J B	0.18 J B	0.091 J B
Chromium	mg/kg	360,000*	---	---	44	---	EPA 6010B	23 B	21 B	18 B	23 B	25 B	20 B	22 B	23 B	19 B	21 B
Lead	mg/kg	27	400	800	51.6	---	EPA 6010B	21	10	24	36	12	25	10	11	13	8.8
Selenium	mg/kg	0.52	391	5840	---	---	EPA 6010B	<0.70	<0.64	<0.63	<0.66	<0.69	<0.66	<0.65	<0.59	<0.62	<0.64
Silver	mg/kg	0.8491	391	5,840	---	---	EPA 6010B	0.26 J	0.24 J	0.26 J	0.41 J	0.29 J	0.31 J	0.27 J	0.29 J	0.30 J	0.24 J
Mercury	mg/kg	0.208	3.13	3.13	---	---	EPA 7471A	---	0.017 J	0.065	0.045	0.029	0.03	0.017 J	0.016 J	0.03	0.017 J
Polychlorinated Biphenyls (PCBs)																	
PCB-1016	mg/kg	0.009384	4.11	28	---	---	EPA 8082A	<0.0076	<0.0076	---	<0.0075	<0.0079	<0.0074	<0.0074	---	<0.0074	<0.0077
PCB-1221	mg/kg		0.213	0.883	---	---	EPA 8082A	<0.0076	<0.0076	---	<0.0075	<0.0079	<0.0074	<0.0074	---	<0.0074	<0.0077
PCB-1232	mg/kg		0.19	0.792	---	---	EPA 8082A	<0.0053	<0.0052	---	<0.0052	<0.0054	<0.0051	<0.0051	---	<0.0051	<0.0053
PCB-1242	mg/kg		0.235	0.972	---	---	EPA 8082A	<0.0075	<0.0075	---	<0.0075	<0.0078	<0.0074	<0.0074	---	<0.0073	<0.0077
PCB-1248	mg/kg		0.236	0.975	---	---	EPA 8082A	<0.0092	<0.0092	---	<0.0091	<0.0095	<0.0090	<0.0090	---	<0.0090	<0.0093
PCB-1254	mg/kg		0.239	0.988	---	---	EPA 8082A	<0.0066	<0.0065	---	<0.0065	<0.0068	<0.0064	<0.0064	---	<0.0064	<0.0067
PCB-1260	mg/kg		0.243	1	---	---	EPA 8082A	<0.0073	<0.0073	---	<0.0072	<0.0076	<0.0071	<0.0071	---	<0.0071	<0.0074
PCB-1268	mg/kg		---	---	---	---	EPA 8082A	---	---	---	---	---	---	---	---	---	---
Total PCBs	mg/kg	0.009384	---	---	---	---	EPA 8082A	<0.0053	<0.0052	---	<0.0052	<0.0054	<0.0051	<0.0051	---	<0.0051	<0.0053
Polynuclear Aromatic Hydrocarbons (PAHs)																	
1-Methylnaphthalene	mg/kg	---	17.6	72.7	---	---	EPA 8270D	---	<0.0094	0.061 J	0.023 J	<0.0094	<0.0093	<0.0095	<0.0094	0.019 J	<0.0094
2-Methylnaphthalene	mg/kg	---	239	3010	---	---	EPA 8270D	---	<0.0071	0.060 J	0.022 J	0.013 J	0.0082 J	0.011 J	<0.0071	0.023 J	<0.0071
Acenaphthene	mg/kg	---	3590	45200	---	---	EPA 8270D	---	0.015 J	0.072	0.17	0.020 J	0.025 J	0.037 J	0.12	0.052	<0.0070
Acenaphthylene	mg/kg	---	---	---	---	---	EPA 8270D	---	0.0098 J	0.14	0.027 J	0.054	0.015 J	<0.0051	0.0094 J	0.023 J	<0.0051
Anthracene	mg/kg	196.949	17900	100000	---	---	EPA 8270D	---	0.067	0.29	0.83	0.057	0.078	0.10	0.48	0.21	0.010 J
Benzo[a]anthracene	mg/kg	---	1.14	20.8	---	---	EPA 8270D	---	0.13	1.3	2.0	0.16	0.38	0.12	0.85	0.60	<0.0052
Benzo[a]pyrene	mg/kg	0.47	0.115	2.11	---	---	EPA 8270D	---	0.11	1.5	1.9	0.21	0.42	0.10	0.90	0.60	<0.0075
Benzo[b]fluoranthene	mg/kg	0.4781	1.15	21.1	---	---	EPA 8270D	---	0.14	1.5	2.1	0.20	0.53	0.12	0.94	0.73	0.014 J
Benzo[g,h,i]perylene	mg/kg	---	---	---	---	---	EPA 8270D	---	0.045	0.48	0.62	0.091	0.21	0.051	0.47	0.29	<0.012
Benzo[k]fluoranthene	mg/kg	---	11.5	211	---	---	EPA 8270D	---	0.053	0.65	0.93	0.089	0.20	0.051	0.43	0.26	<0.011
Chrysene	mg/kg	0.1442	115	2110	---	---	EPA 8270D	---	0.15	1.3	2.0	0.18	0.44	0.14	0.84	0.64	<0.011
Dibenz(a,h)anthracene	mg/kg	---	0.115	2.11	---	---	EPA 8270D	---	0.015 J	0.16	0.29	0.024 J	0.062	0.013 J	0.11	0.034 J	<0.0075
Fluoranthene	mg/kg	88.8778	2390	30100	---	---	EPA 8270D	---	0.36	3.1	5.2	0.28	0.99	0.40	2.4	1.5	0.090
Fluorene	mg/kg	14.8299	2390	30100	---	---	EPA 8270D	---	0.024 J	0.12	0.20	0.025 J	0.025 J	0.056	0.15	0.060	<0.0054
Indeno[1,2,3-cd]pyrene	mg/kg	---	1.15	21.1	---	---	EPA 8270D	---	0.044	0.55	0.71	0.080	0.21	0.044	0.42	0.27	<0.010
Naphthalene	mg/kg	0.6582	5.52	24.1	---	---	EPA 8270D	---	<0.0059	0.084	0.023 J	0.032 J	0.012 J	0.016 J	0.0089 J	0.021 J	<0.0060
Phenanthrene	mg/kg	---	---	---	---	---	EPA 8270D	---	0.24	1.4	2.4	0.12	0.43	0.41	1.4	0.69	0.018 J
Pyrene	mg/kg	54.5455	1790	22600	---	---	EPA 8270D	---	0.26	2.3	3.6	0.29	0.73	0.27	1.9	1.1	0.070

Table 2
Summary of Soil Quality Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Analyte	Sample ID	NR 720 RCLs for Groundwater Protection (1)	NR 720 RCLs - Non- Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value (1)	NR 661.0024 Toxicity Characteristic	Method	B-6	B-7	B-7	B-8	B-8	B-9	B-9	B-9	B-10	B-10
	Depth (feet)							10.5-15'	1-2.5'	8.5-10'	1-2.5'	8.5-10'	1-2.5'	8.5-10'	13.5-15'	1-2.5'	8.5-10'
	Date							3/22/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022
	UNITS							500-214086-10	500-214387-9	500-214387-10	500-214387-7	500-214387-8	500-214387-4	500-214387-5	500-214387-6	500-214387-1	500-214387-2
Volatile Organic Compounds (VOCs)																	
1,1,1,2-Tetrachloroethane	mg/kg	0.0534	2.78	12.3	---	---	EPA 8260B	<0.030	<0.032	<0.031	<0.031	<0.033	<0.031	<0.032	<0.032	<0.030	<0.032
1,1,1-Trichloroethane	mg/kg	0.1402	640	640	---	---	EPA 8260B	<0.025	<0.026	<0.026	<0.026	<0.027	<0.026	<0.026	<0.026	<0.025	<0.026
1,1,2,2-Tetrachloroethane	mg/kg	0.0002	0.81	3.6	---	---	EPA 8260B	<0.026	<0.027	<0.027	<0.027	<0.029	<0.027	<0.027	<0.028	<0.026	<0.028
1,1,2-Trichloroethane	mg/kg	0.0032	1.59	7.01	---	---	EPA 8260B	<0.023	<0.024	<0.024	<0.024	<0.025	<0.024	<0.024	<0.024	<0.023	<0.024
1,1-Dichloroethane	mg/kg	0.4834	5.06	22.2	---	---	EPA 8260B	<0.027	<0.028	<0.028	<0.028	<0.029	<0.028	<0.028	<0.028	<0.027	<0.028
1,1-Dichloroethene	mg/kg	0.005	320	1,190	---	---	EPA 8260B	<0.025	<0.027	<0.027	<0.026	<0.028	<0.026	<0.027	<0.027	<0.025	<0.027
1,1-Dichloropropene	mg/kg	---	---	---	---	---	EPA 8260B	<0.019	<0.020	<0.020	<0.020	<0.021	<0.020	<0.020	<0.021	<0.019	<0.021
1,2,3-Trichlorobenzene	mg/kg	---	62.6	934	---	---	EPA 8260B	<0.030	<0.032	<0.031	<0.031	<0.033	<0.031	<0.031	<0.032	<0.030	<0.032
1,2,3-Trichloropropane	mg/kg	0.0519	0.005	0.109	---	---	EPA 8260B	<0.027	<0.028	<0.028	<0.028	<0.030	<0.028	<0.028	<0.029	<0.027	<0.029
1,2,4-Trichlorobenzene	mg/kg	0.408	24	113	---	---	EPA 8260B	<0.022	<0.024	<0.023	<0.023	<0.025	<0.023	<0.023	<0.024	<0.022	<0.024
1,2,4-Trimethylbenzene	mg/kg	1.3787**	219	219	---	---	EPA 8260B	<0.023	<0.025	<0.024	<0.024	<0.026	<0.024	<0.024	<0.025	<0.023	<0.025
1,2-Dibromo-3-chloropropane	mg/kg	0.0002	0.008	0.092	---	---	EPA 8260B	<0.13	<0.14	<0.14	<0.13	<0.14	<0.13	<0.14	<0.14	<0.13	<0.14
1,2-Dibromoethane	mg/kg	0.0000282	0.05	0.221	---	---	EPA 8260B	<0.025	<0.027	<0.026	<0.026	<0.028	<0.026	<0.026	<0.027	<0.025	<0.027
1,2-Dichlorobenzene	mg/kg	1.168	376	376	---	---	EPA 8260B	<0.022	<0.023	<0.023	<0.022	<0.024	<0.023	<0.023	<0.023	<0.022	<0.023
1,2-Dichloroethane	mg/kg	0.0028	0.652	2.87	---	---	EPA 8260B	<0.025	<0.027	<0.027	<0.026	<0.028	<0.026	<0.027	<0.027	<0.025	<0.027
1,2-Dichloropropane	mg/kg	0.0033	3.4	15	---	---	EPA 8260B	<0.028	<0.029	<0.029	<0.029	<0.031	<0.029	<0.029	<0.030	<0.028	<0.030
1,3,5-Trimethylbenzene	mg/kg	1.3787**	182	182	---	---	EPA 8260B	<0.025	<0.026	<0.026	<0.026	<0.027	<0.026	<0.026	<0.026	<0.025	<0.026
1,3-Dichlorobenzene	mg/kg	1.1528	297	297	---	---	EPA 8260B	<0.026	<0.028	<0.027	<0.027	<0.029	<0.027	<0.027	<0.028	<0.026	<0.028
1,3-Dichloropropane	mg/kg	0.0003	1,490	1,490	---	---	EPA 8260B	<0.024	<0.025	<0.025	<0.024	<0.026	<0.024	<0.025	<0.025	<0.023	<0.025
1,4-Dichlorobenzene	mg/kg	0.144	3.74	16.4	---	---	EPA 8260B	<0.024	<0.025	<0.025	<0.024	<0.026	<0.025	<0.025	<0.025	<0.024	<0.025
2,2-Dichloropropane	mg/kg	---	191	191	---	---	EPA 8260B	<0.029	<0.031	<0.030	<0.030	<0.032	<0.030	<0.030	<0.031	<0.029	<0.031
2-Chlorotoluene	mg/kg	---	907	907	---	---	EPA 8260B	<0.020	<0.022	<0.021	<0.021	<0.023	<0.021	<0.021	<0.022	<0.020	<0.022
4-Chlorotoluene	mg/kg	---	253	253	---	---	EPA 8260B	<0.023	<0.024	<0.024	<0.024	<0.025	<0.024	<0.024	<0.024	<0.023	<0.024
Benzene	mg/kg	0.0051	1.6	7.07	---	---	EPA 8260B	<0.0095	<0.010	<0.0099	<0.0098	<0.010	<0.0098	<0.010	<0.010	<0.0095	<0.010
Bromobenzene	mg/kg	---	342	679	---	---	EPA 8260B	<0.023	<0.024	<0.024	<0.024	<0.026	<0.024	<0.024	<0.025	<0.023	<0.025
Bromochloromethane	mg/kg	---	216	906	---	---	EPA 8260B	<0.028	<0.029 *	<0.029 *	<0.029 *	<0.031 *	<0.029 *	<0.029 *	<0.030 *	<0.028	<0.030 *
Bromodichloromethane	mg/kg	0.0003	0.418	1.83	---	---	EPA 8260B	<0.024	<0.026	<0.025	<0.025	<0.027	<0.025	<0.025	<0.026	<0.024	<0.026
Bromoform	mg/kg	0.0023	25.4	113	---	---	EPA 8260B	<0.031	<0.033	<0.033	<0.033	<0.035	<0.033	<0.033	<0.034	<0.031	<0.034
Bromomethane	mg/kg	0.0051	9.6	43	---	---	EPA 8260B	<0.052	<0.055 *	<0.054 *	<0.054 *	<0.057 *	<0.054 *	<0.054 *	<0.055 *	<0.052	<0.055 *
Carbon tetrachloride	mg/kg	0.0039	0.916	4.03	---	---	EPA 8260B	<0.025	<0.026	<0.026	<0.026	<0.028	<0.026	<0.026	<0.027	<0.025	<0.027
Chlorobenzene	mg/kg	---	370	761	---	---	EPA 8260B	<0.025	<0.027	<0.026	<0.026	<0.028	<0.026	<0.026	<0.027	<0.025	<0.027
Chloroethane	mg/kg	0.2266	2,120	2,120	---	---	EPA 8260B	<0.033	<0.035	<0.034	<0.034	<0.036	<0.034	<0.034	<0.035	<0.033	<0.035
Chloroform	mg/kg	0.0033	0.454	1.98	---	---	EPA 8260B	<0.024	<0.025	<0.025	<0.025	<0.027	<0.025	<0.025	<0.026	<0.024	<0.026
Chloromethane	mg/kg	0.0155	159	669	---	---	EPA 8260B	<0.021	<0.022 *-	<0.022 *-	<0.022 *-	<0.023 *-	<0.022 *-	<0.022 *-	<0.022 *-	<0.021	<0.022 *-
cis-1,2-Dichloroethene	mg/kg	0.0412	156	2,340	---	---	EPA 8260B	<0.027	<0.028	<0.028	<0.027	<0.029	<0.028	<0.028	<0.028	<0.026	<0.028
cis-1,3-Dichloropropene	mg/kg	0.0003	1,210	1,210	---	---	EPA 8260B	<0.027	<0.029	<0.028	<0.028	<0.030	<0.028	<0.028	<0.029	<0.027	<0.029
Dibromochloromethane	mg/kg	0.032	8.28	38.9	---	---	EPA 8260B	<0.032	<0.034	<0.033	<0.033	<0.035	<0.033	<0.033	<0.034	<0.032	<0.034
Dibromomethane	mg/kg	---	34	143	---	---	EPA 8260B	<0.018	<0.019	<0.018	<0.018	<0.019	<0.018	<0.018	<0.018	<0.019	<0.018
Dichlorodifluoromethane	mg/kg	3.0863	126	530	---	---	EPA 8260B	<0.044	<0.046 *-	<0.046 *-	<0.045 *-	<0.048 *-	<0.045 *-	<0.046 *-	<0.047 *-	<0.044	<0.047 *-
Ethylbenzene	mg/kg	1.57	8.02	35.4	---	---	EPA 8260B	<0.012	<0.013	<0.012	<0.012	<0.013	<0.012	<0.013	<0.013	<0.012	<0.013
Hexachlorobutadiene	mg/kg	---	1.63	7.19	---	---	EPA 8260B	<0.029	<0.031	<0.030	<0.030	<0.032	<0.030	<0.030	<0.031	<0.029	<0.031
Isopropyl ether	mg/kg	---	2,260	2,260	---	---	EPA 8260B	<0.018	<0.019	<0.019	<0.019	<0.020	<0.019	<0.019	<0.019	<0.018	<0.019
Isopropylbenzene	mg/kg	---	268	268	---	---	EPA 8260B	<0.025	<0.026	<0.026	<0.026	<0.028	<0.026	<0.026	<0.027	<0.025	<0.027
Methyl tert-butyl ether	mg/kg	0.027	63.8	282	---	---	EPA 8260B	<0.026	<0.027	<0.027	<0.026	<0.028	<0.027	<0.027	<0.027	<0.026	<0.027
Methylene chloride	mg/kg	0.0026	61.8	1,150	---	---	EPA 8260B	<0.11	<0.11	<0.11	<0.11	<0.12	<0.11	<0.11	<0.11	<0.11	<0.11
Naphthalene	mg/kg	0.6582	5.52	24.1	---	---	EPA 8260B	<0.022	<0.023	<0.023	<0.022	<0.024	<0.023	<0.023	<0.023	<0.022	<0.023

Table 2
Summary of Soil Quality Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Analyte	Sample ID	NR 720 RCLs for Groundwater Protection (1)	NR 720 RCLs - Non- Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value (1)	NR 661.0024 Toxicity Characteristic	Method	B-6	B-7	B-7	B-8	B-8	B-9	B-9	B-9	B-10	B-10
	Depth (feet)							10.5-15'	1-2.5'	8.5-10'	1-2.5'	8.5-10'	1-2.5'	8.5-10'	13.5-15'	1-2.5'	8.5-10'
	Date							3/22/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022	3/29/2022
UNITS							500-214086-10	500-214387-9	500-214387-10	500-214387-7	500-214387-8	500-214387-4	500-214387-5	500-214387-6	500-214387-1	500-214387-2	
n-Butylbenzene	mg/kg	---	108	108	---	---	EPA 8260B	<0.025	<0.027	<0.026	<0.026	<0.028	<0.026	<0.027	<0.027	<0.025	<0.027
n-Propylbenzene	mg/kg	---	264	264	---	---	EPA 8260B	<0.027	<0.028	<0.028	<0.028	<0.030	<0.028	<0.028	<0.029	<0.027	<0.029
p-Isopropyltoluene	mg/kg	---	162	162	---	---	EPA 8260B	<0.024	<0.025	<0.025	<0.024	<0.026	<0.024	<0.025	<0.025	<0.023	<0.025
sec-Butylbenzene	mg/kg	---	145	145	---	---	EPA 8260B	<0.026	<0.027	<0.027	<0.027	<0.029	<0.027	<0.027	<0.028	<0.026	<0.028
Styrene	mg/kg	0.22	867	867	---	---	EPA 8260B	<0.025	<0.027	<0.026	<0.026	<0.028	<0.026	<0.026	<0.027	<0.025	<0.027
tert-Butylbenzene	mg/kg	---	183	183	---	---	EPA 8260B	<0.026	<0.027	<0.027	<0.027	<0.029	<0.027	<0.027	<0.028	<0.026	<0.028
Tetrachloroethene	mg/kg	0.0045	33	145	---	---	EPA 8260B	<0.024	<0.025	<0.025	<0.025	<0.027	<0.025	<0.025	<0.026	<0.024	<0.026
Toluene	mg/kg	1.1072	818	818	---	---	EPA 8260B	<0.0096	<0.010	<0.010	<0.0099	<0.011	<0.0099	<0.010	<0.010	<0.0095	<0.010
trans-1,2-Dichloroethene	mg/kg	0.0626	1,560	1,850	---	---	EPA 8260B	<0.023	<0.024	<0.024	<0.024	<0.025	<0.024	<0.024	<0.024	<0.023	<0.024
trans-1,3-Dichloropropene	mg/kg	---	1,510	1,510	---	---	EPA 8260B	<0.024	<0.025	<0.025	<0.024	<0.026	<0.024	<0.025	<0.025	<0.023	<0.025
Trichloroethene	mg/kg	0.0036	1.3	8.41	---	---	EPA 8260B	<0.011	<0.011	<0.011	<0.011	<0.012	<0.011	<0.011	<0.011	<0.011	<0.011
Trichlorofluoromethane	mg/kg	---	1,230	1,230	---	---	EPA 8260B	<0.028	<0.029	<0.029	<0.029	<0.031	<0.029	<0.029	<0.030	<0.028	<0.030
Vinyl chloride	mg/kg	0.0001	0.067	2.08	---	---	EPA 8260B	<0.017	<0.018 *	<0.018 *	<0.018 *	<0.019 *	<0.018 *	<0.018 *	<0.018 *	<0.017	<0.018 *
Xylenes, Total	mg/kg	3.96	260	260	---	---	EPA 8260B	<0.014	<0.015	<0.015	<0.015	<0.016	<0.015	<0.015	<0.015	<0.014	<0.015
TCLP Metals																	
Arsenic	mg/L	---	---	---	---	5	EPA 6010C	<0.010	---	---	---	---	---	---	---	---	---
Barium	mg/L	---	---	---	---	100	EPA 6010C	0.32 J	---	---	---	---	---	---	---	---	---
Cadmium	mg/L	---	---	---	---	1	EPA 6010C	<0.0020	---	---	---	---	---	---	---	---	---
Chromium	mg/L	---	---	---	---	5	EPA 6010C	<0.010	---	---	---	---	---	---	---	---	---
Copper	mg/L	---	---	---	---	---	EPA 6010C	<0.010	---	---	---	---	---	---	---	---	---
Lead	mg/L	---	---	---	---	5	EPA 6010C	<0.0075	---	---	---	---	---	---	---	---	---
Nickel	mg/L	---	---	---	---	---	EPA 6010C	<0.010	---	---	---	---	---	---	---	---	---
Selenium	mg/L	---	---	---	---	1	EPA 6010C	<0.020	---	---	---	---	---	---	---	---	---
Silver	mg/L	---	---	---	---	5	EPA 6010C	<0.010	---	---	---	---	---	---	---	---	---
Zinc	mg/L	---	---	---	---	---	EPA 6010C	<0.020	---	---	---	---	---	---	---	---	---
Mercury	mg/L	---	---	---	---	0.2	EPA 7470A	<0.00020	---	---	---	---	---	---	---	---	---
Notes:																	
(1) From WDNR RCLs Worksheet dated December 2018																	
Bold = Exceeds RCL																	
--- = Not analyzed / No established standard																	
B = Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank. *3 = ISTD Response or Retention Time Outside Acceptable Limits.																	
J = Estimated: The analyte was positively identified; the quantitation is an estimation. F1 = MS and/or MSD Recovery Exceed Control Limits. F2 = MS/MSD Rpd Exceeds Control Limits.																	

Table 2
Summary of Soil Quality Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Analyte	Sample ID	NR 720 RCLs for Groundwater Protection (1)	NR 720 RCLs - Non- Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value (1)	NR 661.0024 Toxicity Characteristic	Method	B-10	B-11	B-11	B-11	B-11	Trip Blank
	Depth (feet)							18.5-20'	1-2.5'	6-7.5'	11-12.5'	16-17.5'	---
	Date							3/29/2022	3/22/2022	3/22/2022	3/22/2022	3/22/2022	3/29/2022
	UNITS							500-214387-3	500-214086-1	500-214086-2	500-214086-3	500-214086-4	500-214387-16
Physical Characteristics													
Moisture, Percent	%	---	---	---	---	---	Moisture	14.6	17.7	15.8	7.4	12.9	---
Solids, Percent	%	---	---	---	---	---	Moisture	85.4	82.3	84.2	92.6	87.1	---
Metals													
Arsenic	mg/kg	0.584	0.677	3	8	---	EPA 6010B	6.7	6.6	5.7	3.3	3.3	---
Barium	mg/kg	164.8	15,300	100,000	364	---	EPA 6010B	48	71	53	13	31	---
Cadmium	mg/kg	0.752	71.1	985	1	---	EPA 6010B	0.075 J B	0.22 J B	0.057 J B	0.12 J B	0.099 J B	---
Chromium	mg/kg	360,000*	---	---	44	---	EPA 6010B	20 B	22	22 B	7	13	---
Lead	mg/kg	27	400	800	51.6	---	EPA 6010B	11	50	24	5.9	8.5	---
Selenium	mg/kg	0.52	391	5840	---	---	EPA 6010B	<0.60	<0.71	<0.62	<0.59	<0.67	---
Silver	mg/kg	0.8491	391	5,840	---	---	EPA 6010B	0.24 J	0.36 J	0.30 J	<0.13	<0.15	---
Mercury	mg/kg	0.208	3.13	3.13	---	---	EPA 7471A	0.017 J	0.065	0.045	<0.0056	0.0093 J	---
Polychlorinated Biphenyls (PCBs)													
PCB-1016	mg/kg	0.009384	4.11	28	---	---	EPA 8082A	---	<0.0078	<0.0077	---	---	---
PCB-1221	mg/kg		0.213	0.883	---	---	EPA 8082A	---	<0.0078	<0.0077	---	---	---
PCB-1232	mg/kg		0.19	0.792	---	---	EPA 8082A	---	<0.0054	<0.0053	---	---	---
PCB-1242	mg/kg		0.235	0.972	---	---	EPA 8082A	---	<0.0077	<0.0076	---	---	---
PCB-1248	mg/kg		0.236	0.975	---	---	EPA 8082A	---	<0.0094	<0.0093	---	---	---
PCB-1254	mg/kg		0.239	0.988	---	---	EPA 8082A	---	<0.0067	<0.0066	---	---	---
PCB-1260	mg/kg		0.243	1	---	---	EPA 8082A	---	<0.0075	<0.0074	---	---	---
PCB-1268	mg/kg		---	---	---	---	EPA 8082A	---	---	---	---	---	---
Total PCBs	mg/kg	0.009384	---	---	---	---	EPA 8082A	---	<0.0054	<0.0053	---	---	---
Polynuclear Aromatic Hydrocarbons (PAHs)													
1-Methylnaphthalene	mg/kg	---	17.6	72.7	---	---	EPA 8270D	<0.0093	0.012 J	0.018 J	<0.0086	<0.0089	---
2-Methylnaphthalene	mg/kg	---	239	3010	---	---	EPA 8270D	<0.0070	0.013 J	0.020 J	<0.0065	<0.0067	---
Acenaphthene	mg/kg	---	3590	45200	---	---	EPA 8270D	<0.0068	0.034 J	0.046	<0.0063	<0.0065	---
Acenaphthylene	mg/kg	---	---	---	---	---	EPA 8270D	<0.0050	0.032 J	0.013 J	<0.0046	<0.0048	---
Anthracene	mg/kg	196.949	17900	100000	---	---	EPA 8270D	<0.0064	0.23	0.12	<0.0059	<0.0061	---
Benzo[a]anthracene	mg/kg	---	1.14	20.8	---	---	EPA 8270D	<0.0051	1.1	0.24	<0.0047	0.0071 J	---
Benzo[a]pyrene	mg/kg	0.47	0.115	2.11	---	---	EPA 8270D	<0.0074	1.2 *3	0.25	<0.0068	<0.0070	---
Benzo[b]fluoranthene	mg/kg	0.4781	1.15	21.1	---	---	EPA 8270D	<0.0082	1.8 *3	0.30	<0.0076	<0.0079	---
Benzo[g,h,i]perylene	mg/kg	---	---	---	---	---	EPA 8270D	<0.012	0.35 *3	0.069	<0.011	<0.012	---
Benzo[k]fluoranthene	mg/kg	---	11.5	211	---	---	EPA 8270D	<0.011	0.67 *3	0.17	<0.010	<0.011	---
Chrysene	mg/kg	0.1442	115	2110	---	---	EPA 8270D	<0.010	1.1	0.23	<0.0096	<0.0099	---
Dibenz(a,h)anthracene	mg/kg	---	0.115	2.11	---	---	EPA 8270D	<0.0074	0.16 *3	0.034 J	<0.0068	<0.0070	---
Fluoranthene	mg/kg	88.8778	2390	30100	---	---	EPA 8270D	<0.0071	2.0	0.55	0.031 J	0.032 J	---
Fluorene	mg/kg	14.8299	2390	30100	---	---	EPA 8270D	<0.0054	0.043	0.065	<0.0049	<0.0051	---
Indeno[1,2,3-cd]pyrene	mg/kg	---	1.15	21.1	---	---	EPA 8270D	<0.0099	0.41 *3	0.078	<0.0091	<0.0094	---
Naphthalene	mg/kg	0.6582	5.52	24.1	---	---	EPA 8270D	<0.0059	0.018 J	0.026 J	<0.0054	<0.0056	---
Phenanthrene	mg/kg	---	---	---	---	---	EPA 8270D	<0.0053	0.65	0.42	<0.0049	0.0063 J	---
Pyrene	mg/kg	54.5455	1790	22600	---	---	EPA 8270D	<0.0076	2.2	0.51	<0.0070	0.0078 J	---

Table 2
Summary of Soil Quality Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Analyte	Sample ID	NR 720 RCLs for Groundwater Protection (1)	NR 720 RCLs - Non- Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value (1)	NR 661.0024 Toxicity Characteristic	Method	B-10	B-11	B-11	B-11	B-11	Trip Blank
	Depth (feet)							18.5-20'	1-2.5'	6-7.5'	11-12.5'	16-17.5'	---
	Date							3/29/2022	3/22/2022	3/22/2022	3/22/2022	3/22/2022	3/29/2022
	UNITS							500-214387-3	500-214086-1	500-214086-2	500-214086-3	500-214086-4	500-214387-16
Volatile Organic Compounds (VOCs)													
1,1,1,2-Tetrachloroethane	mg/kg	0.0534	2.78	12.3	---	---	EPA 8260B	<0.031	<0.033	<0.031	<0.027	<0.030	<0.023
1,1,1-Trichloroethane	mg/kg	0.1402	640	640	---	---	EPA 8260B	<0.026	<0.027	<0.026	<0.022	<0.025	<0.019
1,1,2,2-Tetrachloroethane	mg/kg	0.0002	0.81	3.6	---	---	EPA 8260B	<0.027	<0.029	<0.027	<0.023	<0.026	<0.020
1,1,2-Trichloroethane	mg/kg	0.0032	1.59	7.01	---	---	EPA 8260B	<0.024	<0.025	<0.024	<0.020	<0.023	<0.018
1,1-Dichloroethane	mg/kg	0.4834	5.06	22.2	---	---	EPA 8260B	<0.028	<0.029	<0.028	<0.024	<0.027	<0.021
1,1-Dichloroethene	mg/kg	0.005	320	1,190	---	---	EPA 8260B	<0.027	<0.028	<0.026	<0.023	<0.025	<0.020
1,1-Dichloropropene	mg/kg	---	---	---	---	---	EPA 8260B	<0.020	<0.021	<0.020	<0.017	<0.019	<0.015
1,2,3-Trichlorobenzene	mg/kg	---	62.6	934	---	---	EPA 8260B	<0.031	<0.033	<0.031	<0.027	<0.030	<0.023
1,2,3-Trichloropropane	mg/kg	0.0519	0.005	0.109	---	---	EPA 8260B	<0.028	<0.030	<0.028	<0.024	<0.027	<0.021
1,2,4-Trichlorobenzene	mg/kg	0.408	24	113	---	---	EPA 8260B	<0.023	<0.025	<0.023	<0.020	<0.022	<0.017
1,2,4-Trimethylbenzene	mg/kg	1.3787**	219	219	---	---	EPA 8260B	<0.024	<0.026	<0.024	<0.021	<0.023	<0.018
1,2-Dibromo-3-chloropropane	mg/kg	0.0002	0.008	0.092	---	---	EPA 8260B	<0.14	<0.14	<0.13	<0.12	<0.13	<0.10
1,2-Dibromoethane	mg/kg	0.0000282	0.05	0.221	---	---	EPA 8260B	<0.026	<0.028	<0.026	<0.022	<0.025	<0.019
1,2-Dichlorobenzene	mg/kg	1.168	376	376	---	---	EPA 8260B	<0.023	<0.024	<0.023	<0.019	<0.022	<0.017
1,2-Dichloroethane	mg/kg	0.0028	0.652	2.87	---	---	EPA 8260B	<0.027	<0.028	<0.027	<0.023	<0.026	<0.020
1,2-Dichloropropane	mg/kg	0.0033	3.4	15	---	---	EPA 8260B	<0.029	<0.031	<0.029	<0.025	<0.028	<0.021
1,3,5-Trimethylbenzene	mg/kg	1.3787**	182	182	---	---	EPA 8260B	<0.026	<0.027	<0.026	<0.022	<0.025	<0.019
1,3-Dichlorobenzene	mg/kg	1.1528	297	297	---	---	EPA 8260B	<0.027	<0.029	<0.027	<0.023	<0.026	<0.020
1,3-Dichloropropane	mg/kg	0.0003	1,490	1,490	---	---	EPA 8260B	<0.025	<0.026	<0.024	<0.021	<0.024	<0.018
1,4-Dichlorobenzene	mg/kg	0.144	3.74	16.4	---	---	EPA 8260B	<0.025	<0.026	<0.025	<0.021	<0.024	<0.018
2,2-Dichloropropane	mg/kg	---	191	191	---	---	EPA 8260B	<0.030	<0.032	<0.030	<0.026	<0.029	<0.022
2-Chlorotoluene	mg/kg	---	907	907	---	---	EPA 8260B	<0.021	<0.023	<0.021	<0.018	<0.020	<0.016
4-Chlorotoluene	mg/kg	---	253	253	---	---	EPA 8260B	<0.024	<0.025	<0.024	<0.020	<0.023	<0.018
Benzene	mg/kg	0.0051	1.6	7.07	---	---	EPA 8260B	<0.0099	<0.010	<0.0099	<0.0085	<0.0095	<0.0073
Bromobenzene	mg/kg	---	342	679	---	---	EPA 8260B	<0.024	<0.026	<0.024	<0.021	<0.023	<0.018
Bromochloromethane	mg/kg	---	216	906	---	---	EPA 8260B	<0.029 *+	<0.031	<0.029	<0.025	<0.028	<0.021 *+
Bromodichloromethane	mg/kg	0.0003	0.418	1.83	---	---	EPA 8260B	<0.025	<0.027	<0.025	<0.022	<0.024	<0.019
Bromoform	mg/kg	0.0023	25.4	113	---	---	EPA 8260B	<0.033	<0.035	<0.033	<0.028	<0.031	<0.024
Bromomethane	mg/kg	0.0051	9.6	43	---	---	EPA 8260B	<0.054 *+	<0.057	<0.054	<0.046	<0.052	<0.040 *+
Carbon tetrachloride	mg/kg	0.0039	0.916	4.03	---	---	EPA 8260B	<0.026	<0.028	<0.026	<0.022	<0.025	<0.019
Chlorobenzene	mg/kg	---	370	761	---	---	EPA 8260B	<0.026	<0.028	<0.026	<0.022	<0.025	<0.019
Chloroethane	mg/kg	0.2266	2,120	2,120	---	---	EPA 8260B	<0.034	<0.036	<0.034	<0.029	<0.033	<0.025
Chloroform	mg/kg	0.0033	0.454	1.98	---	---	EPA 8260B	<0.025	<0.027	<0.025	<0.022	<0.024	<0.019
Chloromethane	mg/kg	0.0155	159	669	---	---	EPA 8260B	<0.022 *-	<0.023	<0.022	<0.019	<0.021	<0.016 *-
cis-1,2-Dichloroethene	mg/kg	0.0412	156	2,340	---	---	EPA 8260B	<0.028	<0.029	<0.028	<0.024	<0.027	<0.020
cis-1,3-Dichloropropene	mg/kg	0.0003	1,210	1,210	---	---	EPA 8260B	<0.028	<0.030	<0.028	<0.024	<0.027	<0.021
Dibromochloromethane	mg/kg	0.032	8.28	38.9	---	---	EPA 8260B	<0.033	<0.035	<0.033	<0.028	<0.032	<0.024
Dibromomethane	mg/kg	---	34	143	---	---	EPA 8260B	<0.018	<0.019	<0.018	<0.016	<0.018	<0.014
Dichlorodifluoromethane	mg/kg	3.0863	126	530	---	---	EPA 8260B	<0.046 *-	<0.048	<0.046	<0.039	<0.044	<0.034 *-
Ethylbenzene	mg/kg	1.57	8.02	35.4	---	---	EPA 8260B	<0.012	<0.013	<0.012	<0.011	<0.012	<0.0092
Hexachlorobutadiene	mg/kg	---	1.63	7.19	---	---	EPA 8260B	<0.030	<0.032	<0.030	<0.026	<0.029	<0.022
Isopropyl ether	mg/kg	---	2,260	2,260	---	---	EPA 8260B	<0.019	<0.020	<0.019	<0.016	<0.018	<0.014
Isopropylbenzene	mg/kg	---	268	268	---	---	EPA 8260B	<0.026	<0.028	<0.026	<0.022	<0.025	<0.019
Methyl tert-butyl ether	mg/kg	0.027	63.8	282	---	---	EPA 8260B	<0.027	<0.028	<0.027	<0.023	<0.026	<0.020
Methylene chloride	mg/kg	0.0026	61.8	1,150	---	---	EPA 8260B	<0.11	<0.12	<0.11	<0.095	<0.11	<0.082
Naphthalene	mg/kg	0.6582	5.52	24.1	---	---	EPA 8260B	<0.023	0.027 J	0.067 J	<0.019	<0.022	<0.017

Table 2
Summary of Soil Quality Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Analyte	Sample ID	NR 720 RCLs for Groundwater Protection (1)	NR 720 RCLs - Non- Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value (1)	NR 661.0024 Toxicity Characteristic	Method	B-10	B-11	B-11	B-11	B-11	Trip Blank
	Depth (feet)							18.5-20'	1-2.5'	6-7.5'	11-12.5'	16-17.5'	---
	Date							3/29/2022	3/22/2022	3/22/2022	3/22/2022	3/22/2022	3/29/2022
	UNITS							500-214387-3	500-214086-1	500-214086-2	500-214086-3	500-214086-4	500-214387-16
n-Butylbenzene	mg/kg	---	108	108	---	---	EPA 8260B	<0.026	<0.028	<0.026	<0.023	<0.025	<0.019
n-Propylbenzene	mg/kg	---	264	264	---	---	EPA 8260B	<0.028	<0.030	<0.028	<0.024	<0.027	<0.021
p-Isopropyltoluene	mg/kg	---	162	162	---	---	EPA 8260B	<0.025	<0.026	<0.024	<0.021	<0.024	<0.018
sec-Butylbenzene	mg/kg	---	145	145	---	---	EPA 8260B	<0.027	<0.029	<0.027	<0.023	<0.026	<0.020
Styrene	mg/kg	0.22	867	867	---	---	EPA 8260B	<0.026	<0.028	<0.026	<0.022	<0.025	<0.019
tert-Butylbenzene	mg/kg	---	183	183	---	---	EPA 8260B	<0.027	<0.029	<0.027	<0.023	<0.026	<0.020
Tetrachloroethene	mg/kg	0.0045	33	145	---	---	EPA 8260B	<0.025	<0.027	<0.025	<0.022	<0.024	<0.019
Toluene	mg/kg	1.1072	818	818	---	---	EPA 8260B	<0.010	<0.011	<0.0099	<0.0086	<0.0096	<0.0074
trans-1,2-Dichloroethene	mg/kg	0.0626	1,560	1,850	---	---	EPA 8260B	<0.024	<0.025	<0.024	<0.020	<0.023	<0.018
trans-1,3-Dichloropropene	mg/kg	---	1,510	1,510	---	---	EPA 8260B	<0.025	<0.026	<0.024	<0.021	<0.024	<0.018
Trichloroethene	mg/kg	0.0036	1.3	8.41	---	---	EPA 8260B	<0.011	<0.012	<0.011	<0.0095	<0.011	<0.0082
Trichlorofluoromethane	mg/kg	---	1,230	1,230	---	---	EPA 8260B	<0.029	<0.031	<0.029	<0.025	<0.028	<0.021
Vinyl chloride	mg/kg	0.0001	0.067	2.08	---	---	EPA 8260B	<0.018 *-	<0.019	<0.018	<0.015	<0.017	<0.013 *-
Xylenes, Total	mg/kg	3.96	260	260	---	---	EPA 8260B	<0.015	0.042	<0.015	<0.013	<0.014	<0.011
TCLP Metals													
Arsenic	mg/L	---	---	---	---	5	EPA 6010C	---	---	---	---	---	---
Barium	mg/L	---	---	---	---	100	EPA 6010C	---	---	---	---	---	---
Cadmium	mg/L	---	---	---	---	1	EPA 6010C	---	---	---	---	---	---
Chromium	mg/L	---	---	---	---	5	EPA 6010C	---	---	---	---	---	---
Copper	mg/L	---	---	---	---	---	EPA 6010C	---	---	---	---	---	---
Lead	mg/L	---	---	---	---	5	EPA 6010C	---	---	---	---	---	---
Nickel	mg/L	---	---	---	---	---	EPA 6010C	---	---	---	---	---	---
Selenium	mg/L	---	---	---	---	1	EPA 6010C	---	---	---	---	---	---
Silver	mg/L	---	---	---	---	5	EPA 6010C	---	---	---	---	---	---
Zinc	mg/L	---	---	---	---	---	EPA 6010C	---	---	---	---	---	---
Mercury	mg/L	---	---	---	---	0.2	EPA 7470A	---	---	---	---	---	---
Notes:													
(1) From WDNR RCLs Worksheet dated December 2018													
Bold = Exceeds RCL													
--- = Not analyzed / No established standard													
B = Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank. *3 = ISTD Response or Retention Time Outside Acceptable Limits.													
J = Estimated: The analyte was positively identified; the quantitation is an estimation. F1 = MS and/or MSD Recovery Exceed Control Limits. F2 = MS/MSD Rpd Exceeds Control Limits.													

Table 3
Summary of Landfill Waste Characterization Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Analyte	Sample ID	NR 720 RCLs for Groundwater Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value (1)	NR 661.0024 Toxicity Characteristic	Method	B-3	B-6
	Depth (feet)							15.5-17'	10.5-15'
	Date							3/29/2022	3/22/2022
	UNITS							500-214387-15	500-214086-10
Physical Characteristics									
Moisture, Percent	%	---	---	---	---	---	Moisture	16.1	16.6
Solids, Percent	%	---	---	---	---	---	Moisture	83.9	83.4
Resource Conservation and Recovery Act (RCRA) Metals									
Arsenic	mg/kg	0.584	0.677	3	8	---	EPA 6010B	5.8	5.4
Barium	mg/kg	164.8	15,300	100,000	364	---	EPA 6010B	23	63
Cadmium	mg/kg	0.752	71.1	985	1	---	EPA 6010B	0.22 B	0.056 J B
Chromium	mg/kg	360,000*	---	---	44	---	EPA 6010B	14 B	23 B
Lead	mg/kg	27	400	800	51.6	---	EPA 6010B	9.4	21
Selenium	mg/kg	0.52	391	5840	---	---	EPA 6010B	<0.61	<0.70
Silver	mg/kg	0.8491	391	5,840	---	---	EPA 6010B	0.17 J	0.26 J
Mercury	mg/kg	0.208	3.13	3.13	---	---	EPA 7471A	0.02	---
TCLP RCRA Metals									
Arsenic	mg/L	---	---	---	---	5	EPA 6010C	<0.010	<0.010
Barium	mg/L	---	---	---	---	100	EPA 6010C	0.17 J	0.32 J
Cadmium	mg/L	---	---	---	---	1	EPA 6010C	0.0046 J	<0.0020
Chromium	mg/L	---	---	---	---	5	EPA 6010C	<0.010	<0.010
Copper	mg/L	---	---	---	---	---	EPA 6010C	0.014 J	<0.010
Lead	mg/L	---	---	---	---	5	EPA 6010C	<0.0075	<0.0075
Nickel	mg/L	---	---	---	---	---	EPA 6010C	0.024 J	<0.010
Selenium	mg/L	---	---	---	---	1	EPA 6010C	<0.020	<0.020
Silver	mg/L	---	---	---	---	5	EPA 6010C	<0.010	<0.010
Zinc	mg/L	---	---	---	---	---	EPA 6010C	0.17	<0.020
Mercury	mg/L	---	---	---	---	0.2	EPA 7470A	<0.00020	<0.00020
Polychlorinated Biphenyls (PCBs)									
PCB-1016	mg/kg	0.009384	4.11	28	---	---	EPA 8082A	<0.0074	<0.0076
PCB-1221	mg/kg		0.213	0.883	---	---	EPA 8082A	<0.0074	<0.0076
PCB-1232	mg/kg		0.19	0.792	---	---	EPA 8082A	<0.0051	<0.0053
PCB-1242	mg/kg		0.235	0.972	---	---	EPA 8082A	<0.0074	<0.0075
PCB-1248	mg/kg		0.236	0.975	---	---	EPA 8082A	<0.0090	<0.0092
PCB-1254	mg/kg		0.239	0.988	---	---	EPA 8082A	<0.0064	<0.0066
PCB-1260	mg/kg		0.243	1	---	---	EPA 8082A	<0.0071	<0.0073
Total PCBs	mg/kg	0.009384	---	---	---	50	EPA 8082A	<0.0051	<0.0053
Polynuclear Aromatic Hydrocarbons (PAHs)									
1-Methylnaphthalene	mg/L	---	17.6	72.7	---	---	EPA 8270D	<0.0096	---
2-Methylnaphthalene	mg/L	---	239	3010	---	---	EPA 8270D	<0.0072	---
Acenaphthene	mg/L	---	3590	45200	---	---	EPA 8270D	<0.0071	---
Acenaphthylene	mg/L	---	---	---	---	---	EPA 8270D	0.0066 J	---
Anthracene	mg/L	196.949	17900	100000	---	---	EPA 8270D	0.021 J	---
Benzo[a]anthracene	mg/L	---	1.14	20.8	---	---	EPA 8270D	0.027 J	---
Benzo[a]pyrene	mg/L	0.47	0.115	2.11	---	---	EPA 8270D	0.023 J	---
Benzo[b]fluoranthene	mg/L	0.4781	1.15	21.1	---	---	EPA 8270D	<0.0085	---
Benzo[g,h,i]perylene	mg/L	---	---	---	---	---	EPA 8270D	<0.013	---
Benzo[k]fluoranthene	mg/L	---	11.5	211	---	---	EPA 8270D	<0.012	---
Chrysene	mg/L	0.1442	115	2110	---	---	EPA 8270D	<0.011	---
Dibenz(a,h)anthracene	mg/L	---	0.115	2.11	---	---	EPA 8270D	<0.0076	---
Fluoranthene	mg/L	88.8778	2390	30100	---	---	EPA 8270D	0.056	---
Fluorene	mg/L	14.8299	2390	30100	---	---	EPA 8270D	0.011 J	---
Indeno[1,2,3-cd]pyrene	mg/L	---	1.15	21.1	---	---	EPA 8270D	<0.010	---
Naphthalene	mg/L	0.6582	5.52	24.1	---	---	EPA 8270D	<0.0060	---
Phenanthrene	mg/L	---	---	---	---	---	EPA 8270D	0.04	---
Pyrene	mg/L	54.5455	1790	22600	---	---	EPA 8270D	0.046	---
Volatile Organic Compounds (VOCs)									
1,1,1,2-Tetrachloroethane	mg/kg	0.0534	2.78	12.3	---	---	EPA 8260B	<0.032	<0.030
1,1,1-Trichloroethane	mg/kg	0.1402	640	640	---	---	EPA 8260B	<0.026	<0.025

Table 3
Summary of Landfill Waste Characterization Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Analyte	Sample ID	NR 720 RCLs for Groundwater Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value (1)	NR 661.0024 Toxicity Characteristic	Method	B-3	B-6
	Depth (feet)							15.5-17'	10.5-15'
	Date							3/29/2022	3/22/2022
UNITS							500-214387-15	500-214086-10	
1,1,2,2-Tetrachloroethane	mg/kg	0.0002	0.81	3.6	---	---	EPA 8260B	<0.028	<0.026
1,1,2-Trichloroethane	mg/kg	0.0032	1.59	7.01	---	---	EPA 8260B	<0.024	<0.023
1,1-Dichloroethane	mg/kg	0.4834	5.06	22.2	---	---	EPA 8260B	<0.028	<0.027
1,1-Dichloroethene	mg/kg	0.005	320	1,190	---	---	EPA 8260B	<0.027	<0.025
1,1-Dichloropropene	mg/kg	---	---	---	---	---	EPA 8260B	<0.021	<0.019
1,2,3-Trichlorobenzene	mg/kg	---	62.6	934	---	---	EPA 8260B	<0.032	<0.030
1,2,3-Trichloropropane	mg/kg	0.0519	0.005	0.109	---	---	EPA 8260B	<0.029	<0.027
1,2,4-Trichlorobenzene	mg/kg	0.408	24	113	---	---	EPA 8260B	<0.024	<0.022
1,2,4-Trimethylbenzene	mg/kg	1.3787**	219	219	---	---	EPA 8260B	<0.025	<0.023
1,2-Dibromo-3-chloropropane	mg/kg	0.0002	0.008	0.092	---	---	EPA 8260B	<0.14	<0.13
1,2-Dibromoethane	mg/kg	0.000282	0.05	0.221	---	---	EPA 8260B	<0.027	<0.025
1,2-Dichlorobenzene	mg/kg	1.168	376	376	---	---	EPA 8260B	<0.023	<0.022
1,2-Dichloroethane	mg/kg	0.0028	0.652	2.87	---	---	EPA 8260B	<0.027	<0.025
1,2-Dichloropropane	mg/kg	0.0033	3.4	15	---	---	EPA 8260B	<0.030	<0.028
1,3,5-Trimethylbenzene	mg/kg	1.3787**	182	182	---	---	EPA 8260B	<0.026	<0.025
1,3-Dichlorobenzene	mg/kg	1.1528	297	297	---	---	EPA 8260B	<0.028	<0.026
1,3-Dichloropropane	mg/kg	0.0003	1,490	1,490	---	---	EPA 8260B	<0.025	<0.024
1,4-Dichlorobenzene	mg/kg	0.144	3.74	16.4	---	---	EPA 8260B	<0.025	<0.024
2,2-Dichloropropane	mg/kg	---	191	191	---	---	EPA 8260B	<0.031	<0.029
2-Chlorotoluene	mg/kg	---	907	907	---	---	EPA 8260B	<0.022	<0.020
4-Chlorotoluene	mg/kg	---	253	253	---	---	EPA 8260B	<0.024	<0.023
Benzene	mg/kg	0.0051	1.6	7.07	---	---	EPA 8260B	<0.010	<0.0095
Bromobenzene	mg/kg	---	342	679	---	---	EPA 8260B	<0.025	<0.023
Bromochloromethane	mg/kg	---	216	906	---	---	EPA 8260B	<0.030	<0.028
Bromodichloromethane	mg/kg	0.0003	0.418	1.83	---	---	EPA 8260B	<0.026	<0.024
Bromoform	mg/kg	0.0023	25.4	113	---	---	EPA 8260B	<0.033	<0.031
Bromomethane	mg/kg	0.0051	9.6	43	---	---	EPA 8260B	<0.055	<0.052
Carbon tetrachloride	mg/kg	0.0039	0.916	4.03	---	---	EPA 8260B	<0.027	<0.025
Chlorobenzene	mg/kg	---	370	761	---	---	EPA 8260B	<0.027	<0.025
Chloroethane	mg/kg	0.2266	2,120	2,120	---	---	EPA 8260B	<0.035	<0.033
Chloroform	mg/kg	0.0033	0.454	1.98	---	---	EPA 8260B	<0.026	<0.024
Chloromethane	mg/kg	0.0155	159	669	---	---	EPA 8260B	<0.022	<0.021
cis-1,2-Dichloroethene	mg/kg	0.0412	156	2,340	---	---	EPA 8260B	<0.028	<0.027
cis-1,3-Dichloropropene	mg/kg	0.0003	1,210	1,210	---	---	EPA 8260B	<0.029	<0.027
Dibromochloromethane	mg/kg	0.032	8.28	38.9	---	---	EPA 8260B	<0.034	<0.032
Dibromomethane	mg/kg	---	34	143	---	---	EPA 8260B	<0.019	<0.018
Dichlorodifluoromethane	mg/kg	3.0863	126	530	---	---	EPA 8260B	<0.047	<0.044
Ethylbenzene	mg/kg	1.57	8.02	35.4	---	---	EPA 8260B	<0.013	<0.012
Hexachlorobutadiene	mg/kg	---	1.63	7.19	---	---	EPA 8260B	<0.031	<0.029
Isopropyl ether	mg/kg	---	2,260	2,260	---	---	EPA 8260B	<0.019	<0.018
Isopropylbenzene	mg/kg	---	268	268	---	---	EPA 8260B	<0.027	<0.025
Methyl tert-butyl ether	mg/kg	0.027	63.8	282	---	---	EPA 8260B	<0.027	<0.026
Methylene chloride	mg/kg	0.0026	61.8	1,150	---	---	EPA 8260B	<0.11	<0.11
Naphthalene	mg/kg	0.6582	5.52	24.1	---	---	EPA 8260B	<0.023	<0.022
n-Butylbenzene	mg/kg	---	108	108	---	---	EPA 8260B	<0.027	<0.025
n-Propylbenzene	mg/kg	---	264	264	---	---	EPA 8260B	<0.029	<0.027
p-Isopropyltoluene	mg/kg	---	162	162	---	---	EPA 8260B	<0.025	<0.024
sec-Butylbenzene	mg/kg	---	145	145	---	---	EPA 8260B	<0.028	<0.026
Styrene	mg/kg	0.22	867	867	---	---	EPA 8260B	<0.027	<0.025
tert-Butylbenzene	mg/kg	---	183	183	---	---	EPA 8260B	<0.028	<0.026
Tetrachloroethene	mg/kg	0.0045	33	145	---	---	EPA 8260B	<0.026	<0.024
Toluene	mg/kg	1.1072	818	818	---	---	EPA 8260B	<0.010	<0.0096
trans-1,2-Dichloroethene	mg/kg	0.0626	1,560	1,850	---	---	EPA 8260B	<0.024	<0.023
trans-1,3-Dichloropropene	mg/kg	---	1,510	1,510	---	---	EPA 8260B	<0.025	<0.024
Trichloroethene	mg/kg	0.0036	1.3	8.41	---	---	EPA 8260B	<0.011	<0.011

Table 3
Summary of Landfill Waste Characterization Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Analyte	Sample ID	NR 720 RCLs for Groundwater Protection (1)	NR 720 RCLs - Non-Industrial Use for Direct Contact Protection (1)	NR 720 RCLs - Industrial Use for Direct Contact Protection (1)	Background Threshold Value (1)	NR 661.0024 Toxicity Characteristic	Method	B-3	B-6
	Depth (feet)							15.5-17'	10.5-15'
	Date							3/29/2022	3/22/2022
UNITS								500-214387-15	500-214086-10
Trichlorofluoromethane	mg/kg	---	1,230	1,230	---	---	EPA 8260B	<0.030	<0.028
Vinyl chloride	mg/kg	0.0001	0.067	2.08	---	---	EPA 8260B	<0.018	<0.017
Xylenes, Total	mg/kg	3.96	260	260	---	---	EPA 8260B	<0.015	<0.014
TCLP VOCs									
1,1-Dichloroethene	mg/L	---	---	---	---	0.7	EPA 8260B	<0.010	<0.010
1,2-Dichloroethane	mg/L	---	---	---	---	0.5	EPA 8260B	<0.010	<0.010
Benzene	mg/L	---	---	---	---	0.5	EPA 8260B	<0.010	<0.010
Carbon tetrachloride	mg/L	---	---	---	---	0.5	EPA 8260B	<0.010	<0.010
Chlorobenzene	mg/L	---	---	---	---	100	EPA 8260B	<0.010	<0.010
Chloroform	mg/L	---	---	---	---	6	EPA 8260B	<0.020	<0.020
Methyl Ethyl Ketone	mg/L	---	---	---	---	200	EPA 8260B	<0.050	<0.050
Tetrachloroethene	mg/L	---	---	---	---	0.7	EPA 8260B	<0.010	<0.010
Trichloroethene	mg/L	---	---	---	---	0.5	EPA 8260B	<0.010	<0.010
Vinyl chloride	mg/L	---	---	---	---	0.2	EPA 8260B	<0.010	<0.010
TCLP Semi-Volatile Organic Compounds (SVOCs)									
1,4-Dichlorobenzene	mg/L	---	---	---	---	---	EPA 8270D	<0.020	<0.10
2,4,5-Trichlorophenol	mg/L	---	---	---	---	400	EPA 8270D	<0.10	<0.50
2,4,6-Trichlorophenol	mg/L	---	---	---	---	2	EPA 8270D	<0.050	<0.25
2,4-Dinitrotoluene	mg/L	---	---	---	---	0.13	EPA 8270D	<0.010	<0.050
2-Methylphenol	mg/L	---	---	---	---	---	EPA 8270D	<0.020	<0.10
3 & 4 Methylphenol	mg/L	---	---	---	---	---	EPA 8270D	<0.020	<0.10
Hexachlorobenzene	mg/L	---	---	---	---	0.13	EPA 8270D	<0.0050	<0.025
Hexachlorobutadiene	mg/L	---	---	---	---	0.5	EPA 8270D	<0.050 *3	<0.25
Hexachloroethane	mg/L	---	---	---	---	3	EPA 8270D	<0.050	<0.25
Nitrobenzene	mg/L	---	---	---	---	2	EPA 8270D	<0.010 *3	<0.050
Pentachlorophenol	mg/L	---	---	---	---	100	EPA 8270D	<0.20	<1.0
Pyridine	mg/L	---	---	---	---	5	EPA 8270D	<0.20	<1.0
Hazardous Waste Evaluation Parameters									
Cyanide	mg/Kg	4.04	27.1	195	---	250	9012B	<0.12	<0.11
Sulfide	mg/Kg	---	---	---	---	250	9034_Calc	<4.6	<4.7
pH	SU	---	---	---	---	2.0 to 12.5	9045D	7.4 HF	7.7
Paint Filter	No Unit	---	---	---	---	No Free Liquids	9095B	Pass	Pass
Total Chlorine	%	---	---	---	---	1	9251_Total_Cl	<0.091	<0.092
Specific Gravity	No Unit	---	---	---	---	---	2710F	2.1371	2.1136

Notes:

(1) From WDNR RCLs Worksheet dated December 2018

Italics = Exceeds Groundwater Protection RCL

BOLD = Exceeds Non-industrial Direct Contact RCL

BOLD Underlined = Exceeds Industrial Direct Contact RCL

--- = Not analyzed / No established standard

B = Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank. *3 = ISTD Response or Retention Time Outside Acceptable Limits.

J = Estimated: The analyte was positively identified; the quantitation is an estimation. F1 = MS and/or MSD Recovery Exceed Control Limits. F2 = MS/MSD Rpd Exceeds Control Limits.

Table 4
Summary of Groundwater Quality Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Parameters	Method	Unit	NR 140 PAL*	NR 140 ES*	MMSD Chapter 11 Discharge Parameters	Drums	MW-1	MW-2	MW-3	Trip Blank
Date						4/11/2022	4/11/2022	4/11/2022	4/11/2022	4/11/2022
Dissolved Metals										
Arsenic	6020A	ug/L	1	10	---	---	2.6	8.7	1.5	---
Barium	6020A	ug/L	400	2000	---	---	820 B	400 B	170 B	---
Cadmium	6020A	ug/L	0.5	5	---	---	0.26 J	0.22 J	<0.17	---
Chromium	6020A	ug/L	10	100	---	---	<1.1	23	<1.1	---
Lead	6020A	ug/L	1.5	15	---	---	0.23 J	9.5	0.24 J	---
Selenium	6020A	ug/L	10	50	---	---	2.0 J	2.8	2.7	---
Silver	6020A	ug/L	10	50	---	---	<0.12	<0.12	<0.12	---
Mercury	7470A	ug/L	0.2	2	---	---	<0.098	<0.49	<0.098	---
Semi-Volatile Organic Compounds (SVOCs)										
1,2,4,5-Tetrachlorobenzene	8270D	ug/L	---	---	---	<0.58	---	---	---	---
1-Methylnaphthalene	8270D	ug/L	---	---	---	---	<0.29	<0.23	<0.23	---
2,4,6-Trichlorophenol	8270D	ug/L	---	---	---	<0.61	---	---	---	---
2-Methylnaphthalene	8270D	ug/L	---	---	---	---	<0.064	<0.050	<0.049	---
3,3'-Dichlorobenzidine	8270D	ug/L	---	---	---	<0.40	---	---	---	---
Acenaphthene	8270D	ug/L	---	---	---	---	<0.30	0.83	<0.23	---
Acenaphthylene	8270D	ug/L	---	---	---	---	<0.26	<0.21	<0.20	---
Anthracene	8270D	ug/L	600	3000	---	---	<0.33	0.48 J	<0.25	---
Benzo[a]anthracene	8270D	ug/L	---	---	---	---	<0.055	0.37	<0.042	---
Benzo[a]pyrene	8270D	ug/L	0.02	0.2	---	<0.47	<0.097	0.30	<0.074	---
Benzo[b]fluoranthene	8270D	ug/L	0.02	0.2	---	---	<0.079	0.27	<0.060	---
Benzo[g,h,i]perylene	8270D	ug/L	---	---	---	---	<0.37	<0.29	<0.28	---
Benzo[k]fluoranthene	8270D	ug/L	---	---	---	---	<0.063	0.20	<0.048	---
Chrysene	8270D	ug/L	0.02	0.2	---	---	<0.067	0.24	<0.051	---
Dibenz(a,h)anthracene	8270D	ug/L	---	---	---	---	<0.050	<0.039	<0.038	---
Fluoranthene	8270D	ug/L	80	400	---	<0.40	<0.44	1.5	<0.34	---
Fluorene	8270D	ug/L	80	400	---	---	<0.24	0.50 J	<0.18	---
Hexachlorobenzene	8270D	ug/L	0.1	1	---	<0.51	---	---	---	---
Indeno[1,2,3-cd]pyrene	8270D	ug/L	---	---	---	---	<0.073	<0.057	<0.056	---
Naphthalene	8270D	ug/L	10	100	---	---	<0.30	<0.24	<0.23	---
Pentachlorobenzene	8270D	ug/L	---	---	---	<0.53	---	---	---	---
Phenanthrene	8270D	ug/L	---	---	---	---	<0.29	1.5	<0.23	---
Pyrene	8270D	ug/L	50	250	---	---	<0.42	1.2	<0.32	---
Tetraethyl lead	8270D	ug/L	---	---	---	<2.0	---	---	---	---
Volatile Organic Compounds (VOCs)										
1,1,1,2-Tetrachloroethane	8260B	ug/L	7	70	---	---	<0.46	<0.46	<0.46	<0.46
1,1,1-Trichloroethane	8260B	ug/L	40	200	---	---	<0.38	<0.38	<0.38	<0.46
1,1,2,2-Tetrachloroethane	8260B	ug/L	0.02	0.2	---	---	<0.40	<0.40	<0.40	<0.46
1,1,2-Trichloroethane	8260B	ug/L	0.5	5	---	---	<0.35	<0.35	<0.35	<0.46
1,1-Dichloroethane	8260B	ug/L	85	850	---	---	<0.41	<0.41	<0.41	<0.46
1,1-Dichloroethene	8260B	ug/L	0.7	7	---	---	<0.39	<0.39	<0.39	<0.46
1,1-Dichloropropene	8260B	ug/L	---	---	---	---	<0.30	<0.30	<0.30	<0.46
1,2,3-Trichlorobenzene	8260B	ug/L	---	---	---	---	<0.46	<0.46	<0.46	<0.46
1,2,3-Trichloropropane	8260B	ug/L	12	60	---	---	<0.41	<0.41	<0.41	<0.46

Table 4
Summary of Groundwater Quality Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Parameters	Method	Unit	NR 140 PAL*	NR 140 ES*	MMSD Chapter 11 Discharge Parameters	Drums	MW-1	MW-2	MW-3	Trip Blank
Date						4/11/2022	4/11/2022	4/11/2022	4/11/2022	4/11/2022
1,2,4-Trichlorobenzene	8260B	ug/L	14	70	---	---	<0.34	<0.34	<0.34	<0.46
1,2,4-Trimethylbenzene	8260B	ug/L	96	480	---	---	<0.36	<0.36	<0.36	<0.46
1,2-Dibromo-3-Chloropropane	8260B	ug/L	0.02	0.2	---	---	<2.0	<2.0	<2.0	<0.46
1,2-Dibromoethane	8260B	ug/L	0.005	0.05	---	---	<0.39	<0.39	<0.39	<0.46
1,2-Dichlorobenzene	8260B	ug/L	60	600	---	---	<0.33	<0.33	<0.33	<0.46
1,2-Dichloroethane	8260B	ug/L	0.5	5	---	---	<0.39	<0.39	<0.39	<0.46
1,2-Dichloropropane	8260B	ug/L	0.5	5	---	---	<0.43	<0.43	<0.43	<0.46
1,3,5-Trimethylbenzene	8260B	ug/L	96	480	---	---	<0.25	<0.25	<0.25	<0.46
1,3-Dichlorobenzene	8260B	ug/L	60	600	---	---	<0.40	<0.40	<0.40	<0.46
1,3-Dichloropropane	8260B	ug/L	---	---	---	---	<0.36	<0.36	<0.36	<0.46
1,4-Dichlorobenzene	8260B	ug/L	15	75	---	---	<0.36	<0.36	<0.36	<0.46
2,2-Dichloropropane	8260B	ug/L	---	---	---	---	<0.44	<0.44	<0.44	<0.46
2-Chlorotoluene	8260B	ug/L	---	---	---	---	<0.31	<0.31	<0.31	<0.46
4-Chlorotoluene	8260B	ug/L	---	---	---	---	<0.35	<0.35	<0.35	<0.46
Benzene	8260B	ug/L	0.5	5	---	<23	---	---	---	<0.46
Bromobenzene	8260B	ug/L	---	---	---	---	<0.15	<0.15	<0.15	<0.46
Bromochloromethane	8260B	ug/L	---	---	---	---	<0.36	<0.36	<0.36	<0.46
Bromodichloromethane	8260B	ug/L	0.06	0.6	---	---	<0.43	<0.43	<0.43	<0.46
Bromoform	8260B	ug/L	0.44	4.4	---	---	<0.37	<0.37	<0.37	<0.46
Bromomethane	8260B	ug/L	1	10	---	---	<0.48	<0.48	<0.48	<0.46
Carbon tetrachloride	8260B	ug/L	0.5	5	---	---	<0.80	<0.80	<0.80	<0.46
Chlorobenzene	8260B	ug/L	---	---	---	---	<0.38	<0.38	<0.38	<0.46
Chloroethane	8260B	ug/L	80	400	---	---	<0.39	<0.39	<0.39	<0.46
Chloroform	8260B	ug/L	0.6	6	---	---	<0.51	<0.51	<0.51	<0.46
Chloromethane	8260B	ug/L	3	30	---	---	<0.37	<0.37	<0.37	<0.46
cis-1,2-Dichloroethene	8260B	ug/L	7	70	---	---	<0.32	<0.32	<0.32	<0.46
cis-1,3-Dichloropropene	8260B	ug/L	0.04	0.4	---	---	<0.41	<0.41	<0.41	<0.46
Dibromochloromethane	8260B	ug/L	6	60	---	---	<0.42	<0.42	<0.42	<0.46
Dibromomethane	8260B	ug/L	---	---	---	---	<0.49	<0.49	<0.49	<0.46
Dichlorodifluoromethane	8260B	ug/L	200	1000	---	---	<0.27	<0.27	<0.27	<0.46
Ethylbenzene	8260B	ug/L	140	700	---	---	<0.67	<0.67	<0.67	<0.46
Hexachlorobutadiene	8260B	ug/L	0.1	1	---	---	<0.18	<0.18	<0.18	<0.46
Isopropyl ether	8260B	ug/L	---	---	---	---	<0.45	<0.45	<0.45	<0.46
Isopropylbenzene	8260B	ug/L	---	---	---	---	<0.28	<0.28	<0.28	<0.46
Methyl tert-butyl ether	8260B	ug/L	12	60	---	---	<0.39	<0.39	<0.39	<0.46
Methylene Chloride	8260B	ug/L	0.5	5	---	---	<0.39	<0.39	<0.39	<0.46
Naphthalene	8260B	ug/L	10	100	---	---	<1.6	<1.6	<1.6	<0.46
n-Butylbenzene	8260B	ug/L	---	---	---	---	<0.34	<0.34	<0.34	<0.46
N-Propylbenzene	8260B	ug/L	---	---	---	---	<0.39	<0.39	<0.39	<0.46
p-Isopropyltoluene	8260B	ug/L	---	---	---	---	<0.41	<0.41	<0.41	<0.46
sec-Butylbenzene	8260B	ug/L	---	---	---	---	<0.36	<0.36	<0.36	<0.46
Styrene	8260B	ug/L	10	100	---	---	<0.40	<0.40	<0.40	<0.46
tert-Butylbenzene	8260B	ug/L	---	---	---	---	<0.39	<0.39	<0.39	<0.46
Tetrachloroethene	8260B	ug/L	0.5	5	---	---	<0.40	<0.40	<0.40	<0.46

Table 4
 Summary of Groundwater Quality Test Results
 MMSD VA Grounds MIS Relocation Project, C06023D01

Parameters	Method	Unit	NR 140 PAL*	NR 140 ES*	MMSD Chapter 11 Discharge Parameters	Drums	MW-1	MW-2	MW-3	Trip Blank
Date						4/11/2022	4/11/2022	4/11/2022	4/11/2022	4/11/2022
Toluene	8260B	ug/L	160	800	---	---	<0.37	<0.37	<0.37	<0.46
trans-1,2-Dichloroethene	8260B	ug/L	20	100	---	---	<0.15	<0.15	<0.15	<0.46
trans-1,3-Dichloropropene	8260B	ug/L	0.04	0.4	---	---	<0.35	<0.35	<0.35	<0.46

Table 4
Summary of Groundwater Quality Test Results
MMSD VA Grounds MIS Relocation Project, C06023D01

Parameters	Method	Unit	NR 140 PAL*	NR 140 ES*	MMSD Chapter 11 Discharge Parameters	Drums	MW-1	MW-2	MW-3	Trip Blank
Date						4/11/2022	4/11/2022	4/11/2022	4/11/2022	4/11/2022
Trichloroethene	8260B	ug/L	0.5	5	---	---	<0.36	<0.36	<0.36	<0.46
Trichlorofluoromethane	8260B	ug/L	---	---	---	---	<0.16	<0.16	<0.16	<0.46
Vinyl chloride	8260B	ug/L	0.02	0.2	---	---	<0.43	<0.43	<0.43	<0.46
Xylenes, Total	8260B	ug/L	800	4000	---	---	<0.20	<0.20	<0.20	<0.46
Total Trimethylbenzenes	8260B	ug/L	96	480	---	---	<0.22	<0.22	<0.22	<0.46
Polychlorinated Biphenyls (PCBs)										
PCB-1016	8082A	ug/L	---	---	---	<0.063 *+ *1	<0.13 *+ *1	<0.067 *+ *1	<0.063 *+ *1	---
PCB-1221	8082A	ug/L	---	---	---	<0.19	<0.37	<0.20	<0.19	---
PCB-1232	8082A	ug/L	---	---	---	<0.19	<0.37	<0.20	<0.19	---
PCB-1242	8082A	ug/L	---	---	---	<0.19	<0.37	<0.20	<0.19	---
PCB-1248	8082A	ug/L	---	---	---	<0.19	<0.37	<0.20	<0.19	---
PCB-1254	8082A	ug/L	---	---	---	<0.19	<0.37	<0.20	<0.19	---
PCB-1260	8082A	ug/L	---	---	---	<0.066 *+ *1	<0.13 *+ *1	<0.070 *+ *1	<0.066 *+ *1	---
Polychlorinated biphenyls, Total	8082A	ug/L	0.003	0.03	---	---	<0.37	<0.20	<0.19	---
MMSD Chapter 11 Discharge Parameters										
Arsenic	EPA 6010C	mg/L	---	---	0.6	0.012	---	---	---	---
Cadmium	EPA 6010C	mg/L	---	---	1.5	0.00092 J B	---	---	---	---
Chromium	EPA 6010C	mg/L	---	---	64	0.027	---	---	---	---
Copper	EPA 6010C	mg/L	---	---	6	0.038 B	---	---	---	---
Lead	EPA 6010C	mg/L	---	---	2	0.0051	---	---	---	---
Molybdenum	EPA 6010C	mg/L	---	---	12	0.0068 J	---	---	---	---
Nickel	EPA 6010C	mg/L	---	---	4	0.036	---	---	---	---
Silver	EPA 6010C	mg/L	---	---	5.8	<0.0015	---	---	---	---
Zinc	EPA 6010C	mg/L	---	---	8	0.13 B	---	---	---	---
Mercury	EPA 7470A	mg/L	---	---	0.0026	<0.000098	---	---	---	---
4,4'-DDT	8018B	ug/L	---	---	Present	<0.055 *+	---	---	---	---
cis-Chlordane	8018B	ug/L	---	---	Present	<0.074	---	---	---	---
Dieldrin	8018B	ug/L	---	---	Present	<0.049	---	---	---	---
Endosulfan I	8018B	ug/L	---	---	Present	<0.055	---	---	---	---
Endosulfan II	8018B	ug/L	---	---	Present	<0.060	---	---	---	---
Endrin	8018B	ug/L	0.4	2	Present	<0.069	---	---	---	---
gamma-BHC (Lindane)	8018B	ug/L	0.02	0.2	Present	<0.040	---	---	---	---
Heptachlor	8018B	ug/L	0.04	0.4	Present	<0.043 *+	---	---	---	---
Mirex	8018B	ug/L	---	---	Present	<0.048	---	---	---	---
Toxaphene	8018B	ug/L	0.3	3	Present	<0.60	---	---	---	---
trans-Chlordane	8018B	ug/L	---	---	Present	<0.055	---	---	---	---
Cyanide	9012D	mg/L	---	---	2.9	0.022	---	---	---	---
Oil & Grease (HEM)	1664B	mg/L	---	---	300	<1.3	---	---	---	---
Total Suspended Solids	2540D	mg/L	---	---	---	890	---	---	---	---
Total TCDF	1613B	pg/L	---	---	Present	23 I q B	---	---	---	---
Total TCDD	1613B	pg/L	---	---	Present	3.1 J q	---	---	---	---
Total PeCDF	1613B	pg/L	---	---	Present	17 J I q S B	---	---	---	---
Total PeCDD	1613B	pg/L	---	---	Present	1.0 J q B	---	---	---	---

Table 4
 Summary of Groundwater Quality Test Results
 MMSD VA Grounds MIS Relocation Project, C06023D01

Parameters	Method	Unit	NR 140 PAL*	NR 140 ES*	MMSD Chapter 11 Discharge Parameters	Drums	MW-1	MW-2	MW-3	Trip Blank
Date						4/11/2022	4/11/2022	4/11/2022	4/11/2022	4/11/2022
Total HxCDF	1613B	pg/L	---	---	Present	9.5 J I q B	---	---	---	---
Total HxCDD	1613B	pg/L	---	---	Present	9.8 J q S B	---	---	---	---
Total HpCDF	1613B	pg/L	---	---	Present	8.4 J q B	---	---	---	---
Total HpCDD	1613B	pg/L	---	---	Present	24 J q B	---	---	---	---
OCDF	1613B	pg/L	---	---	Present	9.6 J B	---	---	---	---
OCDD	1613B	pg/L	---	---	Present	120 B	---	---	---	---
2,3,7,8-TCDF	1613B	pg/L	---	---	Present	0.15 J	---	---	---	---
2,3,7,8-TCDD	1613B	pg/L	3	30	Present	<0.11	---	---	---	---
2,3,4,7,8-PeCDF	1613B	pg/L	---	---	Present	<0.13	---	---	---	---
2,3,4,6,7,8-HxCDF	1613B	pg/L	---	---	Present	<0.26	---	---	---	---
1,2,3,7,8-PeCDF	1613B	pg/L	---	---	Present	0.67 J B	---	---	---	---
1,2,3,7,8-PeCDD	1613B	pg/L	---	---	Present	0.64 J q B	---	---	---	---
1,2,3,7,8,9-HxCDF	1613B	pg/L	---	---	Present	<0.33	---	---	---	---
1,2,3,7,8,9-HxCDD	1613B	pg/L	---	---	Present	0.50 J q S B	---	---	---	---
1,2,3,6,7,8-HxCDF	1613B	pg/L	---	---	Present	1.4 J I B	---	---	---	---
1,2,3,6,7,8-HxCDD	1613B	pg/L	---	---	Present	1.1 J q B	---	---	---	---
1,2,3,4,7,8-HxCDF	1613B	pg/L	---	---	Present	0.66 J q B	---	---	---	---
1,2,3,4,7,8-HxCDD	1613B	pg/L	---	---	Present	1.6 J q B	---	---	---	---
1,2,3,4,7,8,9-HpCDF	1613B	pg/L	---	---	Present	1.4 J q B	---	---	---	---
1,2,3,4,6,7,8-HpCDF	1613B	pg/L	---	---	Present	4.1 J B	---	---	---	---
1,2,3,4,6,7,8-HpCDD	1613B	pg/L	---	---	Present	13 J B	---	---	---	---

*PALs and ESs based on NR 140 dated June 2021 except for Emerging Contaminants which are suggested by DHS dated November 6, 2020.

Bold = Exceeds NR 140 Enforcement Standard (ES)

Italics = Exceeds NR 140 Preventive Action Limit (PAL)

Analytical Reports

ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-214086-1

Client Project/Site: MMSD VA Grounds MIS Relocation - 40459

For:

K. Singh & Associates, Inc
3636 N. 124th Street
Wauwatosa, Wisconsin 53222

Attn: Mr. Robert Reineke



Authorized for release by:
4/7/2022 12:38:45 PM

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

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



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Case Narrative

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Job ID: 500-214086-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-214086-1

Comments

No additional comments.

Receipt

The samples were received on 3/24/2022 9:55 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6° C.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: 1,4-Dichlorobenzene-d4 and Naphthalene-d8 Internal standard (ISTD) responses for the following samples were outside of acceptance limits: B-6, 10.5-15.5' (500-214086-10) and (MB 500-649875/1-A). Analytes associated to these internal standards were non-detect; therefore, re-extraction/re-analysis was not performed.

Method 8270D: 1,4-Dichlorobenzene-d4 Internal standard (ISTD) responses for the following sample was outside of acceptance limits: (LB 500-649559/1-C). Analytes associated to these internal standards were non-detect; therefore, re-extraction/re-analysis was not performed.

Method 8270D: The laboratory control sample (LCS) for preparation batch 500-649875 and analytical batch 500-649988 recovered outside control limits for the following analyte: Hexachloroethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method 8270D: Internal standard responses for Perylene-d12 was outside of acceptance limits for the following samples: B-11, 1-2.5' (500-214086-1). The samples were run a second time with concurring results. Results with the highest ISTD recovery have been reported.

Method 8270D: The continuing calibration verification (CCV) associated with batch 500-650415 recovered above the upper control limit for Benzo[k]fluoranthene and Dibenz(a,h)anthracene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCVIS 500-650415/2).

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

GC Semi VOA

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

Metals

Method 6010B: The method blank for preparation batch 500-649106 and analytical batch 500-649647 contained Chromium above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results were greater than 10X the value found in the method blank.

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

General Chemistry

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

Organic Prep

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

Detection Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 1-2.5'

Lab Sample ID: 500-214086-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.027	J	0.072	0.024	mg/Kg	50	✳	8260B	Total/NA
Xylenes, Total	0.042		0.036	0.016	mg/Kg	50	✳	8260B	Total/NA
Acenaphthene	0.034	J	0.038	0.0070	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.032	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.23		0.038	0.0065	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	1.1		0.038	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	1.2	*3	0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	1.8	*3	0.038	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.35	*3	0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.67	*3	0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	1.1		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.16	*3	0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	2.0		0.038	0.0072	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.043		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.41	*3	0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
1-Methylnaphthalene	0.012	J	0.078	0.0095	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.013	J	0.078	0.0071	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.018	J	0.038	0.0060	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.65		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	2.2		0.038	0.0077	mg/Kg	1	✳	8270D	Total/NA
Arsenic	6.6		1.2	0.41	mg/Kg	1	✳	6010B	Total/NA
Barium	71		1.2	0.14	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.22	J B	0.24	0.043	mg/Kg	1	✳	6010B	Total/NA
Chromium	22		1.1	0.55	mg/Kg	1	✳	6010B	Total/NA
Lead	50		0.60	0.28	mg/Kg	1	✳	6010B	Total/NA
Silver	0.36	J	0.60	0.16	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.065		0.018	0.0060	mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: B-11, 6-7.5'

Lab Sample ID: 500-214086-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.067	J	0.068	0.023	mg/Kg	50	✳	8260B	Total/NA
Acenaphthene	0.046		0.039	0.0070	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.013	J	0.039	0.0051	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.12		0.039	0.0065	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.24		0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.25		0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.30		0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.069		0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.17		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.23		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.034	J	0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.55		0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.065		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.078		0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
1-Methylnaphthalene	0.018	J	0.079	0.0095	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.020	J	0.079	0.0072	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.026	J	0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.42		0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.51		0.039	0.0077	mg/Kg	1	✳	8270D	Total/NA
Arsenic	5.7		1.0	0.36	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 6-7.5' (Continued)

Lab Sample ID: 500-214086-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	53		1.0	0.12	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.057	J B	0.21	0.038	mg/Kg	1	✳	6010B	Total/NA
Chromium	22	B	1.0	0.52	mg/Kg	1	✳	6010B	Total/NA
Lead	24		0.52	0.24	mg/Kg	1	✳	6010B	Total/NA
Silver	0.30	J	0.52	0.13	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.045		0.019	0.0062	mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: B-11, 11-12.5'

Lab Sample ID: 500-214086-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.031	J	0.035	0.0065	mg/Kg	1	✳	8270D	Total/NA
Arsenic	3.3		1.0	0.34	mg/Kg	1	✳	6010B	Total/NA
Barium	13		1.0	0.11	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.12	J B	0.20	0.036	mg/Kg	1	✳	6010B	Total/NA
Chromium	7.0		0.99	0.49	mg/Kg	1	✳	6010B	Total/NA
Lead	5.9		0.50	0.23	mg/Kg	1	✳	6010B	Total/NA

Client Sample ID: B-11, 16-17.5'

Lab Sample ID: 500-214086-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.0071	J	0.036	0.0049	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.032	J	0.036	0.0068	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.0063	J	0.036	0.0051	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.0078	J	0.036	0.0072	mg/Kg	1	✳	8270D	Total/NA
Arsenic	3.3		1.1	0.39	mg/Kg	1	✳	6010B	Total/NA
Barium	31		1.1	0.13	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.099	J B	0.23	0.041	mg/Kg	1	✳	6010B	Total/NA
Chromium	13		0.98	0.48	mg/Kg	1	✳	6010B	Total/NA
Lead	8.5		0.57	0.26	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.0093	J	0.018	0.0060	mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: B-6, 1-2.5'

Lab Sample ID: 500-214086-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.011	J	0.038	0.0068	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.0052	J	0.038	0.0050	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.043		0.038	0.0064	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.14		0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.19		0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.22		0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.12		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.15		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.018	J	0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.35		0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.016	J	0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.066		0.038	0.0099	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.17		0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.33		0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Arsenic	5.3		1.1	0.38	mg/Kg	1	✳	6010B	Total/NA
Barium	78		1.1	0.13	mg/Kg	1	✳	6010B	Total/NA
Chromium	20		1.0	0.51	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-6, 1-2.5' (Continued)

Lab Sample ID: 500-214086-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Silver	0.29	J	0.55	0.14	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.030		0.018	0.0060	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: B-6, 6-7.5'

Lab Sample ID: 500-214086-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.028	J	0.038	0.0068	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.15		0.038	0.0063	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.34		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.34		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.46		0.038	0.0082	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.097		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.26		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.36		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.042		0.038	0.0073	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.90		0.038	0.0070	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.052		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0098	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.38		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.83		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.2		1.1	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	97		1.1	0.13	mg/Kg	1	☼	6010B	Total/NA
Chromium	23	B	1.1	0.56	mg/Kg	1	☼	6010B	Total/NA
Lead	8.5		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Silver	0.27	J	0.56	0.15	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.020		0.018	0.0061	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: B-1, 1-2.5'

Lab Sample ID: 500-214086-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.13		0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.028	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.49		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.97		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.92		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1.3		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.24		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.53		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.0		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.14		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	2.1		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.19		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.30		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
1-Methylnaphthalene	0.016	J	0.078	0.0094	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.012	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.5		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	2.0		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.4		1.2	0.41	mg/Kg	1	☼	6010B	Total/NA
Barium	63		1.2	0.14	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.056	J B	0.24	0.043	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-1, 1-2.5' (Continued)

Lab Sample ID: 500-214086-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	23	B	1.2	0.59	mg/Kg	1	☼	6010B	Total/NA
Lead	21		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	0.26	J	0.60	0.15	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.059		0.018	0.0059	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: B-1, 3.5-5'

Lab Sample ID: 500-214086-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.036	J	0.039	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.0		1.1	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	62		1.1	0.13	mg/Kg	1	☼	6010B	Total/NA
Chromium	23	B	1.1	0.55	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Silver	0.21	J	0.56	0.14	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.018		0.018	0.0059	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: B-1, 6-7.5'

Lab Sample ID: 500-214086-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	0.086		0.019	0.0072	mg/Kg	1	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	0.086		0.019	0.0052	mg/Kg	1	☼	8082A	Total/NA

Client Sample ID: B-6, 10.5-15.5'

Lab Sample ID: 500-214086-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.32	J	0.50	0.050	mg/L	1		6010B	TCLP
pH	7.7	HF	0.2	0.2	SU	1		9045D	Total/NA
Paint Filter	Pass				No Unit	1		9095B	Total/NA
Specific Gravity	2.1136				NONE	1		SM 2710F	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7471A	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
9095B	Paint Filter	SW846	TAL CHI
9251	Chlorine, Total	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL CHI
SM 2710F	Specific Gravity, Density	SM	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1311	TCLP Zero Headspace Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
5050	Bomb Preparation Method for Solid Waste	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL CHI
7471A	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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

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

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-214086-1	B-11, 1-2.5'	Solid	03/22/22 09:20	03/24/22 09:55
500-214086-2	B-11, 6-7.5'	Solid	03/22/22 09:25	03/24/22 09:55
500-214086-3	B-11, 11-12.5'	Solid	03/22/22 10:20	03/24/22 09:55
500-214086-4	B-11, 16-17.5'	Solid	03/22/22 10:40	03/24/22 09:55
500-214086-5	B-6, 1-2.5'	Solid	03/22/22 12:15	03/24/22 09:55
500-214086-6	B-6, 6-7.5'	Solid	03/22/22 12:30	03/24/22 09:55
500-214086-7	B-1, 1-2.5'	Solid	03/22/22 13:50	03/24/22 09:55
500-214086-8	B-1, 3.5-5'	Solid	03/22/22 14:00	03/24/22 09:55
500-214086-9	B-1, 6-7.5'	Solid	03/22/22 14:15	03/24/22 09:55
500-214086-10	B-6, 10.5-15.5'	Solid	03/22/22 12:50	03/24/22 09:55

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 1-2.5'

Lab Sample ID: 500-214086-1

Date Collected: 03/22/22 09:20

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.018	0.010	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Bromobenzene	<0.026		0.072	0.026	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Bromochloromethane	<0.031		0.072	0.031	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Bromodichloromethane	<0.027		0.072	0.027	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Bromoform	<0.035		0.072	0.035	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Bromomethane	<0.057		0.22	0.057	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Carbon tetrachloride	<0.028		0.072	0.028	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Chlorobenzene	<0.028		0.072	0.028	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Chloroethane	<0.036		0.072	0.036	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Chloroform	<0.027		0.14	0.027	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Chloromethane	<0.023		0.072	0.023	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
2-Chlorotoluene	<0.023		0.072	0.023	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
4-Chlorotoluene	<0.025		0.072	0.025	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
cis-1,2-Dichloroethene	<0.029		0.072	0.029	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
cis-1,3-Dichloropropene	<0.030		0.072	0.030	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Dibromochloromethane	<0.035		0.072	0.035	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,2-Dibromo-3-Chloropropane	<0.14		0.36	0.14	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,2-Dibromoethane	<0.028		0.072	0.028	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Dibromomethane	<0.019		0.072	0.019	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,2-Dichlorobenzene	<0.024		0.072	0.024	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,3-Dichlorobenzene	<0.029		0.072	0.029	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,4-Dichlorobenzene	<0.026		0.072	0.026	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Dichlorodifluoromethane	<0.048		0.22	0.048	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,1-Dichloroethane	<0.029		0.072	0.029	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,2-Dichloroethane	<0.028		0.072	0.028	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,1-Dichloroethene	<0.028		0.072	0.028	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,2-Dichloropropane	<0.031		0.072	0.031	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,3-Dichloropropane	<0.026		0.072	0.026	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
2,2-Dichloropropane	<0.032		0.072	0.032	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,1-Dichloropropene	<0.021		0.072	0.021	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Ethylbenzene	<0.013		0.018	0.013	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Hexachlorobutadiene	<0.032		0.072	0.032	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Isopropylbenzene	<0.028		0.072	0.028	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Isopropyl ether	<0.020		0.072	0.020	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Methylene Chloride	<0.12		0.36	0.12	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Methyl tert-butyl ether	<0.028		0.072	0.028	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Naphthalene	0.027	J	0.072	0.024	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
n-Butylbenzene	<0.028		0.072	0.028	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
N-Propylbenzene	<0.030		0.072	0.030	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
p-Isopropyltoluene	<0.026		0.072	0.026	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
sec-Butylbenzene	<0.029		0.072	0.029	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Styrene	<0.028		0.072	0.028	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
tert-Butylbenzene	<0.029		0.072	0.029	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,1,1,2-Tetrachloroethane	<0.033		0.072	0.033	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,1,2,2-Tetrachloroethane	<0.029		0.072	0.029	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Tetrachloroethene	<0.027		0.072	0.027	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Toluene	<0.011		0.018	0.011	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
trans-1,2-Dichloroethene	<0.025		0.072	0.025	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
trans-1,3-Dichloropropene	<0.026		0.072	0.026	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 1-2.5'

Lab Sample ID: 500-214086-1

Date Collected: 03/22/22 09:20

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.033		0.072	0.033	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,2,4-Trichlorobenzene	<0.025		0.072	0.025	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,1,1-Trichloroethane	<0.027		0.072	0.027	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,1,2-Trichloroethane	<0.025		0.072	0.025	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Trichloroethene	<0.012		0.036	0.012	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Trichlorofluoromethane	<0.031		0.072	0.031	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,2,3-Trichloropropane	<0.030		0.14	0.030	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,2,4-Trimethylbenzene	<0.026		0.072	0.026	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
1,3,5-Trimethylbenzene	<0.027		0.072	0.027	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Vinyl chloride	<0.019		0.072	0.019	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50
Xylenes, Total	0.042		0.036	0.016	mg/Kg	✳	03/22/22 09:20	03/28/22 13:00	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124	03/22/22 09:20	03/28/22 13:00	50
Dibromofluoromethane (Surr)	93		75 - 120	03/22/22 09:20	03/28/22 13:00	50
1,2-Dichloroethane-d4 (Surr)	96		75 - 126	03/22/22 09:20	03/28/22 13:00	50
Toluene-d8 (Surr)	96		75 - 120	03/22/22 09:20	03/28/22 13:00	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.034	J	0.038	0.0070	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Acenaphthylene	0.032	J	0.038	0.0051	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Anthracene	0.23		0.038	0.0065	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Benzo[a]anthracene	1.1		0.038	0.0052	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Benzo[a]pyrene	1.2	*3	0.038	0.0075	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Benzo[b]fluoranthene	1.8	*3	0.038	0.0084	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Benzo[g,h,i]perylene	0.35	*3	0.038	0.012	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Benzo[k]fluoranthene	0.67	*3	0.038	0.011	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Chrysene	1.1		0.038	0.011	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Dibenz(a,h)anthracene	0.16	*3	0.038	0.0075	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Fluoranthene	2.0		0.038	0.0072	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Fluorene	0.043		0.038	0.0054	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Indeno[1,2,3-cd]pyrene	0.41	*3	0.038	0.010	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
1-Methylnaphthalene	0.012	J	0.078	0.0095	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
2-Methylnaphthalene	0.013	J	0.078	0.0071	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Naphthalene	0.018	J	0.038	0.0060	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Phenanthrene	0.65		0.038	0.0054	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1
Pyrene	2.2		0.038	0.0077	mg/Kg	✳	04/05/22 07:03	04/06/22 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		43 - 145	04/05/22 07:03	04/06/22 14:55	1
Nitrobenzene-d5 (Surr)	61		37 - 147	04/05/22 07:03	04/06/22 14:55	1
Terphenyl-d14 (Surr)	101		42 - 157	04/05/22 07:03	04/06/22 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0078		0.020	0.0078	mg/Kg	✳	04/01/22 07:21	04/04/22 16:37	1
PCB-1221	<0.0078		0.020	0.0078	mg/Kg	✳	04/01/22 07:21	04/04/22 16:37	1
PCB-1232	<0.0054		0.020	0.0054	mg/Kg	✳	04/01/22 07:21	04/04/22 16:37	1
PCB-1242	<0.0077		0.020	0.0077	mg/Kg	✳	04/01/22 07:21	04/04/22 16:37	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 1-2.5'

Lab Sample ID: 500-214086-1

Date Collected: 03/22/22 09:20

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 82.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0094		0.020	0.0094	mg/Kg	☼	04/01/22 07:21	04/04/22 16:37	1
PCB-1254	<0.0067		0.020	0.0067	mg/Kg	☼	04/01/22 07:21	04/04/22 16:37	1
PCB-1260	<0.0075		0.020	0.0075	mg/Kg	☼	04/01/22 07:21	04/04/22 16:37	1
Polychlorinated biphenyls, Total	<0.0054		0.020	0.0054	mg/Kg	☼	04/01/22 07:21	04/04/22 16:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	99		49 - 129	04/01/22 07:21	04/04/22 16:37	1
DCB Decachlorobiphenyl	94		37 - 121	04/01/22 07:21	04/04/22 16:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		1.2	0.41	mg/Kg	☼	03/29/22 00:37	03/29/22 18:42	1
Barium	71		1.2	0.14	mg/Kg	☼	03/29/22 00:37	03/29/22 18:42	1
Cadmium	0.22	J B	0.24	0.043	mg/Kg	☼	03/29/22 00:37	03/29/22 18:42	1
Chromium	22		1.1	0.55	mg/Kg	☼	04/01/22 16:42	04/04/22 12:33	1
Lead	50		0.60	0.28	mg/Kg	☼	03/29/22 00:37	03/29/22 18:42	1
Selenium	<0.71		1.2	0.71	mg/Kg	☼	03/29/22 00:37	03/29/22 18:42	1
Silver	0.36	J	0.60	0.16	mg/Kg	☼	03/29/22 00:37	03/29/22 18:42	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.018	0.0060	mg/Kg	☼	04/04/22 14:25	04/05/22 08:53	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 6-7.5'

Lab Sample ID: 500-214086-2

Date Collected: 03/22/22 09:25

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0099		0.017	0.0099	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Bromobenzene	<0.024		0.068	0.024	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Bromochloromethane	<0.029		0.068	0.029	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Bromodichloromethane	<0.025		0.068	0.025	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Bromoform	<0.033		0.068	0.033	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Bromomethane	<0.054		0.20	0.054	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Carbon tetrachloride	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Chlorobenzene	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Chloroethane	<0.034		0.068	0.034	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Chloroform	<0.025		0.14	0.025	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Chloromethane	<0.022		0.068	0.022	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
2-Chlorotoluene	<0.021		0.068	0.021	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
4-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
cis-1,3-Dichloropropene	<0.028		0.068	0.028	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Dibromochloromethane	<0.033		0.068	0.033	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,2-Dibromo-3-Chloropropane	<0.13		0.34	0.13	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,2-Dibromoethane	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Dibromomethane	<0.018		0.068	0.018	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,2-Dichlorobenzene	<0.023		0.068	0.023	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,3-Dichlorobenzene	<0.027		0.068	0.027	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,4-Dichlorobenzene	<0.025		0.068	0.025	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Dichlorodifluoromethane	<0.046		0.20	0.046	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,1-Dichloroethane	<0.028		0.068	0.028	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,2-Dichloroethane	<0.027		0.068	0.027	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,1-Dichloroethene	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,2-Dichloropropane	<0.029		0.068	0.029	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,3-Dichloropropane	<0.024		0.068	0.024	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
2,2-Dichloropropane	<0.030		0.068	0.030	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,1-Dichloropropene	<0.020		0.068	0.020	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Hexachlorobutadiene	<0.030		0.068	0.030	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Isopropylbenzene	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Isopropyl ether	<0.019		0.068	0.019	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Methyl tert-butyl ether	<0.027		0.068	0.027	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Naphthalene	0.067	J	0.068	0.023	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
n-Butylbenzene	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
N-Propylbenzene	<0.028		0.068	0.028	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
p-Isopropyltoluene	<0.024		0.068	0.024	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
sec-Butylbenzene	<0.027		0.068	0.027	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Styrene	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
tert-Butylbenzene	<0.027		0.068	0.027	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,1,1,2-Tetrachloroethane	<0.031		0.068	0.031	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,1,2,2-Tetrachloroethane	<0.027		0.068	0.027	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Tetrachloroethene	<0.025		0.068	0.025	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Toluene	<0.0099		0.017	0.0099	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
trans-1,3-Dichloropropene	<0.024		0.068	0.024	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 6-7.5'

Lab Sample ID: 500-214086-2

Date Collected: 03/22/22 09:25

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Vinyl chloride	<0.018		0.068	0.018	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	✳	03/22/22 09:25	03/28/22 13:24	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				03/22/22 09:25	03/28/22 13:24	50
Dibromofluoromethane (Surr)	94		75 - 120				03/22/22 09:25	03/28/22 13:24	50
1,2-Dichloroethane-d4 (Surr)	98		75 - 126				03/22/22 09:25	03/28/22 13:24	50
Toluene-d8 (Surr)	94		75 - 120				03/22/22 09:25	03/28/22 13:24	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.046		0.039	0.0070	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Acenaphthylene	0.013	J	0.039	0.0051	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Anthracene	0.12		0.039	0.0065	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Benzo[a]anthracene	0.24		0.039	0.0052	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Benzo[a]pyrene	0.25		0.039	0.0075	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Benzo[b]fluoranthene	0.30		0.039	0.0084	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Benzo[g,h,i]perylene	0.069		0.039	0.013	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Benzo[k]fluoranthene	0.17		0.039	0.011	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Chrysene	0.23		0.039	0.011	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Dibenz(a,h)anthracene	0.034	J	0.039	0.0075	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Fluoranthene	0.55		0.039	0.0072	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Fluorene	0.065		0.039	0.0055	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Indeno[1,2,3-cd]pyrene	0.078		0.039	0.010	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
1-Methylnaphthalene	0.018	J	0.079	0.0095	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
2-Methylnaphthalene	0.020	J	0.079	0.0072	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Naphthalene	0.026	J	0.039	0.0060	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Phenanthrene	0.42		0.039	0.0054	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Pyrene	0.51		0.039	0.0077	mg/Kg	✳	04/05/22 07:03	04/06/22 15:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	66		43 - 145				04/05/22 07:03	04/06/22 15:17	1
Nitrobenzene-d5 (Surr)	58		37 - 147				04/05/22 07:03	04/06/22 15:17	1
Terphenyl-d14 (Surr)	107		42 - 157				04/05/22 07:03	04/06/22 15:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0077		0.020	0.0077	mg/Kg	✳	04/01/22 07:21	04/04/22 16:53	1
PCB-1221	<0.0077		0.020	0.0077	mg/Kg	✳	04/01/22 07:21	04/04/22 16:53	1
PCB-1232	<0.0053		0.020	0.0053	mg/Kg	✳	04/01/22 07:21	04/04/22 16:53	1
PCB-1242	<0.0076		0.020	0.0076	mg/Kg	✳	04/01/22 07:21	04/04/22 16:53	1

Eurofins Chicago

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 6-7.5'

Lab Sample ID: 500-214086-2

Date Collected: 03/22/22 09:25

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0093		0.020	0.0093	mg/Kg	✱	04/01/22 07:21	04/04/22 16:53	1
PCB-1254	<0.0066		0.020	0.0066	mg/Kg	✱	04/01/22 07:21	04/04/22 16:53	1
PCB-1260	<0.0074		0.020	0.0074	mg/Kg	✱	04/01/22 07:21	04/04/22 16:53	1
Polychlorinated biphenyls, Total	<0.0053		0.020	0.0053	mg/Kg	✱	04/01/22 07:21	04/04/22 16:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		49 - 129	04/01/22 07:21	04/04/22 16:53	1
DCB Decachlorobiphenyl	88		37 - 121	04/01/22 07:21	04/04/22 16:53	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.7		1.0	0.36	mg/Kg	✱	03/29/22 00:37	03/29/22 18:46	1
Barium	53		1.0	0.12	mg/Kg	✱	03/29/22 00:37	03/29/22 18:46	1
Cadmium	0.057	J B	0.21	0.038	mg/Kg	✱	03/29/22 00:37	03/29/22 18:46	1
Chromium	22	B	1.0	0.52	mg/Kg	✱	03/29/22 00:37	03/30/22 14:07	1
Lead	24		0.52	0.24	mg/Kg	✱	03/29/22 00:37	03/29/22 18:46	1
Selenium	<0.62		1.0	0.62	mg/Kg	✱	03/29/22 00:37	03/29/22 18:46	1
Silver	0.30	J	0.52	0.13	mg/Kg	✱	03/29/22 00:37	03/29/22 18:46	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.019	0.0062	mg/Kg	✱	04/04/22 14:25	04/05/22 08:55	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 11-12.5'

Lab Sample ID: 500-214086-3

Date Collected: 03/22/22 10:20

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0085		0.015	0.0085	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Bromobenzene	<0.021		0.058	0.021	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Bromochloromethane	<0.025		0.058	0.025	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Bromodichloromethane	<0.022		0.058	0.022	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Bromoform	<0.028		0.058	0.028	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Bromomethane	<0.046		0.17	0.046	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Carbon tetrachloride	<0.022		0.058	0.022	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Chlorobenzene	<0.022		0.058	0.022	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Chloroethane	<0.029		0.058	0.029	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Chloroform	<0.022		0.12	0.022	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Chloromethane	<0.019		0.058	0.019	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
2-Chlorotoluene	<0.018		0.058	0.018	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
4-Chlorotoluene	<0.020		0.058	0.020	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
cis-1,2-Dichloroethene	<0.024		0.058	0.024	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
cis-1,3-Dichloropropene	<0.024		0.058	0.024	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Dibromochloromethane	<0.028		0.058	0.028	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,2-Dibromo-3-Chloropropane	<0.12		0.29	0.12	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,2-Dibromoethane	<0.022		0.058	0.022	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Dibromomethane	<0.016		0.058	0.016	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,2-Dichlorobenzene	<0.019		0.058	0.019	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,3-Dichlorobenzene	<0.023		0.058	0.023	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,4-Dichlorobenzene	<0.021		0.058	0.021	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Dichlorodifluoromethane	<0.039		0.17	0.039	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,1-Dichloroethane	<0.024		0.058	0.024	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,2-Dichloroethane	<0.023		0.058	0.023	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,1-Dichloroethene	<0.023		0.058	0.023	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,2-Dichloropropane	<0.025		0.058	0.025	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,3-Dichloropropane	<0.021		0.058	0.021	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
2,2-Dichloropropane	<0.026		0.058	0.026	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,1-Dichloropropene	<0.017		0.058	0.017	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Ethylbenzene	<0.011		0.015	0.011	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Hexachlorobutadiene	<0.026		0.058	0.026	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Isopropylbenzene	<0.022		0.058	0.022	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Isopropyl ether	<0.016		0.058	0.016	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Methylene Chloride	<0.095		0.29	0.095	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Methyl tert-butyl ether	<0.023		0.058	0.023	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Naphthalene	<0.019		0.058	0.019	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
n-Butylbenzene	<0.023		0.058	0.023	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
N-Propylbenzene	<0.024		0.058	0.024	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
p-Isopropyltoluene	<0.021		0.058	0.021	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
sec-Butylbenzene	<0.023		0.058	0.023	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Styrene	<0.022		0.058	0.022	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
tert-Butylbenzene	<0.023		0.058	0.023	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,1,1,2-Tetrachloroethane	<0.027		0.058	0.027	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,1,2,2-Tetrachloroethane	<0.023		0.058	0.023	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Tetrachloroethene	<0.022		0.058	0.022	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Toluene	<0.0086		0.015	0.0086	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
trans-1,2-Dichloroethene	<0.020		0.058	0.020	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
trans-1,3-Dichloropropene	<0.021		0.058	0.021	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 11-12.5'

Lab Sample ID: 500-214086-3

Date Collected: 03/22/22 10:20

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.027		0.058	0.027	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,2,4-Trichlorobenzene	<0.020		0.058	0.020	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,1,1-Trichloroethane	<0.022		0.058	0.022	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,1,2-Trichloroethane	<0.020		0.058	0.020	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Trichloroethene	<0.0095		0.029	0.0095	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Trichlorofluoromethane	<0.025		0.058	0.025	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,2,3-Trichloropropane	<0.024		0.12	0.024	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,2,4-Trimethylbenzene	<0.021		0.058	0.021	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
1,3,5-Trimethylbenzene	<0.022		0.058	0.022	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Vinyl chloride	<0.015		0.058	0.015	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Xylenes, Total	<0.013		0.029	0.013	mg/Kg	✳	03/22/22 10:20	03/28/22 13:48	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124				03/22/22 10:20	03/28/22 13:48	50
Dibromofluoromethane (Surr)	94		75 - 120				03/22/22 10:20	03/28/22 13:48	50
1,2-Dichloroethane-d4 (Surr)	98		75 - 126				03/22/22 10:20	03/28/22 13:48	50
Toluene-d8 (Surr)	95		75 - 120				03/22/22 10:20	03/28/22 13:48	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0063		0.035	0.0063	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Acenaphthylene	<0.0046		0.035	0.0046	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Anthracene	<0.0059		0.035	0.0059	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Benzo[a]anthracene	<0.0047		0.035	0.0047	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Benzo[a]pyrene	<0.0068		0.035	0.0068	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Benzo[b]fluoranthene	<0.0076		0.035	0.0076	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Benzo[g,h,i]perylene	<0.011		0.035	0.011	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Benzo[k]fluoranthene	<0.010		0.035	0.010	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Chrysene	<0.0096		0.035	0.0096	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Dibenz(a,h)anthracene	<0.0068		0.035	0.0068	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Fluoranthene	0.031	J	0.035	0.0065	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Fluorene	<0.0049		0.035	0.0049	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Indeno[1,2,3-cd]pyrene	<0.0091		0.035	0.0091	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
1-Methylnaphthalene	<0.0086		0.071	0.0086	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
2-Methylnaphthalene	<0.0065		0.071	0.0065	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Naphthalene	<0.0054		0.035	0.0054	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Phenanthrene	<0.0049		0.035	0.0049	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Pyrene	<0.0070		0.035	0.0070	mg/Kg	✳	04/05/22 07:03	04/05/22 17:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	88		43 - 145				04/05/22 07:03	04/05/22 17:34	1
Nitrobenzene-d5 (Surr)	69		37 - 147				04/05/22 07:03	04/05/22 17:34	1
Terphenyl-d14 (Surr)	120		42 - 157				04/05/22 07:03	04/05/22 17:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		1.0	0.34	mg/Kg	✳	03/29/22 00:37	03/29/22 18:55	1
Barium	13		1.0	0.11	mg/Kg	✳	03/29/22 00:37	03/29/22 18:55	1
Cadmium	0.12	J B	0.20	0.036	mg/Kg	✳	03/29/22 00:37	03/29/22 18:55	1
Chromium	7.0		0.99	0.49	mg/Kg	✳	04/01/22 16:42	04/04/22 12:37	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 11-12.5'

Lab Sample ID: 500-214086-3

Date Collected: 03/22/22 10:20

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 92.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.9		0.50	0.23	mg/Kg	✱	03/29/22 00:37	03/29/22 18:55	1
Selenium	<0.59		1.0	0.59	mg/Kg	✱	03/29/22 00:37	03/29/22 18:55	1
Silver	<0.13		0.50	0.13	mg/Kg	✱	03/29/22 00:37	03/29/22 18:55	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg	✱	04/04/22 14:25	04/05/22 08:57	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 16-17.5'

Lab Sample ID: 500-214086-4

Date Collected: 03/22/22 10:40

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0095		0.016	0.0095	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Bromobenzene	<0.023		0.065	0.023	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Bromochloromethane	<0.028		0.065	0.028	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Bromodichloromethane	<0.024		0.065	0.024	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Bromoform	<0.031		0.065	0.031	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Bromomethane	<0.052		0.20	0.052	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Carbon tetrachloride	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Chlorobenzene	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Chloroethane	<0.033		0.065	0.033	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Chloroform	<0.024		0.13	0.024	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Chloromethane	<0.021		0.065	0.021	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
2-Chlorotoluene	<0.020		0.065	0.020	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
4-Chlorotoluene	<0.023		0.065	0.023	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
cis-1,2-Dichloroethene	<0.027		0.065	0.027	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
cis-1,3-Dichloropropene	<0.027		0.065	0.027	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Dibromochloromethane	<0.032		0.065	0.032	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,2-Dibromo-3-Chloropropane	<0.13		0.33	0.13	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,2-Dibromoethane	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Dibromomethane	<0.018		0.065	0.018	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,2-Dichlorobenzene	<0.022		0.065	0.022	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,3-Dichlorobenzene	<0.026		0.065	0.026	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,4-Dichlorobenzene	<0.024		0.065	0.024	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Dichlorodifluoromethane	<0.044		0.20	0.044	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,1-Dichloroethane	<0.027		0.065	0.027	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,2-Dichloroethane	<0.026		0.065	0.026	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,1-Dichloroethene	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,2-Dichloropropane	<0.028		0.065	0.028	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,3-Dichloropropane	<0.024		0.065	0.024	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
2,2-Dichloropropane	<0.029		0.065	0.029	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,1-Dichloropropene	<0.019		0.065	0.019	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Ethylbenzene	<0.012		0.016	0.012	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Hexachlorobutadiene	<0.029		0.065	0.029	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Isopropylbenzene	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Isopropyl ether	<0.018		0.065	0.018	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Methylene Chloride	<0.11		0.33	0.11	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Methyl tert-butyl ether	<0.026		0.065	0.026	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Naphthalene	<0.022		0.065	0.022	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
n-Butylbenzene	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
N-Propylbenzene	<0.027		0.065	0.027	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
p-Isopropyltoluene	<0.024		0.065	0.024	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
sec-Butylbenzene	<0.026		0.065	0.026	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Styrene	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
tert-Butylbenzene	<0.026		0.065	0.026	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,1,1,2-Tetrachloroethane	<0.030		0.065	0.030	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,1,2,2-Tetrachloroethane	<0.026		0.065	0.026	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Tetrachloroethene	<0.024		0.065	0.024	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Toluene	<0.0096		0.016	0.0096	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
trans-1,2-Dichloroethene	<0.023		0.065	0.023	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
trans-1,3-Dichloropropene	<0.024		0.065	0.024	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 16-17.5'

Lab Sample ID: 500-214086-4

Date Collected: 03/22/22 10:40

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.030		0.065	0.030	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,2,4-Trichlorobenzene	<0.022		0.065	0.022	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,1,1-Trichloroethane	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,1,2-Trichloroethane	<0.023		0.065	0.023	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Trichloroethene	<0.011		0.033	0.011	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Trichlorofluoromethane	<0.028		0.065	0.028	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,2,3-Trichloropropane	<0.027		0.13	0.027	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,2,4-Trimethylbenzene	<0.023		0.065	0.023	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
1,3,5-Trimethylbenzene	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Vinyl chloride	<0.017		0.065	0.017	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Xylenes, Total	<0.014		0.033	0.014	mg/Kg	✳	03/22/22 10:40	03/28/22 14:12	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		72 - 124				03/22/22 10:40	03/28/22 14:12	50
Dibromofluoromethane (Surr)	93		75 - 120				03/22/22 10:40	03/28/22 14:12	50
1,2-Dichloroethane-d4 (Surr)	97		75 - 126				03/22/22 10:40	03/28/22 14:12	50
Toluene-d8 (Surr)	96		75 - 120				03/22/22 10:40	03/28/22 14:12	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0065		0.036	0.0065	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Anthracene	<0.0061		0.036	0.0061	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Benzo[a]anthracene	0.0071	J	0.036	0.0049	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Benzo[a]pyrene	<0.0070		0.036	0.0070	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Benzo[b]fluoranthene	<0.0079		0.036	0.0079	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Benzo[g,h,i]perylene	<0.012		0.036	0.012	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Benzo[k]fluoranthene	<0.011		0.036	0.011	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Chrysene	<0.0099		0.036	0.0099	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Dibenz(a,h)anthracene	<0.0070		0.036	0.0070	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Fluoranthene	0.032	J	0.036	0.0068	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Indeno[1,2,3-cd]pyrene	<0.0094		0.036	0.0094	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
1-Methylnaphthalene	<0.0089		0.073	0.0089	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
2-Methylnaphthalene	<0.0067		0.073	0.0067	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Phenanthrene	0.0063	J	0.036	0.0051	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Pyrene	0.0078	J	0.036	0.0072	mg/Kg	✳	04/05/22 07:03	04/05/22 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	87		43 - 145				04/05/22 07:03	04/05/22 17:56	1
Nitrobenzene-d5 (Surr)	65		37 - 147				04/05/22 07:03	04/05/22 17:56	1
Terphenyl-d14 (Surr)	108		42 - 157				04/05/22 07:03	04/05/22 17:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		1.1	0.39	mg/Kg	✳	03/29/22 00:37	03/29/22 18:58	1
Barium	31		1.1	0.13	mg/Kg	✳	03/29/22 00:37	03/29/22 18:58	1
Cadmium	0.099	J B	0.23	0.041	mg/Kg	✳	03/29/22 00:37	03/29/22 18:58	1
Chromium	13		0.98	0.48	mg/Kg	✳	04/01/22 16:42	04/04/22 12:40	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 16-17.5'

Lab Sample ID: 500-214086-4

Date Collected: 03/22/22 10:40

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.5		0.57	0.26	mg/Kg	✱	03/29/22 00:37	03/29/22 18:58	1
Selenium	<0.67		1.1	0.67	mg/Kg	✱	03/29/22 00:37	03/29/22 18:58	1
Silver	<0.15		0.57	0.15	mg/Kg	✱	03/29/22 00:37	03/29/22 18:58	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0093	J	0.018	0.0060	mg/Kg	✱	04/04/22 14:25	04/05/22 09:02	1



Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-6, 1-2.5'

Lab Sample ID: 500-214086-5

Date Collected: 03/22/22 12:15

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0096		0.017	0.0096	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Bromobenzene	<0.024		0.066	0.024	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Bromochloromethane	<0.028		0.066	0.028	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Bromodichloromethane	<0.025		0.066	0.025	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Bromoform	<0.032		0.066	0.032	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Bromomethane	<0.053		0.20	0.053	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Carbon tetrachloride	<0.025		0.066	0.025	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Chlorobenzene	<0.026		0.066	0.026	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Chloroethane	<0.033		0.066	0.033	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Chloroform	<0.024		0.13	0.024	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Chloromethane	<0.021		0.066	0.021	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
2-Chlorotoluene	<0.021		0.066	0.021	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
4-Chlorotoluene	<0.023		0.066	0.023	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
cis-1,2-Dichloroethene	<0.027		0.066	0.027	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
cis-1,3-Dichloropropene	<0.027		0.066	0.027	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Dibromochloromethane	<0.032		0.066	0.032	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,2-Dibromo-3-Chloropropane	<0.13		0.33	0.13	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,2-Dibromoethane	<0.026		0.066	0.026	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Dibromomethane	<0.018		0.066	0.018	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,2-Dichlorobenzene	<0.022		0.066	0.022	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,3-Dichlorobenzene	<0.026		0.066	0.026	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,4-Dichlorobenzene	<0.024		0.066	0.024	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Dichlorodifluoromethane	<0.045		0.20	0.045	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,1-Dichloroethane	<0.027		0.066	0.027	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,2-Dichloroethane	<0.026		0.066	0.026	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,1-Dichloroethene	<0.026		0.066	0.026	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,2-Dichloropropane	<0.028		0.066	0.028	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,3-Dichloropropane	<0.024		0.066	0.024	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
2,2-Dichloropropane	<0.029		0.066	0.029	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,1-Dichloropropene	<0.020		0.066	0.020	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Hexachlorobutadiene	<0.029		0.066	0.029	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Isopropylbenzene	<0.025		0.066	0.025	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Isopropyl ether	<0.018		0.066	0.018	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Methylene Chloride	<0.11		0.33	0.11	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Methyl tert-butyl ether	<0.026		0.066	0.026	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Naphthalene	<0.022		0.066	0.022	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
n-Butylbenzene	<0.026		0.066	0.026	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
N-Propylbenzene	<0.027		0.066	0.027	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
p-Isopropyltoluene	<0.024		0.066	0.024	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
sec-Butylbenzene	<0.026		0.066	0.026	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Styrene	<0.026		0.066	0.026	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
tert-Butylbenzene	<0.026		0.066	0.026	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,1,1,2-Tetrachloroethane	<0.031		0.066	0.031	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
1,1,2,2-Tetrachloroethane	<0.026		0.066	0.026	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Tetrachloroethene	<0.024		0.066	0.024	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
Toluene	<0.0097		0.017	0.0097	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
trans-1,2-Dichloroethene	<0.023		0.066	0.023	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50
trans-1,3-Dichloropropene	<0.024		0.066	0.024	mg/Kg	✱	03/22/22 12:15	03/28/22 14:37	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-6, 1-2.5'

Lab Sample ID: 500-214086-5

Date Collected: 03/22/22 12:15

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.030		0.066	0.030	mg/Kg	✳	03/22/22 12:15	03/28/22 14:37	50
1,2,4-Trichlorobenzene	<0.023		0.066	0.023	mg/Kg	✳	03/22/22 12:15	03/28/22 14:37	50
1,1,1-Trichloroethane	<0.025		0.066	0.025	mg/Kg	✳	03/22/22 12:15	03/28/22 14:37	50
1,1,2-Trichloroethane	<0.023		0.066	0.023	mg/Kg	✳	03/22/22 12:15	03/28/22 14:37	50
Trichloroethene	<0.011		0.033	0.011	mg/Kg	✳	03/22/22 12:15	03/28/22 14:37	50
Trichlorofluoromethane	<0.028		0.066	0.028	mg/Kg	✳	03/22/22 12:15	03/28/22 14:37	50
1,2,3-Trichloropropane	<0.027		0.13	0.027	mg/Kg	✳	03/22/22 12:15	03/28/22 14:37	50
1,2,4-Trimethylbenzene	<0.024		0.066	0.024	mg/Kg	✳	03/22/22 12:15	03/28/22 14:37	50
1,3,5-Trimethylbenzene	<0.025		0.066	0.025	mg/Kg	✳	03/22/22 12:15	03/28/22 14:37	50
Vinyl chloride	<0.017		0.066	0.017	mg/Kg	✳	03/22/22 12:15	03/28/22 14:37	50
Xylenes, Total	<0.015		0.033	0.015	mg/Kg	✳	03/22/22 12:15	03/28/22 14:37	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124				03/22/22 12:15	03/28/22 14:37	50
Dibromofluoromethane (Surr)	93		75 - 120				03/22/22 12:15	03/28/22 14:37	50
1,2-Dichloroethane-d4 (Surr)	99		75 - 126				03/22/22 12:15	03/28/22 14:37	50
Toluene-d8 (Surr)	95		75 - 120				03/22/22 12:15	03/28/22 14:37	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.011	J	0.038	0.0068	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Acenaphthylene	0.0052	J	0.038	0.0050	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Anthracene	0.043		0.038	0.0064	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Benzo[a]anthracene	0.14		0.038	0.0051	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Benzo[a]pyrene	0.19		0.038	0.0074	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Benzo[b]fluoranthene	0.22		0.038	0.0082	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Benzo[g,h,i]perylene	0.058		0.038	0.012	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Benzo[k]fluoranthene	0.12		0.038	0.011	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Chrysene	0.15		0.038	0.010	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Dibenz(a,h)anthracene	0.018	J	0.038	0.0074	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Fluoranthene	0.35		0.038	0.0071	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Fluorene	0.016	J	0.038	0.0054	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Indeno[1,2,3-cd]pyrene	0.066		0.038	0.0099	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
1-Methylnaphthalene	<0.0093		0.077	0.0093	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Phenanthrene	0.17		0.038	0.0053	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Pyrene	0.33		0.038	0.0076	mg/Kg	✳	04/05/22 07:03	04/06/22 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	65		43 - 145				04/05/22 07:03	04/06/22 15:40	1
Nitrobenzene-d5 (Surr)	59		37 - 147				04/05/22 07:03	04/06/22 15:40	1
Terphenyl-d14 (Surr)	108		42 - 157				04/05/22 07:03	04/06/22 15:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0074		0.019	0.0074	mg/Kg	✳	04/01/22 07:21	04/04/22 17:09	1
PCB-1221	<0.0074		0.019	0.0074	mg/Kg	✳	04/01/22 07:21	04/04/22 17:09	1
PCB-1232	<0.0051		0.019	0.0051	mg/Kg	✳	04/01/22 07:21	04/04/22 17:09	1
PCB-1242	<0.0073		0.019	0.0073	mg/Kg	✳	04/01/22 07:21	04/04/22 17:09	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-6, 1-2.5'

Lab Sample ID: 500-214086-5

Date Collected: 03/22/22 12:15

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0089		0.019	0.0089	mg/Kg	✳	04/01/22 07:21	04/04/22 17:09	1
PCB-1254	<0.0064		0.019	0.0064	mg/Kg	✳	04/01/22 07:21	04/04/22 17:09	1
PCB-1260	<0.0071		0.019	0.0071	mg/Kg	✳	04/01/22 07:21	04/04/22 17:09	1
Polychlorinated biphenyls, Total	<0.0051		0.019	0.0051	mg/Kg	✳	04/01/22 07:21	04/04/22 17:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		49 - 129				04/01/22 07:21	04/04/22 17:09	1
DCB Decachlorobiphenyl	85		37 - 121				04/01/22 07:21	04/04/22 17:09	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3		1.1	0.38	mg/Kg	✳	03/29/22 00:37	03/29/22 19:02	1
Barium	78		1.1	0.13	mg/Kg	✳	03/29/22 00:37	03/29/22 19:02	1
Cadmium	<0.040		0.22	0.040	mg/Kg	✳	03/29/22 00:37	03/29/22 19:02	1
Chromium	20		1.0	0.51	mg/Kg	✳	04/01/22 16:42	04/04/22 12:50	1
Lead	18		0.55	0.26	mg/Kg	✳	03/29/22 00:37	03/29/22 19:02	1
Selenium	<0.65		1.1	0.65	mg/Kg	✳	03/29/22 00:37	03/29/22 19:02	1
Silver	0.29	J	0.55	0.14	mg/Kg	✳	03/29/22 00:37	03/29/22 19:02	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0060	mg/Kg	✳	04/04/22 14:25	04/05/22 09:04	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-6, 6-7.5'

Lab Sample ID: 500-214086-6

Date Collected: 03/22/22 12:30

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.018	0.010	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Bromobenzene	<0.025		0.070	0.025	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Bromochloromethane	<0.030		0.070	0.030	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Bromodichloromethane	<0.026		0.070	0.026	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Bromoform	<0.034		0.070	0.034	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Bromomethane	<0.056		0.21	0.056	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Carbon tetrachloride	<0.027		0.070	0.027	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Chlorobenzene	<0.027		0.070	0.027	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Chloroethane	<0.035		0.070	0.035	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Chloroform	<0.026		0.14	0.026	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Chloromethane	<0.022		0.070	0.022	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
2-Chlorotoluene	<0.022		0.070	0.022	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
4-Chlorotoluene	<0.025		0.070	0.025	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
cis-1,2-Dichloroethene	<0.029		0.070	0.029	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
cis-1,3-Dichloropropene	<0.029		0.070	0.029	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Dibromochloromethane	<0.034		0.070	0.034	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,2-Dibromo-3-Chloropropane	<0.14		0.35	0.14	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,2-Dibromoethane	<0.027		0.070	0.027	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Dibromomethane	<0.019		0.070	0.019	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,2-Dichlorobenzene	<0.023		0.070	0.023	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,3-Dichlorobenzene	<0.028		0.070	0.028	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,4-Dichlorobenzene	<0.026		0.070	0.026	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Dichlorodifluoromethane	<0.047		0.21	0.047	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,1-Dichloroethane	<0.029		0.070	0.029	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,2-Dichloroethane	<0.028		0.070	0.028	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,1-Dichloroethene	<0.027		0.070	0.027	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,2-Dichloropropane	<0.030		0.070	0.030	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,3-Dichloropropane	<0.025		0.070	0.025	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
2,2-Dichloropropane	<0.031		0.070	0.031	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,1-Dichloropropene	<0.021		0.070	0.021	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Ethylbenzene	<0.013		0.018	0.013	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Hexachlorobutadiene	<0.031		0.070	0.031	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Isopropylbenzene	<0.027		0.070	0.027	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Isopropyl ether	<0.019		0.070	0.019	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Methylene Chloride	<0.11		0.35	0.11	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Methyl tert-butyl ether	<0.028		0.070	0.028	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Naphthalene	<0.023		0.070	0.023	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
n-Butylbenzene	<0.027		0.070	0.027	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
N-Propylbenzene	<0.029		0.070	0.029	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
p-Isopropyltoluene	<0.025		0.070	0.025	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
sec-Butylbenzene	<0.028		0.070	0.028	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Styrene	<0.027		0.070	0.027	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
tert-Butylbenzene	<0.028		0.070	0.028	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,1,1,2-Tetrachloroethane	<0.032		0.070	0.032	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
1,1,2,2-Tetrachloroethane	<0.028		0.070	0.028	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Tetrachloroethene	<0.026		0.070	0.026	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
Toluene	<0.010		0.018	0.010	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
trans-1,2-Dichloroethene	<0.025		0.070	0.025	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50
trans-1,3-Dichloropropene	<0.025		0.070	0.025	mg/Kg	✳	03/22/22 12:30	03/28/22 15:01	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-6, 6-7.5'

Lab Sample ID: 500-214086-6

Date Collected: 03/22/22 12:30

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.032		0.070	0.032	mg/Kg	✱	03/22/22 12:30	03/28/22 15:01	50
1,2,4-Trichlorobenzene	<0.024		0.070	0.024	mg/Kg	✱	03/22/22 12:30	03/28/22 15:01	50
1,1,1-Trichloroethane	<0.027		0.070	0.027	mg/Kg	✱	03/22/22 12:30	03/28/22 15:01	50
1,1,2-Trichloroethane	<0.025		0.070	0.025	mg/Kg	✱	03/22/22 12:30	03/28/22 15:01	50
Trichloroethene	<0.012		0.035	0.012	mg/Kg	✱	03/22/22 12:30	03/28/22 15:01	50
Trichlorofluoromethane	<0.030		0.070	0.030	mg/Kg	✱	03/22/22 12:30	03/28/22 15:01	50
1,2,3-Trichloropropane	<0.029		0.14	0.029	mg/Kg	✱	03/22/22 12:30	03/28/22 15:01	50
1,2,4-Trimethylbenzene	<0.025		0.070	0.025	mg/Kg	✱	03/22/22 12:30	03/28/22 15:01	50
1,3,5-Trimethylbenzene	<0.027		0.070	0.027	mg/Kg	✱	03/22/22 12:30	03/28/22 15:01	50
Vinyl chloride	<0.018		0.070	0.018	mg/Kg	✱	03/22/22 12:30	03/28/22 15:01	50
Xylenes, Total	<0.015		0.035	0.015	mg/Kg	✱	03/22/22 12:30	03/28/22 15:01	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124				03/22/22 12:30	03/28/22 15:01	50
Dibromofluoromethane (Surr)	93		75 - 120				03/22/22 12:30	03/28/22 15:01	50
1,2-Dichloroethane-d4 (Surr)	98		75 - 126				03/22/22 12:30	03/28/22 15:01	50
Toluene-d8 (Surr)	96		75 - 120				03/22/22 12:30	03/28/22 15:01	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.028	J	0.038	0.0068	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Anthracene	0.15		0.038	0.0063	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Benzo[a]anthracene	0.34		0.038	0.0051	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Benzo[a]pyrene	0.34		0.038	0.0073	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Benzo[b]fluoranthene	0.46		0.038	0.0082	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Benzo[g,h,i]perylene	0.097		0.038	0.012	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Benzo[k]fluoranthene	0.26		0.038	0.011	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Chrysene	0.36		0.038	0.010	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Dibenz(a,h)anthracene	0.042		0.038	0.0073	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Fluoranthene	0.90		0.038	0.0070	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Fluorene	0.052		0.038	0.0053	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Indeno[1,2,3-cd]pyrene	0.12		0.038	0.0098	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
1-Methylnaphthalene	<0.0093		0.077	0.0093	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Naphthalene	<0.0058		0.038	0.0058	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Phenanthrene	0.38		0.038	0.0053	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Pyrene	0.83		0.038	0.0075	mg/Kg	✱	04/05/22 07:03	04/06/22 16:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	62		43 - 145				04/05/22 07:03	04/06/22 16:25	1
Nitrobenzene-d5 (Surr)	55		37 - 147				04/05/22 07:03	04/06/22 16:25	1
Terphenyl-d14 (Surr)	99		42 - 157				04/05/22 07:03	04/06/22 16:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0077		0.020	0.0077	mg/Kg	✱	04/01/22 07:21	04/04/22 17:25	1
PCB-1221	<0.0077		0.020	0.0077	mg/Kg	✱	04/01/22 07:21	04/04/22 17:25	1
PCB-1232	<0.0053		0.020	0.0053	mg/Kg	✱	04/01/22 07:21	04/04/22 17:25	1
PCB-1242	<0.0076		0.020	0.0076	mg/Kg	✱	04/01/22 07:21	04/04/22 17:25	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-6, 6-7.5'

Lab Sample ID: 500-214086-6

Date Collected: 03/22/22 12:30

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 83.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0093		0.020	0.0093	mg/Kg	☼	04/01/22 07:21	04/04/22 17:25	1
PCB-1254	<0.0067		0.020	0.0067	mg/Kg	☼	04/01/22 07:21	04/04/22 17:25	1
PCB-1260	<0.0074		0.020	0.0074	mg/Kg	☼	04/01/22 07:21	04/04/22 17:25	1
Polychlorinated biphenyls, Total	<0.0053		0.020	0.0053	mg/Kg	☼	04/01/22 07:21	04/04/22 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	76		49 - 129				04/01/22 07:21	04/04/22 17:25	1
DCB Decachlorobiphenyl	89		37 - 121				04/01/22 07:21	04/04/22 17:25	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		1.1	0.39	mg/Kg	☼	03/29/22 00:37	03/29/22 19:05	1
Barium	97		1.1	0.13	mg/Kg	☼	03/29/22 00:37	03/29/22 19:05	1
Cadmium	<0.041		0.23	0.041	mg/Kg	☼	03/29/22 00:37	03/29/22 19:05	1
Chromium	23	B	1.1	0.56	mg/Kg	☼	03/29/22 00:37	03/30/22 14:26	1
Lead	8.5		0.56	0.26	mg/Kg	☼	03/29/22 00:37	03/29/22 19:05	1
Selenium	<0.66		1.1	0.66	mg/Kg	☼	03/29/22 00:37	03/29/22 19:05	1
Silver	0.27	J	0.56	0.15	mg/Kg	☼	03/29/22 00:37	03/29/22 19:05	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.018	0.0061	mg/Kg	☼	04/04/22 14:25	04/05/22 09:06	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-1, 1-2.5'

Lab Sample ID: 500-214086-7

Date Collected: 03/22/22 13:50

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0095		0.016	0.0095	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Bromobenzene	<0.023		0.065	0.023	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Bromochloromethane	<0.028		0.065	0.028	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Bromodichloromethane	<0.024		0.065	0.024	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Bromoform	<0.031		0.065	0.031	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Bromomethane	<0.052		0.19	0.052	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Carbon tetrachloride	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Chlorobenzene	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Chloroethane	<0.033		0.065	0.033	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Chloroform	<0.024		0.13	0.024	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Chloromethane	<0.021		0.065	0.021	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
2-Chlorotoluene	<0.020		0.065	0.020	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
4-Chlorotoluene	<0.023		0.065	0.023	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
cis-1,2-Dichloroethene	<0.027		0.065	0.027	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
cis-1,3-Dichloropropene	<0.027		0.065	0.027	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Dibromochloromethane	<0.032		0.065	0.032	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,2-Dibromo-3-Chloropropane	<0.13		0.32	0.13	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,2-Dibromoethane	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Dibromomethane	<0.018		0.065	0.018	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,2-Dichlorobenzene	<0.022		0.065	0.022	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,3-Dichlorobenzene	<0.026		0.065	0.026	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,4-Dichlorobenzene	<0.024		0.065	0.024	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Dichlorodifluoromethane	<0.044		0.19	0.044	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,1-Dichloroethane	<0.027		0.065	0.027	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,2-Dichloroethane	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,1-Dichloroethene	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,2-Dichloropropane	<0.028		0.065	0.028	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,3-Dichloropropane	<0.024		0.065	0.024	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
2,2-Dichloropropane	<0.029		0.065	0.029	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,1-Dichloropropene	<0.019		0.065	0.019	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Ethylbenzene	<0.012		0.016	0.012	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Hexachlorobutadiene	<0.029		0.065	0.029	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Isopropylbenzene	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Isopropyl ether	<0.018		0.065	0.018	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Methylene Chloride	<0.11		0.32	0.11	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Methyl tert-butyl ether	<0.026		0.065	0.026	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Naphthalene	<0.022		0.065	0.022	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
n-Butylbenzene	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
N-Propylbenzene	<0.027		0.065	0.027	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
p-Isopropyltoluene	<0.024		0.065	0.024	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
sec-Butylbenzene	<0.026		0.065	0.026	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Styrene	<0.025		0.065	0.025	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
tert-Butylbenzene	<0.026		0.065	0.026	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,1,1,2-Tetrachloroethane	<0.030		0.065	0.030	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
1,1,2,2-Tetrachloroethane	<0.026		0.065	0.026	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Tetrachloroethene	<0.024		0.065	0.024	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
Toluene	<0.0096		0.016	0.0096	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
trans-1,2-Dichloroethene	<0.023		0.065	0.023	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50
trans-1,3-Dichloropropene	<0.024		0.065	0.024	mg/Kg	✳	03/22/22 13:50	03/28/22 15:25	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-1, 1-2.5'

Lab Sample ID: 500-214086-7

Date Collected: 03/22/22 13:50

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.030		0.065	0.030	mg/Kg	✱	03/22/22 13:50	03/28/22 15:25	50
1,2,4-Trichlorobenzene	<0.022		0.065	0.022	mg/Kg	✱	03/22/22 13:50	03/28/22 15:25	50
1,1,1-Trichloroethane	<0.025		0.065	0.025	mg/Kg	✱	03/22/22 13:50	03/28/22 15:25	50
1,1,2-Trichloroethane	<0.023		0.065	0.023	mg/Kg	✱	03/22/22 13:50	03/28/22 15:25	50
Trichloroethene	<0.011		0.032	0.011	mg/Kg	✱	03/22/22 13:50	03/28/22 15:25	50
Trichlorofluoromethane	<0.028		0.065	0.028	mg/Kg	✱	03/22/22 13:50	03/28/22 15:25	50
1,2,3-Trichloropropane	<0.027		0.13	0.027	mg/Kg	✱	03/22/22 13:50	03/28/22 15:25	50
1,2,4-Trimethylbenzene	<0.023		0.065	0.023	mg/Kg	✱	03/22/22 13:50	03/28/22 15:25	50
1,3,5-Trimethylbenzene	<0.025		0.065	0.025	mg/Kg	✱	03/22/22 13:50	03/28/22 15:25	50
Vinyl chloride	<0.017		0.065	0.017	mg/Kg	✱	03/22/22 13:50	03/28/22 15:25	50
Xylenes, Total	<0.014		0.032	0.014	mg/Kg	✱	03/22/22 13:50	03/28/22 15:25	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124	03/22/22 13:50	03/28/22 15:25	50
Dibromofluoromethane (Surr)	93		75 - 120	03/22/22 13:50	03/28/22 15:25	50
1,2-Dichloroethane-d4 (Surr)	97		75 - 126	03/22/22 13:50	03/28/22 15:25	50
Toluene-d8 (Surr)	96		75 - 120	03/22/22 13:50	03/28/22 15:25	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.13		0.038	0.0069	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Acenaphthylene	0.028	J	0.038	0.0051	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Anthracene	0.49		0.038	0.0064	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Benzo[a]anthracene	0.97		0.038	0.0052	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Benzo[a]pyrene	0.92		0.038	0.0074	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Benzo[b]fluoranthene	1.3		0.038	0.0083	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Benzo[g,h,i]perylene	0.24		0.038	0.012	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Benzo[k]fluoranthene	0.53		0.038	0.011	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Chrysene	1.0		0.038	0.010	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Dibenz(a,h)anthracene	0.14		0.038	0.0074	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Fluoranthene	2.1		0.038	0.0071	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Fluorene	0.19		0.038	0.0054	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Indeno[1,2,3-cd]pyrene	0.30		0.038	0.010	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
1-Methylnaphthalene	0.016	J	0.078	0.0094	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
2-Methylnaphthalene	0.012	J	0.078	0.0071	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Phenanthrene	1.5		0.038	0.0054	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1
Pyrene	2.0		0.038	0.0076	mg/Kg	✱	04/05/22 07:03	04/06/22 16:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	67		43 - 145	04/05/22 07:03	04/06/22 16:48	1
Nitrobenzene-d5 (Surr)	57		37 - 147	04/05/22 07:03	04/06/22 16:48	1
Terphenyl-d14 (Surr)	102		42 - 157	04/05/22 07:03	04/06/22 16:48	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0076		0.019	0.0076	mg/Kg	✱	04/01/22 07:21	04/04/22 17:40	1
PCB-1221	<0.0076		0.019	0.0076	mg/Kg	✱	04/01/22 07:21	04/04/22 17:40	1
PCB-1232	<0.0053		0.019	0.0053	mg/Kg	✱	04/01/22 07:21	04/04/22 17:40	1
PCB-1242	<0.0075		0.019	0.0075	mg/Kg	✱	04/01/22 07:21	04/04/22 17:40	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-1, 1-2.5'

Lab Sample ID: 500-214086-7

Date Collected: 03/22/22 13:50

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0092		0.019	0.0092	mg/Kg	✳	04/01/22 07:21	04/04/22 17:40	1
PCB-1254	<0.0066		0.019	0.0066	mg/Kg	✳	04/01/22 07:21	04/04/22 17:40	1
PCB-1260	<0.0073		0.019	0.0073	mg/Kg	✳	04/01/22 07:21	04/04/22 17:40	1
Polychlorinated biphenyls, Total	<0.0053		0.019	0.0053	mg/Kg	✳	04/01/22 07:21	04/04/22 17:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		49 - 129				04/01/22 07:21	04/04/22 17:40	1
DCB Decachlorobiphenyl	82		37 - 121				04/01/22 07:21	04/04/22 17:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		1.2	0.41	mg/Kg	✳	03/29/22 00:37	03/29/22 19:08	1
Barium	63		1.2	0.14	mg/Kg	✳	03/29/22 00:37	03/29/22 19:08	1
Cadmium	0.056	J B	0.24	0.043	mg/Kg	✳	03/29/22 00:37	03/29/22 19:08	1
Chromium	23	B	1.2	0.59	mg/Kg	✳	03/29/22 00:37	03/30/22 14:29	1
Lead	21		0.60	0.28	mg/Kg	✳	03/29/22 00:37	03/29/22 19:08	1
Selenium	<0.70		1.2	0.70	mg/Kg	✳	03/29/22 00:37	03/29/22 19:08	1
Silver	0.26	J	0.60	0.15	mg/Kg	✳	03/29/22 00:37	03/29/22 19:08	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.059		0.018	0.0059	mg/Kg	✳	04/04/22 14:25	04/05/22 09:08	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-1, 3.5-5'

Lab Sample ID: 500-214086-8

Date Collected: 03/22/22 14:00

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0099		0.017	0.0099	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Bromobenzene	<0.024		0.068	0.024	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Bromochloromethane	<0.029		0.068	0.029	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Bromodichloromethane	<0.025		0.068	0.025	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Bromoform	<0.033		0.068	0.033	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Bromomethane	<0.054		0.20	0.054	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Carbon tetrachloride	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Chlorobenzene	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Chloroethane	<0.034		0.068	0.034	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Chloroform	<0.025		0.14	0.025	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Chloromethane	<0.022		0.068	0.022	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
2-Chlorotoluene	<0.021		0.068	0.021	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
4-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
cis-1,3-Dichloropropene	<0.028		0.068	0.028	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Dibromochloromethane	<0.033		0.068	0.033	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,2-Dibromo-3-Chloropropane	<0.13		0.34	0.13	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,2-Dibromoethane	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Dibromomethane	<0.018		0.068	0.018	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,2-Dichlorobenzene	<0.023		0.068	0.023	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,3-Dichlorobenzene	<0.027		0.068	0.027	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,4-Dichlorobenzene	<0.025		0.068	0.025	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Dichlorodifluoromethane	<0.046		0.20	0.046	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,1-Dichloroethane	<0.028		0.068	0.028	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,2-Dichloroethane	<0.027		0.068	0.027	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,1-Dichloroethene	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,2-Dichloropropane	<0.029		0.068	0.029	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,3-Dichloropropane	<0.025		0.068	0.025	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
2,2-Dichloropropane	<0.030		0.068	0.030	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,1-Dichloropropene	<0.020		0.068	0.020	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Hexachlorobutadiene	<0.030		0.068	0.030	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Isopropylbenzene	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Isopropyl ether	<0.019		0.068	0.019	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Methyl tert-butyl ether	<0.027		0.068	0.027	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Naphthalene	<0.023		0.068	0.023	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
n-Butylbenzene	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
N-Propylbenzene	<0.028		0.068	0.028	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
p-Isopropyltoluene	<0.025		0.068	0.025	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
sec-Butylbenzene	<0.027		0.068	0.027	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Styrene	<0.026		0.068	0.026	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
tert-Butylbenzene	<0.027		0.068	0.027	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,1,1,2-Tetrachloroethane	<0.031		0.068	0.031	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
1,1,2,2-Tetrachloroethane	<0.027		0.068	0.027	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Tetrachloroethene	<0.025		0.068	0.025	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
Toluene	<0.010		0.017	0.010	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50
trans-1,3-Dichloropropene	<0.025		0.068	0.025	mg/Kg	✳	03/22/22 14:00	03/28/22 15:49	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-1, 3.5-5'

Lab Sample ID: 500-214086-8

Date Collected: 03/22/22 14:00

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	✱	03/22/22 14:00	03/28/22 15:49	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	✱	03/22/22 14:00	03/28/22 15:49	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	✱	03/22/22 14:00	03/28/22 15:49	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	✱	03/22/22 14:00	03/28/22 15:49	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	✱	03/22/22 14:00	03/28/22 15:49	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	✱	03/22/22 14:00	03/28/22 15:49	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	✱	03/22/22 14:00	03/28/22 15:49	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	✱	03/22/22 14:00	03/28/22 15:49	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	✱	03/22/22 14:00	03/28/22 15:49	50
Vinyl chloride	<0.018		0.068	0.018	mg/Kg	✱	03/22/22 14:00	03/28/22 15:49	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	✱	03/22/22 14:00	03/28/22 15:49	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124				03/22/22 14:00	03/28/22 15:49	50
Dibromofluoromethane (Surr)	93		75 - 120				03/22/22 14:00	03/28/22 15:49	50
1,2-Dichloroethane-d4 (Surr)	99		75 - 126				03/22/22 14:00	03/28/22 15:49	50
Toluene-d8 (Surr)	96		75 - 120				03/22/22 14:00	03/28/22 15:49	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.039	0.0070	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Anthracene	<0.0065		0.039	0.0065	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Benzo[a]anthracene	<0.0052		0.039	0.0052	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Benzo[a]pyrene	<0.0075		0.039	0.0075	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Benzo[b]fluoranthene	<0.0084		0.039	0.0084	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Benzo[k]fluoranthene	<0.011		0.039	0.011	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Chrysene	<0.011		0.039	0.011	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Dibenz(a,h)anthracene	<0.0075		0.039	0.0075	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Fluoranthene	0.036	J	0.039	0.0072	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
1-Methylnaphthalene	<0.0095		0.078	0.0095	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Phenanthrene	<0.0054		0.039	0.0054	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Pyrene	<0.0077		0.039	0.0077	mg/Kg	✱	04/05/22 07:03	04/05/22 19:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	69		43 - 145				04/05/22 07:03	04/05/22 19:23	1
Nitrobenzene-d5 (Surr)	57		37 - 147				04/05/22 07:03	04/05/22 19:23	1
Terphenyl-d14 (Surr)	119		42 - 157				04/05/22 07:03	04/05/22 19:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		1.1	0.38	mg/Kg	✱	03/29/22 00:37	03/29/22 19:11	1
Barium	62		1.1	0.13	mg/Kg	✱	03/29/22 00:37	03/29/22 19:11	1
Cadmium	<0.040		0.22	0.040	mg/Kg	✱	03/29/22 00:37	03/29/22 19:11	1
Chromium	23	B	1.1	0.55	mg/Kg	✱	03/29/22 00:37	03/30/22 14:32	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-1, 3.5-5'

Lab Sample ID: 500-214086-8

Date Collected: 03/22/22 14:00

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 84.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.56	0.26	mg/Kg	☼	03/29/22 00:37	03/29/22 19:11	1
Selenium	<0.65		1.1	0.65	mg/Kg	☼	03/29/22 00:37	03/29/22 19:11	1
Silver	0.21	J	0.56	0.14	mg/Kg	☼	03/29/22 00:37	03/29/22 19:11	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.018		0.018	0.0059	mg/Kg	☼	04/04/22 14:25	04/05/22 09:09	1



Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-1, 6-7.5'

Lab Sample ID: 500-214086-9

Date Collected: 03/22/22 14:15

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0075		0.019	0.0075	mg/Kg	✳	04/01/22 07:21	04/04/22 17:56	1
PCB-1221	<0.0075		0.019	0.0075	mg/Kg	✳	04/01/22 07:21	04/04/22 17:56	1
PCB-1232	<0.0052		0.019	0.0052	mg/Kg	✳	04/01/22 07:21	04/04/22 17:56	1
PCB-1242	<0.0075		0.019	0.0075	mg/Kg	✳	04/01/22 07:21	04/04/22 17:56	1
PCB-1248	<0.0091		0.019	0.0091	mg/Kg	✳	04/01/22 07:21	04/04/22 17:56	1
PCB-1254	<0.0065		0.019	0.0065	mg/Kg	✳	04/01/22 07:21	04/04/22 17:56	1
PCB-1260	0.086		0.019	0.0072	mg/Kg	✳	04/01/22 07:21	04/04/22 17:56	1
Polychlorinated biphenyls, Total	0.086		0.019	0.0052	mg/Kg	✳	04/01/22 07:21	04/04/22 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	76		49 - 129				04/01/22 07:21	04/04/22 17:56	1
<i>DCB Decachlorobiphenyl</i>	93		37 - 121				04/01/22 07:21	04/04/22 17:56	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-6, 10.5-15.5'

Lab Sample ID: 500-214086-10

Date Collected: 03/22/22 12:50

Matrix: Solid

Date Received: 03/24/22 09:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			04/04/22 13:21	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			04/04/22 13:21	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			04/04/22 13:21	20
Chloroform	<0.020		0.040	0.020	mg/L			04/04/22 13:21	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			04/04/22 13:21	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			04/04/22 13:21	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			04/04/22 13:21	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			04/04/22 13:21	20
Trichloroethene	<0.010		0.020	0.010	mg/L			04/04/22 13:21	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			04/04/22 13:21	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124		04/04/22 13:21	20
Dibromofluoromethane (Surr)	93		75 - 120		04/04/22 13:21	20
1,2-Dichloroethane-d4 (Surr)	95		75 - 126		04/04/22 13:21	20
Toluene-d8 (Surr)	94		75 - 120		04/04/22 13:21	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.10	*3	0.10	0.10	mg/L		04/01/22 10:51	04/04/22 12:17	5
2,4-Dinitrotoluene	<0.050		0.050	0.050	mg/L		04/01/22 10:51	04/04/22 12:17	5
Hexachlorobenzene	<0.025		0.025	0.025	mg/L		04/01/22 10:51	04/04/22 12:17	5
Hexachlorobutadiene	<0.25	*3	0.25	0.25	mg/L		04/01/22 10:51	04/04/22 12:17	5
Hexachloroethane	<0.25	*+ *3	0.25	0.25	mg/L		04/01/22 10:51	04/04/22 12:17	5
2-Methylphenol	<0.10	*3	0.10	0.10	mg/L		04/01/22 10:51	04/04/22 12:17	5
3 & 4 Methylphenol	<0.10	*3	0.10	0.10	mg/L		04/01/22 10:51	04/04/22 12:17	5
Nitrobenzene	<0.050	*3	0.050	0.050	mg/L		04/01/22 10:51	04/04/22 12:17	5
Pentachlorophenol	<1.0		1.0	1.0	mg/L		04/01/22 10:51	04/04/22 12:17	5
Pyridine	<1.0	*3	1.0	1.0	mg/L		04/01/22 10:51	04/04/22 12:17	5
2,4,5-Trichlorophenol	<0.50		0.50	0.50	mg/L		04/01/22 10:51	04/04/22 12:17	5
2,4,6-Trichlorophenol	<0.25		0.25	0.25	mg/L		04/01/22 10:51	04/04/22 12:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	51		34 - 110	04/01/22 10:51	04/04/22 12:17	5
2-Fluorophenol (Surr)	53	*3	27 - 110	04/01/22 10:51	04/04/22 12:17	5
Nitrobenzene-d5 (Surr)	57	*3	36 - 120	04/01/22 10:51	04/04/22 12:17	5
Phenol-d5 (Surr)	24	*3	20 - 100	04/01/22 10:51	04/04/22 12:17	5
Terphenyl-d14 (Surr)	107		40 - 145	04/01/22 10:51	04/04/22 12:17	5
2,4,6-Tribromophenol (Surr)	78		40 - 145	04/01/22 10:51	04/04/22 12:17	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0062		0.016	0.0062	mg/Kg		04/01/22 07:21	04/04/22 18:12	1
PCB-1221	<0.0062		0.016	0.0062	mg/Kg		04/01/22 07:21	04/04/22 18:12	1
PCB-1232	<0.0043		0.016	0.0043	mg/Kg		04/01/22 07:21	04/04/22 18:12	1
PCB-1242	<0.0061		0.016	0.0061	mg/Kg		04/01/22 07:21	04/04/22 18:12	1
PCB-1248	<0.0075		0.016	0.0075	mg/Kg		04/01/22 07:21	04/04/22 18:12	1
PCB-1254	<0.0053		0.016	0.0053	mg/Kg		04/01/22 07:21	04/04/22 18:12	1
PCB-1260	<0.0059		0.016	0.0059	mg/Kg		04/01/22 07:21	04/04/22 18:12	1
Polychlorinated biphenyls, Total	<0.0043		0.016	0.0043	mg/Kg		04/01/22 07:21	04/04/22 18:12	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-6, 10.5-15.5'

Lab Sample ID: 500-214086-10

Date Collected: 03/22/22 12:50

Matrix: Solid

Date Received: 03/24/22 09:55

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		49 - 129	04/01/22 07:21	04/04/22 18:12	1
DCB Decachlorobiphenyl	90		37 - 121	04/01/22 07:21	04/04/22 18:12	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/31/22 18:27	04/01/22 13:37	1
Barium	0.32	J	0.50	0.050	mg/L		03/31/22 18:27	04/01/22 13:37	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/31/22 18:27	04/01/22 13:37	1
Chromium	<0.010		0.025	0.010	mg/L		03/31/22 18:27	04/01/22 13:37	1
Copper	<0.010		0.025	0.010	mg/L		03/31/22 18:27	04/01/22 13:37	1
Lead	<0.0075		0.050	0.0075	mg/L		03/31/22 18:27	04/01/22 13:37	1
Nickel	<0.010		0.025	0.010	mg/L		03/31/22 18:27	04/01/22 13:37	1
Selenium	<0.020		0.050	0.020	mg/L		03/31/22 18:27	04/01/22 13:37	1
Silver	<0.010		0.025	0.010	mg/L		03/31/22 18:27	04/01/22 13:37	1
Zinc	<0.020		0.10	0.020	mg/L		03/31/22 18:27	04/01/22 13:37	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/31/22 11:20	04/01/22 11:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	<0.11		0.22	0.11	mg/Kg		04/05/22 12:25	04/05/22 14:45	1
Sulfide	<4.7		9.9	4.7	mg/Kg		03/30/22 15:00	03/31/22 14:37	1
pH	7.7	HF	0.2	0.2	SU			03/25/22 18:55	1
Paint Filter	Pass				No Unit			03/30/22 18:24	1
Total Chlorine	<0.092		0.092	0.092	%		04/01/22 10:02	04/01/22 13:49	1
Specific Gravity	2.1136				NONE			03/29/22 16:10	1

Definitions/Glossary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Qualifiers

GC/MS VOA

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

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Glossary

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

QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

GC/MS VOA

Prep Batch: 648901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	5035	
500-214086-2	B-11, 6-7.5'	Total/NA	Solid	5035	
500-214086-3	B-11, 11-12.5'	Total/NA	Solid	5035	
500-214086-4	B-11, 16-17.5'	Total/NA	Solid	5035	
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	5035	
500-214086-6	B-6, 6-7.5'	Total/NA	Solid	5035	
500-214086-7	B-1, 1-2.5'	Total/NA	Solid	5035	
500-214086-8	B-1, 3.5-5'	Total/NA	Solid	5035	
LB3 500-648901/14-A	Method Blank	Total/NA	Solid	5035	
LCS 500-648901/15-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 648960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	8260B	648901
500-214086-2	B-11, 6-7.5'	Total/NA	Solid	8260B	648901
500-214086-3	B-11, 11-12.5'	Total/NA	Solid	8260B	648901
500-214086-4	B-11, 16-17.5'	Total/NA	Solid	8260B	648901
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	8260B	648901
500-214086-6	B-6, 6-7.5'	Total/NA	Solid	8260B	648901
500-214086-7	B-1, 1-2.5'	Total/NA	Solid	8260B	648901
500-214086-8	B-1, 3.5-5'	Total/NA	Solid	8260B	648901
LB3 500-648901/14-A	Method Blank	Total/NA	Solid	8260B	648901
MB 500-648960/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-648901/15-A	Lab Control Sample	Total/NA	Solid	8260B	648901
LCS 500-648960/5	Lab Control Sample	Total/NA	Solid	8260B	

Leach Batch: 649914

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	TCLP	Solid	1311	
LB 500-649914/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 650012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	TCLP	Solid	8260B	649914
LB 500-649914/1-A	Method Blank	TCLP	Solid	8260B	649914
MB 500-650012/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-650012/5	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 649559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	TCLP	Solid	1311	
LB 500-649559/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 649875

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	TCLP	Solid	3510C	649559
LB 500-649559/1-C	Method Blank	TCLP	Solid	3510C	649559
MB 500-649875/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-649875/2-A	Lab Control Sample	Total/NA	Solid	3510C	

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QC Association Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

GC/MS Semi VOA

Analysis Batch: 649988

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	TCLP	Solid	8270D	649875
LB 500-649559/1-C	Method Blank	TCLP	Solid	8270D	649875
MB 500-649875/1-A	Method Blank	Total/NA	Solid	8270D	649875
LCS 500-649875/2-A	Lab Control Sample	Total/NA	Solid	8270D	649875

Prep Batch: 650173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	3541	
500-214086-2	B-11, 6-7.5'	Total/NA	Solid	3541	
500-214086-3	B-11, 11-12.5'	Total/NA	Solid	3541	
500-214086-4	B-11, 16-17.5'	Total/NA	Solid	3541	
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	3541	
500-214086-6	B-6, 6-7.5'	Total/NA	Solid	3541	
500-214086-7	B-1, 1-2.5'	Total/NA	Solid	3541	
500-214086-8	B-1, 3.5-5'	Total/NA	Solid	3541	
MB 500-650173/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-650173/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 650275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-3	B-11, 11-12.5'	Total/NA	Solid	8270D	650173
500-214086-4	B-11, 16-17.5'	Total/NA	Solid	8270D	650173
500-214086-8	B-1, 3.5-5'	Total/NA	Solid	8270D	650173
MB 500-650173/1-A	Method Blank	Total/NA	Solid	8270D	650173
LCS 500-650173/2-A	Lab Control Sample	Total/NA	Solid	8270D	650173

Analysis Batch: 650415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	8270D	650173
500-214086-2	B-11, 6-7.5'	Total/NA	Solid	8270D	650173
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	8270D	650173
500-214086-6	B-6, 6-7.5'	Total/NA	Solid	8270D	650173
500-214086-7	B-1, 1-2.5'	Total/NA	Solid	8270D	650173

GC Semi VOA

Prep Batch: 649792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	3541	
500-214086-2	B-11, 6-7.5'	Total/NA	Solid	3541	
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	3541	
500-214086-6	B-6, 6-7.5'	Total/NA	Solid	3541	
500-214086-7	B-1, 1-2.5'	Total/NA	Solid	3541	
500-214086-9	B-1, 6-7.5'	Total/NA	Solid	3541	
500-214086-10	B-6, 10.5-15.5'	Total/NA	Solid	3541	
MB 500-649792/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-649792/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 650000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	8082A	649792

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

GC Semi VOA (Continued)

Analysis Batch: 650000 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-2	B-11, 6-7.5'	Total/NA	Solid	8082A	649792
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	8082A	649792
500-214086-6	B-6, 6-7.5'	Total/NA	Solid	8082A	649792
500-214086-7	B-1, 1-2.5'	Total/NA	Solid	8082A	649792
500-214086-9	B-1, 6-7.5'	Total/NA	Solid	8082A	649792
500-214086-10	B-6, 10.5-15.5'	Total/NA	Solid	8082A	649792
MB 500-649792/1-A	Method Blank	Total/NA	Solid	8082A	649792
LCS 500-649792/2-A	Lab Control Sample	Total/NA	Solid	8082A	649792

Metals

Prep Batch: 649106

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	3050B	
500-214086-2	B-11, 6-7.5'	Total/NA	Solid	3050B	
500-214086-3	B-11, 11-12.5'	Total/NA	Solid	3050B	
500-214086-4	B-11, 16-17.5'	Total/NA	Solid	3050B	
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	3050B	
500-214086-6	B-6, 6-7.5'	Total/NA	Solid	3050B	
500-214086-7	B-1, 1-2.5'	Total/NA	Solid	3050B	
500-214086-8	B-1, 3.5-5'	Total/NA	Solid	3050B	
MB 500-649106/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-649106/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 649418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	6010B	649106
500-214086-2	B-11, 6-7.5'	Total/NA	Solid	6010B	649106
500-214086-3	B-11, 11-12.5'	Total/NA	Solid	6010B	649106
500-214086-4	B-11, 16-17.5'	Total/NA	Solid	6010B	649106
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	6010B	649106
500-214086-6	B-6, 6-7.5'	Total/NA	Solid	6010B	649106
500-214086-7	B-1, 1-2.5'	Total/NA	Solid	6010B	649106
500-214086-8	B-1, 3.5-5'	Total/NA	Solid	6010B	649106
MB 500-649106/1-A	Method Blank	Total/NA	Solid	6010B	649106
LCS 500-649106/2-A	Lab Control Sample	Total/NA	Solid	6010B	649106

Leach Batch: 649559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	TCLP	Solid	1311	
LB 500-649559/1-B	Method Blank	TCLP	Solid	1311	
LB 500-649559/2-B	Method Blank	TCLP	Solid	1311	

Analysis Batch: 649647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-2	B-11, 6-7.5'	Total/NA	Solid	6010B	649106
500-214086-6	B-6, 6-7.5'	Total/NA	Solid	6010B	649106
500-214086-7	B-1, 1-2.5'	Total/NA	Solid	6010B	649106
500-214086-8	B-1, 3.5-5'	Total/NA	Solid	6010B	649106
MB 500-649106/1-A	Method Blank	Total/NA	Solid	6010B	649106
LCS 500-649106/2-A	Lab Control Sample	Total/NA	Solid	6010B	649106

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Metals

Prep Batch: 649687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	TCLP	Solid	7470A	649559
LB 500-649559/2-B	Method Blank	TCLP	Solid	7470A	649559
MB 500-649687/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-649687/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 649743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	TCLP	Solid	3010A	649559
LB 500-649559/1-B	Method Blank	TCLP	Solid	3010A	649559
LCS 500-649743/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 649890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	TCLP	Solid	7470A	649687
LB 500-649559/2-B	Method Blank	TCLP	Solid	7470A	649687
MB 500-649687/12-A	Method Blank	Total/NA	Solid	7470A	649687
LCS 500-649687/14-A	Lab Control Sample	Total/NA	Solid	7470A	649687

Prep Batch: 649925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	3050B	
500-214086-3	B-11, 11-12.5'	Total/NA	Solid	3050B	
500-214086-4	B-11, 16-17.5'	Total/NA	Solid	3050B	
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	3050B	
MB 500-649925/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-649925/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 650063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	TCLP	Solid	6010B	649743
LB 500-649559/1-B	Method Blank	TCLP	Solid	6010B	649743
LCS 500-649743/2-A	Lab Control Sample	Total/NA	Solid	6010B	649743

Prep Batch: 650096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	7471A	
500-214086-2	B-11, 6-7.5'	Total/NA	Solid	7471A	
500-214086-3	B-11, 11-12.5'	Total/NA	Solid	7471A	
500-214086-4	B-11, 16-17.5'	Total/NA	Solid	7471A	
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	7471A	
500-214086-6	B-6, 6-7.5'	Total/NA	Solid	7471A	
500-214086-7	B-1, 1-2.5'	Total/NA	Solid	7471A	
500-214086-8	B-1, 3.5-5'	Total/NA	Solid	7471A	
MB 500-650096/12-A	Method Blank	Total/NA	Solid	7471A	
LCS 500-650096/13-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 650242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	6010B	649925
500-214086-3	B-11, 11-12.5'	Total/NA	Solid	6010B	649925
500-214086-4	B-11, 16-17.5'	Total/NA	Solid	6010B	649925

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Metals (Continued)

Analysis Batch: 650242 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	6010B	649925
MB 500-649925/1-A	Method Blank	Total/NA	Solid	6010B	649925
LCS 500-649925/2-A	Lab Control Sample	Total/NA	Solid	6010B	649925

Analysis Batch: 650301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	7471A	650096
500-214086-2	B-11, 6-7.5'	Total/NA	Solid	7471A	650096
500-214086-3	B-11, 11-12.5'	Total/NA	Solid	7471A	650096
500-214086-4	B-11, 16-17.5'	Total/NA	Solid	7471A	650096
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	7471A	650096
500-214086-6	B-6, 6-7.5'	Total/NA	Solid	7471A	650096
500-214086-7	B-1, 1-2.5'	Total/NA	Solid	7471A	650096
500-214086-8	B-1, 3.5-5'	Total/NA	Solid	7471A	650096
MB 500-650096/12-A	Method Blank	Total/NA	Solid	7471A	650096
LCS 500-650096/13-A	Lab Control Sample	Total/NA	Solid	7471A	650096

General Chemistry

Analysis Batch: 648907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	Total/NA	Solid	9045D	
LCS 500-648907/2	Lab Control Sample	Total/NA	Solid	9045D	
LCS 500-648907/3	Lab Control Sample Dup	Total/NA	Solid	9045D	

Analysis Batch: 649303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	Total/NA	Solid	SM 2710F	

Prep Batch: 649517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	Total/NA	Solid	9030B	
MB 500-649517/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 500-649517/2-A	Lab Control Sample	Total/NA	Solid	9030B	
500-214086-10 MS	B-6, 10.5-15.5'	Total/NA	Solid	9030B	
500-214086-10 MSD	B-6, 10.5-15.5'	Total/NA	Solid	9030B	

Analysis Batch: 649728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	Total/NA	Solid	9034	649517
MB 500-649517/1-A	Method Blank	Total/NA	Solid	9034	649517
LCS 500-649517/2-A	Lab Control Sample	Total/NA	Solid	9034	649517
500-214086-10 MS	B-6, 10.5-15.5'	Total/NA	Solid	9034	649517
500-214086-10 MSD	B-6, 10.5-15.5'	Total/NA	Solid	9034	649517

Analysis Batch: 649731

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	Total/NA	Solid	9095B	

QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

General Chemistry

Analysis Batch: 649861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-1	B-11, 1-2.5'	Total/NA	Solid	Moisture	
500-214086-2	B-11, 6-7.5'	Total/NA	Solid	Moisture	
500-214086-3	B-11, 11-12.5'	Total/NA	Solid	Moisture	
500-214086-4	B-11, 16-17.5'	Total/NA	Solid	Moisture	
500-214086-5	B-6, 1-2.5'	Total/NA	Solid	Moisture	
500-214086-6	B-6, 6-7.5'	Total/NA	Solid	Moisture	
500-214086-7	B-1, 1-2.5'	Total/NA	Solid	Moisture	
500-214086-8	B-1, 3.5-5'	Total/NA	Solid	Moisture	
500-214086-9	B-1, 6-7.5'	Total/NA	Solid	Moisture	
500-214086-10	B-6, 10.5-15.5'	Total/NA	Solid	Moisture	
500-214086-3 DU	B-11, 11-12.5'	Total/NA	Solid	Moisture	

Prep Batch: 650299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	Total/NA	Solid	9010C	
MB 500-650299/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-650299/2-A	Lab Control Sample	Total/NA	Solid	9010C	
LCS 500-650299/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-650299/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 650324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	Total/NA	Solid	9012B	650299
MB 500-650299/1-A	Method Blank	Total/NA	Solid	9012B	650299
HLCS 500-650299/2-A	Lab Control Sample	Total/NA	Solid	9012B	650299
LCS 500-650299/3-A	Lab Control Sample	Total/NA	Solid	9012B	650299
LLCS 500-650299/4-A	Lab Control Sample	Total/NA	Solid	9012B	650299

Prep Batch: 713719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	Total/NA	Solid	5050	
MB 680-713719/1-A	Method Blank	Total/NA	Solid	5050	
LCS 680-713719/2-A	Lab Control Sample	Total/NA	Solid	5050	

Analysis Batch: 713783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214086-10	B-6, 10.5-15.5'	Total/NA	Solid	9251	713719
MB 680-713719/1-A	Method Blank	Total/NA	Solid	9251	713719
LCS 680-713719/2-A	Lab Control Sample	Total/NA	Solid	9251	713719

Surrogate Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-214086-1	B-11, 1-2.5'	96	93	96	96
500-214086-2	B-11, 6-7.5'	95	94	98	94
500-214086-3	B-11, 11-12.5'	95	94	98	95
500-214086-4	B-11, 16-17.5'	99	93	97	96
500-214086-5	B-6, 1-2.5'	97	93	99	95
500-214086-6	B-6, 6-7.5'	97	93	98	96
500-214086-7	B-1, 1-2.5'	96	93	97	96
500-214086-8	B-1, 3.5-5'	98	93	99	96
LB3 500-648901/14-A	Method Blank	95	94	96	96
LCS 500-648901/15-A	Lab Control Sample	99	96	98	95
LCS 500-648960/5	Lab Control Sample	97	97	95	97
LCS 500-650012/5	Lab Control Sample	98	98	99	96
MB 500-648960/7	Method Blank	99	95	97	96
MB 500-650012/7	Method Blank	99	97	101	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

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

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-214086-10	B-6, 10.5-15.5'	98	93	95	94
LB 500-649914/1-A	Method Blank	98	94	94	95

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

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

TOL = Toluene-d8 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (43-145)	NBZ (37-147)	TPHL (42-157)
500-214086-1	B-11, 1-2.5'	66	61	101
500-214086-2	B-11, 6-7.5'	66	58	107
500-214086-3	B-11, 11-12.5'	88	69	120
500-214086-4	B-11, 16-17.5'	87	65	108
500-214086-5	B-6, 1-2.5'	65	59	108
500-214086-6	B-6, 6-7.5'	62	55	99
500-214086-7	B-1, 1-2.5'	67	57	102
500-214086-8	B-1, 3.5-5'	69	57	119
LCS 500-650173/2-A	Lab Control Sample	105	90	105

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Surrogate Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (43-145)	NBZ (37-147)	TPHL (42-157)
MB 500-650173/1-A	Method Blank	93	71	116

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	2FP (27-110)	FBP (34-110)	PHL (20-100)	TBP (40-145)	NBZ (36-120)	TPHL (40-145)
LCS 500-649875/2-A	Lab Control Sample	91	108	47	84	93	101
MB 500-649875/1-A	Method Blank	57 *3	69	27 *3	71	63 *3	122

Surrogate Legend

2FP = 2-Fluorophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

PHL = Phenol-d5 (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPHL (40-145)	TBP (40-145)
500-214086-10	B-6, 10.5-15.5'	51	53 *3	57 *3	24 *3	107	78
LB 500-649559/1-C	Method Blank	72	45 *3	69	23 *3	121	83

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

TBP = 2,4,6-Tribromophenol (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (49-129)	TCX2 (49-129)	DCBP1 (37-121)	DCBP2 (37-121)
500-214086-1	B-11, 1-2.5'	99		94	
500-214086-2	B-11, 6-7.5'	86		88	
500-214086-5	B-6, 1-2.5'	85		85	
500-214086-6	B-6, 6-7.5'	76		89	
500-214086-7	B-1, 1-2.5'	80		82	
500-214086-9	B-1, 6-7.5'		76		93

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Surrogate Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (49-129)	TCX2 (49-129)	DCBP1 (37-121)	DCBP2 (37-121)
500-214086-10	B-6, 10.5-15.5'	79		90	
LCS 500-649792/2-A	Lab Control Sample	109	91	95	89
MB 500-649792/1-A	Method Blank	108	93	93	90

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Lab Sample ID: LB3 500-648901/14-A
Matrix: Solid
Analysis Batch: 648960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648901

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.0073		0.013	0.0073	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Bromobenzene	<0.018		0.050	0.018	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Bromochloromethane	<0.021		0.050	0.021	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Bromodichloromethane	<0.019		0.050	0.019	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Bromoform	<0.024		0.050	0.024	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Bromomethane	<0.040		0.15	0.040	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Carbon tetrachloride	<0.019		0.050	0.019	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Chlorobenzene	<0.019		0.050	0.019	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Chloroethane	<0.025		0.050	0.025	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Chloroform	<0.019		0.10	0.019	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Chloromethane	<0.016		0.050	0.016	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
2-Chlorotoluene	<0.016		0.050	0.016	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
4-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
cis-1,2-Dichloroethene	<0.020		0.050	0.020	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
cis-1,3-Dichloropropene	<0.021		0.050	0.021	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Dibromochloromethane	<0.024		0.050	0.024	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,2-Dibromo-3-Chloropropane	<0.10		0.25	0.10	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,2-Dibromoethane	<0.019		0.050	0.019	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Dibromomethane	<0.014		0.050	0.014	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,2-Dichlorobenzene	<0.017		0.050	0.017	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,4-Dichlorobenzene	<0.018		0.050	0.018	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Dichlorodifluoromethane	<0.034		0.15	0.034	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,1-Dichloroethane	<0.021		0.050	0.021	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,2-Dichloroethane	<0.020		0.050	0.020	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,1-Dichloroethene	<0.020		0.050	0.020	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,2-Dichloropropane	<0.021		0.050	0.021	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,3-Dichloropropane	<0.018		0.050	0.018	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
2,2-Dichloropropane	<0.022		0.050	0.022	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,1-Dichloropropene	<0.015		0.050	0.015	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Ethylbenzene	<0.0092		0.013	0.0092	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Hexachlorobutadiene	<0.022		0.050	0.022	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Isopropylbenzene	<0.019		0.050	0.019	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Isopropyl ether	<0.014		0.050	0.014	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Methylene Chloride	<0.082		0.25	0.082	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Methyl tert-butyl ether	<0.020		0.050	0.020	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Naphthalene	<0.017		0.050	0.017	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
n-Butylbenzene	<0.019		0.050	0.019	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
N-Propylbenzene	<0.021		0.050	0.021	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
p-Isopropyltoluene	<0.018		0.050	0.018	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
sec-Butylbenzene	<0.020		0.050	0.020	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Styrene	<0.019		0.050	0.019	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
tert-Butylbenzene	<0.020		0.050	0.020	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,1,1,2-Tetrachloroethane	<0.023		0.050	0.023	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,1,2,2-Tetrachloroethane	<0.020		0.050	0.020	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Toluene	<0.0074		0.013	0.0074	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
trans-1,2-Dichloroethene	<0.018		0.050	0.018	mg/Kg		03/27/22 19:25	03/28/22 11:48	50

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Lab Sample ID: LB3 500-648901/14-A
Matrix: Solid
Analysis Batch: 648960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 648901

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.018		0.050	0.018	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,2,3-Trichlorobenzene	<0.023		0.050	0.023	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,2,4-Trichlorobenzene	<0.017		0.050	0.017	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,1,1-Trichloroethane	<0.019		0.050	0.019	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,1,2-Trichloroethane	<0.018		0.050	0.018	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Trichloroethene	<0.0082		0.025	0.0082	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Trichlorofluoromethane	<0.021		0.050	0.021	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,2,3-Trichloropropane	<0.021		0.10	0.021	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,2,4-Trimethylbenzene	<0.018		0.050	0.018	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
1,3,5-Trimethylbenzene	<0.019		0.050	0.019	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Vinyl chloride	<0.013		0.050	0.013	mg/Kg		03/27/22 19:25	03/28/22 11:48	50
Xylenes, Total	<0.011		0.025	0.011	mg/Kg		03/27/22 19:25	03/28/22 11:48	50

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	95		72 - 124	03/27/22 19:25	03/28/22 11:48	50
Dibromofluoromethane (Surr)	94		75 - 120	03/27/22 19:25	03/28/22 11:48	50
1,2-Dichloroethane-d4 (Surr)	96		75 - 126	03/27/22 19:25	03/28/22 11:48	50
Toluene-d8 (Surr)	96		75 - 120	03/27/22 19:25	03/28/22 11:48	50

Lab Sample ID: LCS 500-648901/15-A
Matrix: Solid
Analysis Batch: 648960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648901

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	2.50	2.55		mg/Kg		102	70 - 120
Bromobenzene	2.50	2.68		mg/Kg		107	70 - 122
Bromochloromethane	2.50	2.72		mg/Kg		109	65 - 122
Bromodichloromethane	2.50	2.60		mg/Kg		104	69 - 120
Bromoform	2.50	2.50		mg/Kg		100	56 - 132
Bromomethane	2.50	2.18		mg/Kg		87	40 - 152
Carbon tetrachloride	2.50	2.62		mg/Kg		105	59 - 133
Chlorobenzene	2.50	2.58		mg/Kg		103	70 - 120
Chloroethane	2.50	2.44		mg/Kg		98	48 - 136
Chloroform	2.50	2.51		mg/Kg		100	70 - 120
Chloromethane	2.50	1.87		mg/Kg		75	56 - 152
2-Chlorotoluene	2.50	2.58		mg/Kg		103	70 - 125
4-Chlorotoluene	2.50	2.59		mg/Kg		104	68 - 124
cis-1,2-Dichloroethene	2.50	2.63		mg/Kg		105	70 - 125
cis-1,3-Dichloropropene	2.50	2.52		mg/Kg		101	64 - 127
Dibromochloromethane	2.50	2.56		mg/Kg		102	68 - 125
1,2-Dibromo-3-Chloropropane	2.50	2.51		mg/Kg		100	56 - 123
1,2-Dibromoethane	2.50	2.62		mg/Kg		105	70 - 125
Dibromomethane	2.50	2.63		mg/Kg		105	70 - 120
1,2-Dichlorobenzene	2.50	2.59		mg/Kg		104	70 - 125
1,3-Dichlorobenzene	2.50	2.58		mg/Kg		103	70 - 125
1,4-Dichlorobenzene	2.50	2.53		mg/Kg		101	70 - 120
Dichlorodifluoromethane	2.50	1.20		mg/Kg		48	40 - 159
1,1-Dichloroethane	2.50	2.58		mg/Kg		103	70 - 125

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Lab Sample ID: LCS 500-648901/15-A
Matrix: Solid
Analysis Batch: 648960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 648901

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	2.50	2.75		mg/Kg		110	68 - 127
1,1-Dichloroethene	2.50	2.47		mg/Kg		99	67 - 122
1,2-Dichloropropane	2.50	2.64		mg/Kg		105	67 - 130
1,3-Dichloropropane	2.50	2.61		mg/Kg		104	62 - 136
2,2-Dichloropropane	2.50	2.45		mg/Kg		98	58 - 139
1,1-Dichloropropene	2.50	2.49		mg/Kg		100	70 - 121
Ethylbenzene	2.50	2.63		mg/Kg		105	70 - 123
Hexachlorobutadiene	2.50	2.51		mg/Kg		101	51 - 150
Isopropylbenzene	2.50	2.63		mg/Kg		105	70 - 126
Methylene Chloride	2.50	2.54		mg/Kg		102	69 - 125
Methyl tert-butyl ether	2.50	2.53		mg/Kg		101	55 - 123
Naphthalene	2.50	2.70		mg/Kg		108	53 - 144
n-Butylbenzene	2.50	2.47		mg/Kg		99	68 - 125
N-Propylbenzene	2.50	2.59		mg/Kg		103	69 - 127
p-Isopropyltoluene	2.50	2.59		mg/Kg		103	70 - 125
sec-Butylbenzene	2.50	2.63		mg/Kg		105	70 - 123
Styrene	2.50	2.66		mg/Kg		106	70 - 120
tert-Butylbenzene	2.50	2.64		mg/Kg		106	70 - 121
1,1,1,2-Tetrachloroethane	2.50	2.62		mg/Kg		105	70 - 125
1,1,1,2,2-Tetrachloroethane	2.50	2.50		mg/Kg		100	62 - 140
Tetrachloroethene	2.50	2.53		mg/Kg		101	70 - 128
Toluene	2.50	2.64		mg/Kg		106	70 - 125
trans-1,2-Dichloroethene	2.50	2.53		mg/Kg		101	70 - 125
trans-1,3-Dichloropropene	2.50	2.59		mg/Kg		103	62 - 128
1,2,3-Trichlorobenzene	2.50	2.50		mg/Kg		100	51 - 145
1,2,4-Trichlorobenzene	2.50	2.40		mg/Kg		96	57 - 137
1,1,1-Trichloroethane	2.50	2.68		mg/Kg		107	70 - 125
1,1,2-Trichloroethane	2.50	2.54		mg/Kg		102	71 - 130
Trichloroethene	2.50	2.65		mg/Kg		106	70 - 125
Trichlorofluoromethane	2.50	2.43		mg/Kg		97	55 - 128
1,2,3-Trichloropropane	2.50	2.69		mg/Kg		107	50 - 133
1,2,4-Trimethylbenzene	2.50	2.63		mg/Kg		105	70 - 123
1,3,5-Trimethylbenzene	2.50	2.64		mg/Kg		105	70 - 123
Vinyl chloride	2.50	1.94		mg/Kg		78	64 - 126
Xylenes, Total	5.00	5.17		mg/Kg		103	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		72 - 124
Dibromofluoromethane (Surr)	96		75 - 120
1,2-Dichloroethane-d4 (Surr)	98		75 - 126
Toluene-d8 (Surr)	95		75 - 120

Lab Sample ID: MB 500-648960/7
Matrix: Solid
Analysis Batch: 648960

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00015		0.00025	0.00015	mg/Kg			03/28/22 11:24	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Lab Sample ID: MB 500-648960/7
Matrix: Solid
Analysis Batch: 648960

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.00036		0.0010	0.00036	mg/Kg			03/28/22 11:24	1
Bromochloromethane	<0.00043		0.0010	0.00043	mg/Kg			03/28/22 11:24	1
Bromodichloromethane	<0.00037		0.0010	0.00037	mg/Kg			03/28/22 11:24	1
Bromoform	<0.00048		0.0010	0.00048	mg/Kg			03/28/22 11:24	1
Bromomethane	<0.00080		0.0030	0.00080	mg/Kg			03/28/22 11:24	1
Carbon tetrachloride	<0.00038		0.0010	0.00038	mg/Kg			03/28/22 11:24	1
Chlorobenzene	<0.00039		0.0010	0.00039	mg/Kg			03/28/22 11:24	1
Chloroethane	<0.00050		0.0010	0.00050	mg/Kg			03/28/22 11:24	1
Chloroform	<0.00037		0.0020	0.00037	mg/Kg			03/28/22 11:24	1
Chloromethane	<0.00032		0.0010	0.00032	mg/Kg			03/28/22 11:24	1
2-Chlorotoluene	<0.00031		0.0010	0.00031	mg/Kg			03/28/22 11:24	1
4-Chlorotoluene	<0.00035		0.0010	0.00035	mg/Kg			03/28/22 11:24	1
cis-1,2-Dichloroethene	<0.00041		0.0010	0.00041	mg/Kg			03/28/22 11:24	1
cis-1,3-Dichloropropene	<0.00042		0.0010	0.00042	mg/Kg			03/28/22 11:24	1
Dibromochloromethane	<0.00049		0.0010	0.00049	mg/Kg			03/28/22 11:24	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg			03/28/22 11:24	1
1,2-Dibromoethane	<0.00039		0.0010	0.00039	mg/Kg			03/28/22 11:24	1
Dibromomethane	<0.00027		0.0010	0.00027	mg/Kg			03/28/22 11:24	1
1,2-Dichlorobenzene	<0.00033		0.0010	0.00033	mg/Kg			03/28/22 11:24	1
1,3-Dichlorobenzene	<0.00040		0.0010	0.00040	mg/Kg			03/28/22 11:24	1
1,4-Dichlorobenzene	<0.00036		0.0010	0.00036	mg/Kg			03/28/22 11:24	1
Dichlorodifluoromethane	<0.00067		0.0030	0.00067	mg/Kg			03/28/22 11:24	1
1,1-Dichloroethane	<0.00041		0.0010	0.00041	mg/Kg			03/28/22 11:24	1
1,2-Dichloroethane	<0.00039		0.0010	0.00039	mg/Kg			03/28/22 11:24	1
1,1-Dichloroethene	<0.00039		0.0010	0.00039	mg/Kg			03/28/22 11:24	1
1,2-Dichloropropane	<0.00043		0.0010	0.00043	mg/Kg			03/28/22 11:24	1
1,3-Dichloropropane	<0.00036		0.0010	0.00036	mg/Kg			03/28/22 11:24	1
2,2-Dichloropropane	<0.00044		0.0010	0.00044	mg/Kg			03/28/22 11:24	1
1,1-Dichloropropene	<0.00030		0.0010	0.00030	mg/Kg			03/28/22 11:24	1
Ethylbenzene	<0.00018		0.00025	0.00018	mg/Kg			03/28/22 11:24	1
Hexachlorobutadiene	<0.00045		0.0010	0.00045	mg/Kg			03/28/22 11:24	1
Isopropylbenzene	<0.00038		0.0010	0.00038	mg/Kg			03/28/22 11:24	1
Isopropyl ether	<0.00028		0.0010	0.00028	mg/Kg			03/28/22 11:24	1
Methylene Chloride	<0.0016		0.0050	0.0016	mg/Kg			03/28/22 11:24	1
Methyl tert-butyl ether	<0.00039		0.0010	0.00039	mg/Kg			03/28/22 11:24	1
Naphthalene	<0.00033		0.0010	0.00033	mg/Kg			03/28/22 11:24	1
n-Butylbenzene	<0.00039		0.0010	0.00039	mg/Kg			03/28/22 11:24	1
N-Propylbenzene	<0.00041		0.0010	0.00041	mg/Kg			03/28/22 11:24	1
p-Isopropyltoluene	<0.00036		0.0010	0.00036	mg/Kg			03/28/22 11:24	1
sec-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			03/28/22 11:24	1
Styrene	<0.00039		0.0010	0.00039	mg/Kg			03/28/22 11:24	1
tert-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			03/28/22 11:24	1
1,1,1,2-Tetrachloroethane	<0.00046		0.0010	0.00046	mg/Kg			03/28/22 11:24	1
1,1,2,2-Tetrachloroethane	<0.00040		0.0010	0.00040	mg/Kg			03/28/22 11:24	1
Tetrachloroethene	<0.00037		0.0010	0.00037	mg/Kg			03/28/22 11:24	1
Toluene	<0.00015		0.00025	0.00015	mg/Kg			03/28/22 11:24	1
trans-1,2-Dichloroethene	<0.00035		0.0010	0.00035	mg/Kg			03/28/22 11:24	1
trans-1,3-Dichloropropene	<0.00036		0.0010	0.00036	mg/Kg			03/28/22 11:24	1
1,2,3-Trichlorobenzene	<0.00046		0.0010	0.00046	mg/Kg			03/28/22 11:24	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Lab Sample ID: MB 500-648960/7
Matrix: Solid
Analysis Batch: 648960

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.00034		0.0010	0.00034	mg/Kg			03/28/22 11:24	1
1,1,1-Trichloroethane	<0.00038		0.0010	0.00038	mg/Kg			03/28/22 11:24	1
1,1,2-Trichloroethane	<0.00035		0.0010	0.00035	mg/Kg			03/28/22 11:24	1
Trichloroethene	<0.00016		0.00050	0.00016	mg/Kg			03/28/22 11:24	1
Trichlorofluoromethane	<0.00043		0.0010	0.00043	mg/Kg			03/28/22 11:24	1
1,2,3-Trichloropropane	<0.00041		0.0020	0.00041	mg/Kg			03/28/22 11:24	1
1,2,4-Trimethylbenzene	<0.00036		0.0010	0.00036	mg/Kg			03/28/22 11:24	1
1,3,5-Trimethylbenzene	<0.00038		0.0010	0.00038	mg/Kg			03/28/22 11:24	1
Vinyl chloride	<0.00026		0.0010	0.00026	mg/Kg			03/28/22 11:24	1
Xylenes, Total	<0.00022		0.00050	0.00022	mg/Kg			03/28/22 11:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		72 - 124		03/28/22 11:24	1
Dibromofluoromethane (Surr)	95		75 - 120		03/28/22 11:24	1
1,2-Dichloroethane-d4 (Surr)	97		75 - 126		03/28/22 11:24	1
Toluene-d8 (Surr)	96		75 - 120		03/28/22 11:24	1

Lab Sample ID: LCS 500-648960/5
Matrix: Solid
Analysis Batch: 648960

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0476		mg/Kg		95	70 - 120
Bromobenzene	0.0500	0.0499		mg/Kg		100	70 - 122
Bromochloromethane	0.0500	0.0492		mg/Kg		98	65 - 122
Bromodichloromethane	0.0500	0.0482		mg/Kg		96	69 - 120
Bromoform	0.0500	0.0464		mg/Kg		93	56 - 132
Bromomethane	0.0500	0.0592		mg/Kg		118	40 - 152
Carbon tetrachloride	0.0500	0.0503		mg/Kg		101	59 - 133
Chlorobenzene	0.0500	0.0486		mg/Kg		97	70 - 120
Chloroethane	0.0500	0.0479		mg/Kg		96	48 - 136
Chloroform	0.0500	0.0469		mg/Kg		94	70 - 120
Chloromethane	0.0500	0.0386		mg/Kg		77	56 - 152
2-Chlorotoluene	0.0500	0.0491		mg/Kg		98	70 - 125
4-Chlorotoluene	0.0500	0.0497		mg/Kg		99	68 - 124
cis-1,2-Dichloroethene	0.0500	0.0484		mg/Kg		97	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0477		mg/Kg		95	64 - 127
Dibromochloromethane	0.0500	0.0487		mg/Kg		97	68 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0438		mg/Kg		88	56 - 123
1,2-Dibromoethane	0.0500	0.0477		mg/Kg		95	70 - 125
Dibromomethane	0.0500	0.0468		mg/Kg		94	70 - 120
1,2-Dichlorobenzene	0.0500	0.0487		mg/Kg		97	70 - 125
1,3-Dichlorobenzene	0.0500	0.0494		mg/Kg		99	70 - 125
1,4-Dichlorobenzene	0.0500	0.0485		mg/Kg		97	70 - 120
Dichlorodifluoromethane	0.0500	0.0321		mg/Kg		64	40 - 159
1,1-Dichloroethane	0.0500	0.0486		mg/Kg		97	70 - 125
1,2-Dichloroethane	0.0500	0.0491		mg/Kg		98	68 - 127
1,1-Dichloroethene	0.0500	0.0473		mg/Kg		95	67 - 122

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Lab Sample ID: LCS 500-648960/5
Matrix: Solid
Analysis Batch: 648960

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0477		mg/Kg		95	67 - 130
1,3-Dichloropropane	0.0500	0.0463		mg/Kg		93	62 - 136
2,2-Dichloropropane	0.0500	0.0496		mg/Kg		99	58 - 139
1,1-Dichloropropene	0.0500	0.0476		mg/Kg		95	70 - 121
Ethylbenzene	0.0500	0.0502		mg/Kg		100	70 - 123
Hexachlorobutadiene	0.0500	0.0485		mg/Kg		97	51 - 150
Isopropylbenzene	0.0500	0.0506		mg/Kg		101	70 - 126
Methylene Chloride	0.0500	0.0461		mg/Kg		92	69 - 125
Methyl tert-butyl ether	0.0500	0.0449		mg/Kg		90	55 - 123
Naphthalene	0.0500	0.0458		mg/Kg		92	53 - 144
n-Butylbenzene	0.0500	0.0492		mg/Kg		98	68 - 125
N-Propylbenzene	0.0500	0.0501		mg/Kg		100	69 - 127
p-Isopropyltoluene	0.0500	0.0509		mg/Kg		102	70 - 125
sec-Butylbenzene	0.0500	0.0509		mg/Kg		102	70 - 123
Styrene	0.0500	0.0504		mg/Kg		101	70 - 120
tert-Butylbenzene	0.0500	0.0506		mg/Kg		101	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0508		mg/Kg		102	70 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.0449		mg/Kg		90	62 - 140
Tetrachloroethene	0.0500	0.0503		mg/Kg		101	70 - 128
Toluene	0.0500	0.0503		mg/Kg		101	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0480		mg/Kg		96	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0485		mg/Kg		97	62 - 128
1,2,3-Trichlorobenzene	0.0500	0.0444		mg/Kg		89	51 - 145
1,2,4-Trichlorobenzene	0.0500	0.0459		mg/Kg		92	57 - 137
1,1,1-Trichloroethane	0.0500	0.0508		mg/Kg		102	70 - 125
1,1,2-Trichloroethane	0.0500	0.0464		mg/Kg		93	71 - 130
Trichloroethene	0.0500	0.0502		mg/Kg		100	70 - 125
Trichlorofluoromethane	0.0500	0.0475		mg/Kg		95	55 - 128
1,2,3-Trichloropropane	0.0500	0.0472		mg/Kg		94	50 - 133
1,2,4-Trimethylbenzene	0.0500	0.0502		mg/Kg		100	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0507		mg/Kg		101	70 - 123
Vinyl chloride	0.0500	0.0423		mg/Kg		85	64 - 126
Xylenes, Total	0.100	0.0993		mg/Kg		99	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		72 - 124
Dibromofluoromethane (Surr)	97		75 - 120
1,2-Dichloroethane-d4 (Surr)	95		75 - 126
Toluene-d8 (Surr)	97		75 - 120

Lab Sample ID: MB 500-650012/7
Matrix: Solid
Analysis Batch: 650012

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.0010	0.00050	mg/L			04/04/22 11:44	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			04/04/22 11:44	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			04/04/22 11:44	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Lab Sample ID: MB 500-650012/7

Matrix: Solid

Analysis Batch: 650012

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			04/04/22 11:44	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			04/04/22 11:44	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			04/04/22 11:44	1
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			04/04/22 11:44	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			04/04/22 11:44	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			04/04/22 11:44	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			04/04/22 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		72 - 124		04/04/22 11:44	1
Dibromofluoromethane (Surr)	97		75 - 120		04/04/22 11:44	1
1,2-Dichloroethane-d4 (Surr)	101		75 - 126		04/04/22 11:44	1
Toluene-d8 (Surr)	94		75 - 120		04/04/22 11:44	1

Lab Sample ID: LCS 500-650012/5

Matrix: Solid

Analysis Batch: 650012

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0504		mg/L		101	70 - 120
Carbon tetrachloride	0.0500	0.0537		mg/L		107	59 - 133
Chlorobenzene	0.0500	0.0504		mg/L		101	70 - 120
Methyl Ethyl Ketone	0.0500	0.0495		mg/L		99	46 - 144
Chloroform	0.0500	0.0498		mg/L		100	70 - 120
1,2-Dichloroethane	0.0500	0.0537		mg/L		107	68 - 127
1,1-Dichloroethene	0.0500	0.0500		mg/L		100	67 - 122
Tetrachloroethene	0.0500	0.0515		mg/L		103	70 - 128
Trichloroethene	0.0500	0.0536		mg/L		107	70 - 125
Vinyl chloride	0.0500	0.0434		mg/L		87	64 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		72 - 124
Dibromofluoromethane (Surr)	98		75 - 120
1,2-Dichloroethane-d4 (Surr)	99		75 - 126
Toluene-d8 (Surr)	96		75 - 120

Lab Sample ID: LB 500-649914/1-A

Matrix: Solid

Analysis Batch: 650012

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			04/04/22 12:08	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			04/04/22 12:08	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			04/04/22 12:08	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			04/04/22 12:08	20
Chloroform	<0.020		0.040	0.020	mg/L			04/04/22 12:08	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			04/04/22 12:08	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			04/04/22 12:08	20

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Lab Sample ID: LB 500-649914/1-A
Matrix: Solid
Analysis Batch: 650012

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB	LB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Tetrachloroethene	<0.010		0.020	0.010	mg/L			04/04/22 12:08	20
Trichloroethene	<0.010		0.020	0.010	mg/L			04/04/22 12:08	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			04/04/22 12:08	20
Surrogate	LB	LB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	98		72 - 124					04/04/22 12:08	20
Dibromofluoromethane (Surr)	94		75 - 120					04/04/22 12:08	20
1,2-Dichloroethane-d4 (Surr)	94		75 - 126					04/04/22 12:08	20
Toluene-d8 (Surr)	95		75 - 120					04/04/22 12:08	20

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

Lab Sample ID: MB 500-649875/1-A
Matrix: Solid
Analysis Batch: 649988

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649875

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	<0.0020	*3	0.0020	0.0020	mg/L		04/01/22 10:51	04/04/22 09:05	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		04/01/22 10:51	04/04/22 09:05	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		04/01/22 10:51	04/04/22 09:05	1
Hexachlorobutadiene	<0.0050	*3	0.0050	0.0050	mg/L		04/01/22 10:51	04/04/22 09:05	1
Hexachloroethane	<0.0050	*3	0.0050	0.0050	mg/L		04/01/22 10:51	04/04/22 09:05	1
2-Methylphenol	<0.0020	*3	0.0020	0.0020	mg/L		04/01/22 10:51	04/04/22 09:05	1
3 & 4 Methylphenol	<0.0020	*3	0.0020	0.0020	mg/L		04/01/22 10:51	04/04/22 09:05	1
Nitrobenzene	<0.0010	*3	0.0010	0.0010	mg/L		04/01/22 10:51	04/04/22 09:05	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		04/01/22 10:51	04/04/22 09:05	1
Pyridine	<0.020	*3	0.020	0.020	mg/L		04/01/22 10:51	04/04/22 09:05	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		04/01/22 10:51	04/04/22 09:05	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		04/01/22 10:51	04/04/22 09:05	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
2-Fluorophenol (Surr)	57	*3	27 - 110				04/01/22 10:51	04/04/22 09:05	1
2-Fluorobiphenyl (Surr)	69		34 - 110				04/01/22 10:51	04/04/22 09:05	1
Phenol-d5 (Surr)	27	*3	20 - 100				04/01/22 10:51	04/04/22 09:05	1
2,4,6-Tribromophenol (Surr)	71		40 - 145				04/01/22 10:51	04/04/22 09:05	1
Nitrobenzene-d5 (Surr)	63	*3	36 - 120				04/01/22 10:51	04/04/22 09:05	1
Terphenyl-d14 (Surr)	122		40 - 145				04/01/22 10:51	04/04/22 09:05	1

Lab Sample ID: LCS 500-649875/2-A
Matrix: Solid
Analysis Batch: 649988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	0.0400	0.0411		mg/L		103	63 - 129
Hexachlorobenzene	0.0400	0.0395		mg/L		99	61 - 126
Hexachlorobutadiene	0.0400	0.0381		mg/L		95	20 - 100
Hexachloroethane	0.0400	0.0416	*+	mg/L		104	20 - 100

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Lab Sample ID: LCS 500-649875/2-A
Matrix: Solid
Analysis Batch: 649988

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649875

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Methylphenol	0.0400	0.0395		mg/L		99	53 - 115
3 & 4 Methylphenol	0.0400	0.0365		mg/L		91	50 - 116
Nitrobenzene	0.0400	0.0396		mg/L		99	54 - 121
Pentachlorophenol	0.0800	0.0613		mg/L		77	42 - 148
Pyridine	0.0800	0.0431		mg/L		54	15 - 110
2,4,5-Trichlorophenol	0.0400	0.0400		mg/L		100	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0391		mg/L		98	62 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	91		27 - 110
2-Fluorobiphenyl (Surr)	108		34 - 110
Phenol-d5 (Surr)	47		20 - 100
2,4,6-Tribromophenol (Surr)	84		40 - 145
Nitrobenzene-d5 (Surr)	93		36 - 120
Terphenyl-d14 (Surr)	101		40 - 145

Lab Sample ID: MB 500-650173/1-A
Matrix: Solid
Analysis Batch: 650275

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 650173

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
1-Methylnaphthalene	<0.0081		0.067	0.0081	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		04/05/22 07:03	04/05/22 16:07	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		04/05/22 07:03	04/05/22 16:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	93		43 - 145	04/05/22 07:03	04/05/22 16:07	1
Nitrobenzene-d5 (Surr)	71		37 - 147	04/05/22 07:03	04/05/22 16:07	1
Terphenyl-d14 (Surr)	116		42 - 157	04/05/22 07:03	04/05/22 16:07	1

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Lab Sample ID: LCS 500-650173/2-A
Matrix: Solid
Analysis Batch: 650275

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 650173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1.33	1.36		mg/Kg		102	65 - 124
Acenaphthylene	1.33	1.34		mg/Kg		101	68 - 120
Anthracene	1.33	1.49		mg/Kg		112	70 - 114
Benzo[a]anthracene	1.33	1.24		mg/Kg		93	67 - 122
Benzo[a]pyrene	1.33	1.34		mg/Kg		101	65 - 133
Benzo[b]fluoranthene	1.33	1.24		mg/Kg		93	69 - 129
Benzo[g,h,i]perylene	1.33	1.39		mg/Kg		104	72 - 131
Benzo[k]fluoranthene	1.33	1.39		mg/Kg		104	68 - 127
Chrysene	1.33	1.29		mg/Kg		97	63 - 120
Dibenz(a,h)anthracene	1.33	1.33		mg/Kg		100	64 - 131
Fluoranthene	1.33	1.24		mg/Kg		93	62 - 120
Fluorene	1.33	1.36		mg/Kg		102	62 - 120
Indeno[1,2,3-cd]pyrene	1.33	1.32		mg/Kg		99	68 - 130
1-Methylnaphthalene	1.33	1.27		mg/Kg		95	68 - 111
2-Methylnaphthalene	1.33	1.30		mg/Kg		97	69 - 112
Naphthalene	1.33	1.21		mg/Kg		91	63 - 110
Phenanthrene	1.33	1.45		mg/Kg		109	62 - 120
Pyrene	1.33	1.35		mg/Kg		101	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	105		43 - 145
Nitrobenzene-d5 (Surr)	90		37 - 147
Terphenyl-d14 (Surr)	105		42 - 157

Lab Sample ID: LB 500-649559/1-C
Matrix: Solid
Analysis Batch: 649988

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 649875

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020	*3	0.020	0.020	mg/L		04/01/22 10:51	04/04/22 09:53	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		04/01/22 10:51	04/04/22 09:53	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		04/01/22 10:51	04/04/22 09:53	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		04/01/22 10:51	04/04/22 09:53	1
Hexachloroethane	<0.050	*3	0.050	0.050	mg/L		04/01/22 10:51	04/04/22 09:53	1
2-Methylphenol	<0.020	*3	0.020	0.020	mg/L		04/01/22 10:51	04/04/22 09:53	1
3 & 4 Methylphenol	<0.020	*3	0.020	0.020	mg/L		04/01/22 10:51	04/04/22 09:53	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		04/01/22 10:51	04/04/22 09:53	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		04/01/22 10:51	04/04/22 09:53	1
Pyridine	<0.20	*3	0.20	0.20	mg/L		04/01/22 10:51	04/04/22 09:53	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		04/01/22 10:51	04/04/22 09:53	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		04/01/22 10:51	04/04/22 09:53	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	45	*3	27 - 110	04/01/22 10:51	04/04/22 09:53	1
2-Fluorobiphenyl (Surr)	72		34 - 110	04/01/22 10:51	04/04/22 09:53	1
Phenol-d5 (Surr)	23	*3	20 - 100	04/01/22 10:51	04/04/22 09:53	1
2,4,6-Tribromophenol (Surr)	83		40 - 145	04/01/22 10:51	04/04/22 09:53	1
Nitrobenzene-d5 (Surr)	69		36 - 120	04/01/22 10:51	04/04/22 09:53	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Lab Sample ID: LB 500-649559/1-C
Matrix: Solid
Analysis Batch: 649988

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 649875

Surrogate	LB	LB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Terphenyl-d14 (Surr)	121		40 - 145	04/01/22 10:51	04/04/22 09:53	1

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

Lab Sample ID: MB 500-649792/1-A
Matrix: Solid
Analysis Batch: 650000

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649792

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.0066		0.017	0.0066	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1016	<0.0066		0.017	0.0066	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1221	<0.0066		0.017	0.0066	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1221	<0.0066		0.017	0.0066	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1232	<0.0045		0.017	0.0045	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1232	<0.0045		0.017	0.0045	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1242	<0.0065		0.017	0.0065	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1242	<0.0065		0.017	0.0065	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1248	<0.0079		0.017	0.0079	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1248	<0.0079		0.017	0.0079	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1254	<0.0057		0.017	0.0057	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1254	<0.0057		0.017	0.0057	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1260	<0.0063		0.017	0.0063	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
PCB-1260	<0.0063		0.017	0.0063	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
Polychlorinated biphenyls, Total	<0.0045		0.017	0.0045	mg/Kg		04/01/22 07:21	04/04/22 09:46	1
Polychlorinated biphenyls, Total	<0.0045		0.017	0.0045	mg/Kg		04/01/22 07:21	04/04/22 09:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	108		49 - 129	04/01/22 07:21	04/04/22 09:46	1
Tetrachloro-m-xylene	93		49 - 129	04/01/22 07:21	04/04/22 09:46	1
DCB Decachlorobiphenyl	93		37 - 121	04/01/22 07:21	04/04/22 09:46	1
DCB Decachlorobiphenyl	90		37 - 121	04/01/22 07:21	04/04/22 09:46	1

Lab Sample ID: LCS 500-649792/2-A
Matrix: Solid
Analysis Batch: 650000

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649792

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				Limits
PCB-1016	0.167	0.155		mg/Kg		93	57 - 120
PCB-1016	0.167	0.163		mg/Kg		98	57 - 120
PCB-1260	0.167	0.154		mg/Kg		92	61 - 125
PCB-1260	0.167	0.159		mg/Kg		96	61 - 125

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	109		49 - 129
Tetrachloro-m-xylene	91		49 - 129
DCB Decachlorobiphenyl	95		37 - 121
DCB Decachlorobiphenyl	89		37 - 121

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-649106/1-A
Matrix: Solid
Analysis Batch: 649418

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		03/29/22 00:37	03/29/22 18:17	1
Barium	<0.11		1.0	0.11	mg/Kg		03/29/22 00:37	03/29/22 18:17	1
Cadmium	0.0450	J	0.20	0.036	mg/Kg		03/29/22 00:37	03/29/22 18:17	1
Lead	<0.23		0.50	0.23	mg/Kg		03/29/22 00:37	03/29/22 18:17	1
Selenium	<0.59		1.0	0.59	mg/Kg		03/29/22 00:37	03/29/22 18:17	1
Silver	<0.13		0.50	0.13	mg/Kg		03/29/22 00:37	03/29/22 18:17	1

Lab Sample ID: MB 500-649106/1-A
Matrix: Solid
Analysis Batch: 649647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649106

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	1.91		1.0	0.50	mg/Kg		03/29/22 00:37	03/30/22 13:18	1

Lab Sample ID: LCS 500-649106/2-A
Matrix: Solid
Analysis Batch: 649418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	8.54		mg/Kg		85	80 - 120
Barium	200	202		mg/Kg		101	80 - 120
Cadmium	5.00	4.42		mg/Kg		88	80 - 120
Lead	10.0	8.63		mg/Kg		86	80 - 120
Selenium	10.0	7.98		mg/Kg		80	80 - 120
Silver	5.00	4.03		mg/Kg		81	80 - 120

Lab Sample ID: LCS 500-649106/2-A
Matrix: Solid
Analysis Batch: 649647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649106

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	20.0	19.8		mg/Kg		99	80 - 120

Lab Sample ID: LCS 500-649743/2-A
Matrix: Solid
Analysis Batch: 650063

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649743

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.109		mg/L		109	80 - 120
Barium	0.500	0.524		mg/L		105	80 - 120
Cadmium	0.0500	0.0524		mg/L		105	80 - 120
Chromium	0.200	0.199		mg/L		99	80 - 120
Copper	0.250	0.269		mg/L		108	80 - 120
Lead	0.100	0.0954		mg/L		95	80 - 120
Nickel	0.500	0.512		mg/L		102	80 - 120
Selenium	0.100	0.111		mg/L		111	80 - 120
Silver	0.0500	0.0545		mg/L		109	80 - 120
Zinc	0.500	0.553		mg/L		111	80 - 120

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

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

Lab Sample ID: MB 500-649925/1-A
Matrix: Solid
Analysis Batch: 650242

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649925

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.50		1.0	0.50	mg/Kg		04/01/22 16:42	04/04/22 12:09	1

Lab Sample ID: LCS 500-649925/2-A
Matrix: Solid
Analysis Batch: 650242

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649925

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chromium	20.0	18.5		mg/Kg		92	80 - 120

Lab Sample ID: LB 500-649559/1-B
Matrix: Solid
Analysis Batch: 650063

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 649743

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/31/22 18:27	04/01/22 12:24	1
Barium	<0.050		0.50	0.050	mg/L		03/31/22 18:27	04/01/22 12:24	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/31/22 18:27	04/01/22 12:24	1
Chromium	<0.010		0.025	0.010	mg/L		03/31/22 18:27	04/01/22 12:24	1
Copper	<0.010		0.025	0.010	mg/L		03/31/22 18:27	04/01/22 12:24	1
Lead	<0.0075		0.050	0.0075	mg/L		03/31/22 18:27	04/01/22 12:24	1
Nickel	<0.010		0.025	0.010	mg/L		03/31/22 18:27	04/01/22 12:24	1
Selenium	<0.020		0.050	0.020	mg/L		03/31/22 18:27	04/01/22 12:24	1
Silver	<0.010		0.025	0.010	mg/L		03/31/22 18:27	04/01/22 12:24	1
Zinc	<0.020		0.10	0.020	mg/L		03/31/22 18:27	04/01/22 12:24	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-649687/12-A
Matrix: Solid
Analysis Batch: 649890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649687

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/31/22 11:20	04/01/22 11:08	1

Lab Sample ID: LCS 500-649687/14-A
Matrix: Solid
Analysis Batch: 649890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649687

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00208		mg/L		104	80 - 120

Lab Sample ID: LB 500-649559/2-B
Matrix: Solid
Analysis Batch: 649890

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 649687

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/31/22 11:20	04/01/22 11:10	1

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 500-650096/12-A
 Matrix: Solid
 Analysis Batch: 650301

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 650096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		04/04/22 14:25	04/05/22 08:49	1

Lab Sample ID: LCS 500-650096/13-A
 Matrix: Solid
 Analysis Batch: 650301

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 650096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.191		mg/Kg		115	80 - 120

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-650299/1-A
 Matrix: Solid
 Analysis Batch: 650324

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 650299

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	<0.12		0.24	0.12	mg/Kg		04/05/22 12:25	04/05/22 14:30	1

Lab Sample ID: HLCS 500-650299/2-A
 Matrix: Solid
 Analysis Batch: 650324

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 650299

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide	9.60	9.64		mg/Kg		100	90 - 110

Lab Sample ID: LCS 500-650299/3-A
 Matrix: Solid
 Analysis Batch: 650324

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 650299

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide	2.40	2.46		mg/Kg		103	85 - 115

Lab Sample ID: LLCS 500-650299/4-A
 Matrix: Solid
 Analysis Batch: 650324

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 650299

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide	1.20	1.27		mg/Kg		106	75 - 125

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-649517/1-A
 Matrix: Solid
 Analysis Batch: 649728

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 649517

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.7		10	4.7	mg/Kg		03/30/22 14:56	03/31/22 14:28	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 500-649517/2-A
Matrix: Solid
Analysis Batch: 649728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649517

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	189	170		mg/Kg		90	80 - 120

Lab Sample ID: 500-214086-10 MS
Matrix: Solid
Analysis Batch: 649728

Client Sample ID: B-6, 10.5-15.5'
Prep Type: Total/NA
Prep Batch: 649517

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	<4.7		183	153		mg/Kg		84	75 - 125

Lab Sample ID: 500-214086-10 MSD
Matrix: Solid
Analysis Batch: 649728

Client Sample ID: B-6, 10.5-15.5'
Prep Type: Total/NA
Prep Batch: 649517

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<4.7		184	155		mg/Kg		84	75 - 125	1	20

Method: 9251 - Chlorine, Total

Lab Sample ID: MB 680-713719/1-A
Matrix: Solid
Analysis Batch: 713783

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 713719

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Chlorine	<0.020		0.020	0.020	%		04/01/22 10:02	04/01/22 13:49	1

Lab Sample ID: LCS 680-713719/2-A
Matrix: Solid
Analysis Batch: 713783

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 713719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Chlorine	0.990	0.883		%		89	70 - 130

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 1-2.5'
Date Collected: 03/22/22 09:20
Date Received: 03/24/22 09:55

Lab Sample ID: 500-214086-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	649861	04/01/22 09:59	LWN	TAL CHI

Client Sample ID: B-11, 1-2.5'
Date Collected: 03/22/22 09:20
Date Received: 03/24/22 09:55

Lab Sample ID: 500-214086-1
Matrix: Solid
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			648901	03/22/22 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	648960	03/28/22 13:00	JDD	TAL CHI
Total/NA	Prep	3541			650173	04/05/22 07:03	FRG	TAL CHI
Total/NA	Analysis	8270D		1	650415	04/06/22 14:55	JSB	TAL CHI
Total/NA	Prep	3541			649792	04/01/22 07:21	FRG	TAL CHI
Total/NA	Analysis	8082A		1	650000	04/04/22 16:37	JBj	TAL CHI
Total/NA	Prep	3050B			649106	03/29/22 00:37	WRE	TAL CHI
Total/NA	Analysis	6010B		1	649418	03/29/22 18:42	JJB	TAL CHI
Total/NA	Prep	3050B			649925	04/01/22 16:42	LMB	TAL CHI
Total/NA	Analysis	6010B		1	650242	04/04/22 12:33	JJB	TAL CHI
Total/NA	Prep	7471A			650096	04/04/22 14:25	MJG	TAL CHI
Total/NA	Analysis	7471A		1	650301	04/05/22 08:53	MJG	TAL CHI

Client Sample ID: B-11, 6-7.5'
Date Collected: 03/22/22 09:25
Date Received: 03/24/22 09:55

Lab Sample ID: 500-214086-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	649861	04/01/22 09:59	LWN	TAL CHI

Client Sample ID: B-11, 6-7.5'
Date Collected: 03/22/22 09:25
Date Received: 03/24/22 09:55

Lab Sample ID: 500-214086-2
Matrix: Solid
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			648901	03/22/22 09:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	648960	03/28/22 13:24	JDD	TAL CHI
Total/NA	Prep	3541			650173	04/05/22 07:03	FRG	TAL CHI
Total/NA	Analysis	8270D		1	650415	04/06/22 15:17	JSB	TAL CHI
Total/NA	Prep	3541			649792	04/01/22 07:21	FRG	TAL CHI
Total/NA	Analysis	8082A		1	650000	04/04/22 16:53	JBj	TAL CHI
Total/NA	Prep	3050B			649106	03/29/22 00:37	WRE	TAL CHI
Total/NA	Analysis	6010B		1	649418	03/29/22 18:46	JJB	TAL CHI
Total/NA	Prep	3050B			649106	03/29/22 00:37	WRE	TAL CHI
Total/NA	Analysis	6010B		1	649647	03/30/22 14:07	JJB	TAL CHI
Total/NA	Prep	7471A			650096	04/04/22 14:25	MJG	TAL CHI
Total/NA	Analysis	7471A		1	650301	04/05/22 08:55	MJG	TAL CHI

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-11, 11-12.5'

Lab Sample ID: 500-214086-3

Date Collected: 03/22/22 10:20

Matrix: Solid

Date Received: 03/24/22 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	649861	04/01/22 09:59	LWN	TAL CHI

Client Sample ID: B-11, 11-12.5'

Lab Sample ID: 500-214086-3

Date Collected: 03/22/22 10:20

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			648901	03/22/22 10:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	648960	03/28/22 13:48	JDD	TAL CHI
Total/NA	Prep	3541			650173	04/05/22 07:03	FRG	TAL CHI
Total/NA	Analysis	8270D		1	650275	04/05/22 17:34	SS	TAL CHI
Total/NA	Prep	3050B			649106	03/29/22 00:37	WRE	TAL CHI
Total/NA	Analysis	6010B		1	649418	03/29/22 18:55	JJB	TAL CHI
Total/NA	Prep	3050B			649925	04/01/22 16:42	LMB	TAL CHI
Total/NA	Analysis	6010B		1	650242	04/04/22 12:37	JJB	TAL CHI
Total/NA	Prep	7471A			650096	04/04/22 14:25	MJG	TAL CHI
Total/NA	Analysis	7471A		1	650301	04/05/22 08:57	MJG	TAL CHI

Client Sample ID: B-11, 16-17.5'

Lab Sample ID: 500-214086-4

Date Collected: 03/22/22 10:40

Matrix: Solid

Date Received: 03/24/22 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	649861	04/01/22 09:59	LWN	TAL CHI

Client Sample ID: B-11, 16-17.5'

Lab Sample ID: 500-214086-4

Date Collected: 03/22/22 10:40

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			648901	03/22/22 10:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	648960	03/28/22 14:12	JDD	TAL CHI
Total/NA	Prep	3541			650173	04/05/22 07:03	FRG	TAL CHI
Total/NA	Analysis	8270D		1	650275	04/05/22 17:56	SS	TAL CHI
Total/NA	Prep	3050B			649106	03/29/22 00:37	WRE	TAL CHI
Total/NA	Analysis	6010B		1	649418	03/29/22 18:58	JJB	TAL CHI
Total/NA	Prep	3050B			649925	04/01/22 16:42	LMB	TAL CHI
Total/NA	Analysis	6010B		1	650242	04/04/22 12:40	JJB	TAL CHI
Total/NA	Prep	7471A			650096	04/04/22 14:25	MJG	TAL CHI
Total/NA	Analysis	7471A		1	650301	04/05/22 09:02	MJG	TAL CHI

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-6, 1-2.5'
Date Collected: 03/22/22 12:15
Date Received: 03/24/22 09:55

Lab Sample ID: 500-214086-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	649861	04/01/22 09:59	LWN	TAL CHI

Client Sample ID: B-6, 1-2.5'
Date Collected: 03/22/22 12:15
Date Received: 03/24/22 09:55

Lab Sample ID: 500-214086-5
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			648901	03/22/22 12:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	648960	03/28/22 14:37	JDD	TAL CHI
Total/NA	Prep	3541			650173	04/05/22 07:03	FRG	TAL CHI
Total/NA	Analysis	8270D		1	650415	04/06/22 15:40	JSB	TAL CHI
Total/NA	Prep	3541			649792	04/01/22 07:21	FRG	TAL CHI
Total/NA	Analysis	8082A		1	650000	04/04/22 17:09	JBj	TAL CHI
Total/NA	Prep	3050B			649106	03/29/22 00:37	WRE	TAL CHI
Total/NA	Analysis	6010B		1	649418	03/29/22 19:02	JJB	TAL CHI
Total/NA	Prep	3050B			649925	04/01/22 16:42	LMB	TAL CHI
Total/NA	Analysis	6010B		1	650242	04/04/22 12:50	JJB	TAL CHI
Total/NA	Prep	7471A			650096	04/04/22 14:25	MJG	TAL CHI
Total/NA	Analysis	7471A		1	650301	04/05/22 09:04	MJG	TAL CHI

Client Sample ID: B-6, 6-7.5'
Date Collected: 03/22/22 12:30
Date Received: 03/24/22 09:55

Lab Sample ID: 500-214086-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	649861	04/01/22 09:59	LWN	TAL CHI

Client Sample ID: B-6, 6-7.5'
Date Collected: 03/22/22 12:30
Date Received: 03/24/22 09:55

Lab Sample ID: 500-214086-6
Matrix: Solid
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			648901	03/22/22 12:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	648960	03/28/22 15:01	JDD	TAL CHI
Total/NA	Prep	3541			650173	04/05/22 07:03	FRG	TAL CHI
Total/NA	Analysis	8270D		1	650415	04/06/22 16:25	JSB	TAL CHI
Total/NA	Prep	3541			649792	04/01/22 07:21	FRG	TAL CHI
Total/NA	Analysis	8082A		1	650000	04/04/22 17:25	JBj	TAL CHI
Total/NA	Prep	3050B			649106	03/29/22 00:37	WRE	TAL CHI
Total/NA	Analysis	6010B		1	649418	03/29/22 19:05	JJB	TAL CHI
Total/NA	Prep	3050B			649106	03/29/22 00:37	WRE	TAL CHI
Total/NA	Analysis	6010B		1	649647	03/30/22 14:26	JJB	TAL CHI
Total/NA	Prep	7471A			650096	04/04/22 14:25	MJG	TAL CHI
Total/NA	Analysis	7471A		1	650301	04/05/22 09:06	MJG	TAL CHI

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-1, 1-2.5'

Date Collected: 03/22/22 13:50

Date Received: 03/24/22 09:55

Lab Sample ID: 500-214086-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	649861	04/01/22 09:59	LWN	TAL CHI

Client Sample ID: B-1, 1-2.5'

Date Collected: 03/22/22 13:50

Date Received: 03/24/22 09:55

Lab Sample ID: 500-214086-7

Matrix: Solid

Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			648901	03/22/22 13:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	648960	03/28/22 15:25	JDD	TAL CHI
Total/NA	Prep	3541			650173	04/05/22 07:03	FRG	TAL CHI
Total/NA	Analysis	8270D		1	650415	04/06/22 16:48	JSB	TAL CHI
Total/NA	Prep	3541			649792	04/01/22 07:21	FRG	TAL CHI
Total/NA	Analysis	8082A		1	650000	04/04/22 17:40	JBj	TAL CHI
Total/NA	Prep	3050B			649106	03/29/22 00:37	WRE	TAL CHI
Total/NA	Analysis	6010B		1	649418	03/29/22 19:08	JJB	TAL CHI
Total/NA	Prep	3050B			649106	03/29/22 00:37	WRE	TAL CHI
Total/NA	Analysis	6010B		1	649647	03/30/22 14:29	JJB	TAL CHI
Total/NA	Prep	7471A			650096	04/04/22 14:25	MJG	TAL CHI
Total/NA	Analysis	7471A		1	650301	04/05/22 09:08	MJG	TAL CHI

Client Sample ID: B-1, 3.5-5'

Date Collected: 03/22/22 14:00

Date Received: 03/24/22 09:55

Lab Sample ID: 500-214086-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	649861	04/01/22 09:59	LWN	TAL CHI

Client Sample ID: B-1, 3.5-5'

Date Collected: 03/22/22 14:00

Date Received: 03/24/22 09:55

Lab Sample ID: 500-214086-8

Matrix: Solid

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			648901	03/22/22 14:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	648960	03/28/22 15:49	JDD	TAL CHI
Total/NA	Prep	3541			650173	04/05/22 07:03	FRG	TAL CHI
Total/NA	Analysis	8270D		1	650275	04/05/22 19:23	SS	TAL CHI
Total/NA	Prep	3050B			649106	03/29/22 00:37	WRE	TAL CHI
Total/NA	Analysis	6010B		1	649418	03/29/22 19:11	JJB	TAL CHI
Total/NA	Prep	3050B			649106	03/29/22 00:37	WRE	TAL CHI
Total/NA	Analysis	6010B		1	649647	03/30/22 14:32	JJB	TAL CHI
Total/NA	Prep	7471A			650096	04/04/22 14:25	MJG	TAL CHI
Total/NA	Analysis	7471A		1	650301	04/05/22 09:09	MJG	TAL CHI

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Client Sample ID: B-1, 6-7.5'

Lab Sample ID: 500-214086-9

Date Collected: 03/22/22 14:15

Matrix: Solid

Date Received: 03/24/22 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	649861	04/01/22 09:59	LWN	TAL CHI

Client Sample ID: B-1, 6-7.5'

Lab Sample ID: 500-214086-9

Date Collected: 03/22/22 14:15

Matrix: Solid

Date Received: 03/24/22 09:55

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			649792	04/01/22 07:21	FRG	TAL CHI
Total/NA	Analysis	8082A		1	650000	04/04/22 17:56	JBj	TAL CHI

Client Sample ID: B-6, 10.5-15.5'

Lab Sample ID: 500-214086-10

Date Collected: 03/22/22 12:50

Matrix: Solid

Date Received: 03/24/22 09:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			649914	04/01/22 11:04	EA	TAL CHI
TCLP	Analysis	8260B		20	650012	04/04/22 13:21	STW	TAL CHI
TCLP	Leach	1311			649559	03/30/22 13:47	EA	TAL CHI
TCLP	Prep	3510C			649875	04/01/22 10:51	DAK	TAL CHI
TCLP	Analysis	8270D		5	649988	04/04/22 12:17	SS	TAL CHI
Total/NA	Prep	3541			649792	04/01/22 07:21	FRG	TAL CHI
Total/NA	Analysis	8082A		1	650000	04/04/22 18:12	JBj	TAL CHI
TCLP	Leach	1311			649559	03/30/22 13:47	EA	TAL CHI
TCLP	Prep	3010A			649743	03/31/22 18:27	LMB	TAL CHI
TCLP	Analysis	6010B		1	650063	04/01/22 13:37	JJB	TAL CHI
TCLP	Leach	1311			649559	03/30/22 13:47	EA	TAL CHI
TCLP	Prep	7470A			649687	03/31/22 11:20	MJG	TAL CHI
TCLP	Analysis	7470A		1	649890	04/01/22 11:14	MJG	TAL CHI
Total/NA	Prep	9010C			650299	04/05/22 12:25	SB	TAL CHI
Total/NA	Analysis	9012B		1	650324	04/05/22 14:45	SB	TAL CHI
Total/NA	Prep	9030B			649517	03/30/22 15:00	TMS	TAL CHI
Total/NA	Analysis	9034		1	649728	03/31/22 14:37	TMS	TAL CHI
Total/NA	Analysis	9045D		1	648907	03/25/22 18:55	LWN	TAL CHI
Total/NA	Analysis	9095B		1	649731		TMS	TAL CHI
					(Start)	03/30/22 18:24		
					(End)	03/30/22 18:29		
Total/NA	Prep	5050			713719	04/01/22 10:02	SM	TAL SAV
Total/NA	Analysis	9251		1	713783	04/01/22 13:49	SM	TAL SAV
Total/NA	Analysis	Moisture		1	649861	04/01/22 09:59	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	649303	03/29/22 16:10	PFK	TAL CHI

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214086-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999819810	08-31-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

500-214086



Sample Collector(s) Alex Huebner	Title Staff Engineer	Telephone # (incl area code) (262) 821-1171	Report To Robert Reineke and Daniel Pelczar
Property Owner MMSD VA Grounds MIS Relocation	Property Address 5000 W National Ave Milwaukee WI	Telephone # (incl area code)	KSingh Project # 40459

I hereby certify that I received properly and disposed of the samples as noted below

Relinquished By (Signature) <i>[Signature]</i>	Date/Time 4:30 pm / 3/22/22	Received By (Signature) <i>[Signature]</i>	Temperature Blank: 4.6 If samples were received on ice and there was ice remaining you may report the temperature as "received on ice" If all of the ice was melted the temperature of the melt may be substituted for the temperature blank.
Relinquished By (Signature) <i>[Signature]</i>	Date/Time 3.23.22 1700	Received By (Signature) <i>[Signature]</i> 3/24/22 0955	

1 Specify groundwater (GW) soil (S) air (A) sludge (SL) surface water (SW) etc
2 Sample description must clearly correlate the sample ID to the sampling location

1
2
3
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9
10

Date Collected	Time Collected	Samples		Location/Description (2)	VOCs	PAHS	PCRA Metals	PCBs	PFAS	Landfill Protocol B	Sample Condition						
		Type (1)	Device								# / Type of Container				Other Comment		
3/22/22	9:20	S01	SS	B-11, 1-2.5'	X	X	X	X				1				3	
	9:25			B-11, 6-7.5'	X	X	X	X				1				3	
	10:20			B-11, 11-12.5'	X	X	X					1				2	
	10:40			B-11, 16-17.5'	X	X	X					1				2	
	12:15			B-6, 1-2.5'	X	X	X	X				1				3	
	12:30			B-6, 6-7.5'	X	X	X	X				1				3	
	13:50			B-1, 1-2.5'	X	X	X	X				1				3	
	14:00			B-1, 3.5-5'	X	X	X					1				2	
	14:15			B-1, 6-7.5'				X								1	
	12:50			B-6, 10.5-15.5'						X						3	F11 sample

<p>DEPARTMENT USE / OPTIONAL FOR SOIL SAMPLES</p> <p>Disposition of unused portion of sample</p> <p>Laboratory should (check)</p> <p><input type="checkbox"/> Dispose <input type="checkbox"/> Return <input type="checkbox"/> Retain for (days) <input type="checkbox"/> Other</p>	<p>DEPARTMENT USE ONLY</p> <p>Split Samples Offered <input type="checkbox"/> Y <input type="checkbox"/> N Accepted By</p> <p>Accepted <input type="checkbox"/> Y <input type="checkbox"/> N</p> <p>Signature</p>
---	--



Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-214086-1

Login Number: 214086

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-214086-1

Login Number: 214086

List Number: 2

Creator: Kirkland, Bernard C

List Source: Eurofins Savannah

List Creation: 03/25/22 12:58 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	



ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-214387-1

Client Project/Site: MMSD VA Grounds MIS Relocation - 40459

For:

K. Singh & Associates, Inc
3636 N. 124th Street
Wauwatosa, Wisconsin 53222

Attn: Mr. Robert Reineke



Authorized for release by:
4/18/2022 11:24:25 AM

Sandie Fredrick, Project Manager II
(920)261-1660
Sandra.Fredrick@et.eurofinsus.com

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

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

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

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Case Narrative

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Job ID: 500-214387-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-214387-1

Comments

No additional comments.

Receipt

The samples were received on 3/31/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA

Method 8260B: The laboratory control sample (LCS) for 649760 recovered outside control limits for 5 analytes. This is a prepped 5035 LCS. All daily instrument LCSs were acceptable, and the data have been reported. B-10, 8.5-10' (500-214387-2), B-10, 18.5-20' (500-214387-3), B-9, 1-2.5' (500-214387-4), B-9, 8.5-10' (500-214387-5), B-9, 13.5-15' (500-214387-6), B-8, 1-2.5' (500-214387-7), B-8, 8.5-10' (500-214387-8), B-7, 1-2.5' (500-214387-9), B-7, 8.5-10' (500-214387-10), B-3, 1-2.5' (500-214387-11), B-3, 8.5-10' (500-214387-12), B-2, 1-2.5' (500-214387-13), B-2, 5.5-7' (500-214387-14) and Trip Blank (500-214387-16)

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-650905 was outside the method criteria for the following analyte(s): 2,4,5-Trichlorophenol. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The following sample contained one acid surrogate outside acceptance limits: (MB 500-650734/1-A). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The following sample contained one acid and one base surrogate outside acceptance limits: B-3, 15.5-17' (500-214387-15). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The continuing calibration verification (CCV) analyzed in batch 500-651037 was outside the method criteria for the following analyte(s): Pentachlorophenol. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: Naphthalene-d8 Internal standard (ISTD) response for the following samples were outside of acceptance limits: B-3, 15.5-17' (500-214387-15). Analytes associated to this internal standard were non-detect; therefore, re-analysis was not performed.

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following sample was outside of acceptance limits: B-3, 15.5-17' (500-214387-15) and (500-214387-B-15-E MS). This internal standard is not associated to the reported analytes; therefore, re-analysis was not performed.

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-651442 was outside the method criteria for the following analyte(s): Benzo[k]fluoranthene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

GC Semi VOA

Method 8082A: The method blank (MB) was slightly outside of the control limits for DCB Decachlorobiphenyl for preparation batch 500-651428 and analytical batch 500-651796. The MB did not contain any target analytes; therefore the data has been reported. (MB 500-651428/1-A)

Case Narrative

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Job ID: 500-214387-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

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

Metals

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

General Chemistry

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

Organic Prep

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

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Detection Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-10, 1-2.5'

Lab Sample ID: 500-214387-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.052		0.036	0.0066	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.023	J	0.036	0.0048	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.21		0.036	0.0061	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.60		0.036	0.0049	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.60		0.036	0.0071	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.73		0.036	0.0079	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.29		0.036	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.26		0.036	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.64		0.036	0.0099	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.034	J	0.036	0.0070	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	1.5		0.036	0.0068	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.060		0.036	0.0051	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.27		0.036	0.0095	mg/Kg	1	✳	8270D	Total/NA
1-Methylnaphthalene	0.019	J	0.074	0.0089	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.023	J	0.074	0.0067	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.021	J	0.036	0.0056	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.69		0.036	0.0051	mg/Kg	1	✳	8270D	Total/NA
Pyrene	1.1		0.036	0.0072	mg/Kg	1	✳	8270D	Total/NA
Arsenic	3.7		1.1	0.36	mg/Kg	1	✳	6010B	Total/NA
Barium	54		1.1	0.12	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.18	J B	0.21	0.038	mg/Kg	1	✳	6010B	Total/NA
Chromium	19	B	1.1	0.52	mg/Kg	1	✳	6010B	Total/NA
Lead	13		0.53	0.24	mg/Kg	1	✳	6010B	Total/NA
Silver	0.30	J	0.53	0.14	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.030		0.018	0.0060	mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: B-10, 8.5-10'

Lab Sample ID: 500-214387-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.010	J	0.038	0.0065	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.014	J	0.038	0.0084	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.090		0.038	0.0072	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.018	J	0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.070		0.038	0.0077	mg/Kg	1	✳	8270D	Total/NA
Arsenic	3.2		1.1	0.37	mg/Kg	1	✳	6010B	Total/NA
Barium	56		1.1	0.12	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.091	J B	0.22	0.039	mg/Kg	1	✳	6010B	Total/NA
Chromium	21	B	1.1	0.54	mg/Kg	1	✳	6010B	Total/NA
Lead	8.8		0.55	0.25	mg/Kg	1	✳	6010B	Total/NA
Silver	0.24	J	0.55	0.14	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.017	J	0.019	0.0063	mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: B-10, 18.5-20'

Lab Sample ID: 500-214387-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		1.0	0.35	mg/Kg	1	✳	6010B	Total/NA
Barium	48		1.0	0.12	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.075	J B	0.20	0.037	mg/Kg	1	✳	6010B	Total/NA
Chromium	20	B	1.0	0.50	mg/Kg	1	✳	6010B	Total/NA
Lead	11		0.51	0.24	mg/Kg	1	✳	6010B	Total/NA
Silver	0.24	J	0.51	0.13	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.017	J	0.019	0.0062	mg/Kg	1	✳	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-9, 1-2.5'

Lab Sample ID: 500-214387-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.025	J	0.038	0.0068	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.015	J	0.038	0.0050	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.078		0.038	0.0064	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.38		0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.42		0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.53		0.038	0.0082	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.21		0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.20		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.44		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.062		0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.99		0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.025	J	0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.21		0.038	0.0099	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.0082	J	0.077	0.0070	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.43		0.038	0.0053	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.73		0.038	0.0076	mg/Kg	1	✳	8270D	Total/NA
Arsenic	4.2		1.1	0.38	mg/Kg	1	✳	6010B	Total/NA
Barium	55		1.1	0.13	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.24	B	0.22	0.040	mg/Kg	1	✳	6010B	Total/NA
Chromium	20	B	1.1	0.55	mg/Kg	1	✳	6010B	Total/NA
Lead	25		0.56	0.26	mg/Kg	1	✳	6010B	Total/NA
Silver	0.31	J	0.56	0.14	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.030		0.017	0.0058	mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: B-9, 8.5-10'

Lab Sample ID: 500-214387-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.037	J	0.039	0.0070	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.10		0.039	0.0065	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.12		0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.10		0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.12		0.039	0.0084	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.051		0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.051		0.039	0.012	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.14		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.013	J	0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.40		0.039	0.0072	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.056		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.044		0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.011	J	0.079	0.0072	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.016	J	0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.41		0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.27		0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Arsenic	3.3		1.1	0.38	mg/Kg	1	✳	6010B	Total/NA
Barium	49		1.1	0.13	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.14	J B	0.22	0.040	mg/Kg	1	✳	6010B	Total/NA
Chromium	22	B	1.1	0.55	mg/Kg	1	✳	6010B	Total/NA
Lead	10		0.56	0.26	mg/Kg	1	✳	6010B	Total/NA
Silver	0.27	J	0.56	0.14	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.017	J	0.019	0.0063	mg/Kg	1	✳	7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-9, 13.5-15'

Lab Sample ID: 500-214387-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.12		0.038	0.0069	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.0094	J	0.038	0.0051	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.48		0.038	0.0064	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.85		0.038	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.90		0.038	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene	0.94		0.038	0.0083	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.47		0.038	0.012	mg/Kg	1	✳	8270D	Total/NA
Benzo[k]fluoranthene	0.43		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Chrysene	0.84		0.038	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.11		0.038	0.0074	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	2.4		0.038	0.0071	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.15		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.42		0.038	0.010	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.0089	J	0.038	0.0059	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	1.4		0.038	0.0054	mg/Kg	1	✳	8270D	Total/NA
Pyrene	1.9		0.038	0.0077	mg/Kg	1	✳	8270D	Total/NA
Arsenic	3.7		1.0	0.34	mg/Kg	1	✳	6010B	Total/NA
Barium	61		1.0	0.11	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.081	J B	0.20	0.036	mg/Kg	1	✳	6010B	Total/NA
Chromium	23	B	1.0	0.50	mg/Kg	1	✳	6010B	Total/NA
Lead	11		0.50	0.23	mg/Kg	1	✳	6010B	Total/NA
Silver	0.29	J	0.50	0.13	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.016	J	0.019	0.0063	mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: B-8, 1-2.5'

Lab Sample ID: 500-214387-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.17		0.039	0.0070	mg/Kg	1	✳	8270D	Total/NA
Acenaphthylene	0.027	J	0.039	0.0051	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.83		0.039	0.0065	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	2.0		0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	1.9		0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Benzo[g,h,i]perylene	0.62		0.039	0.013	mg/Kg	1	✳	8270D	Total/NA
Chrysene	2.0		0.039	0.011	mg/Kg	1	✳	8270D	Total/NA
Dibenz(a,h)anthracene	0.29		0.039	0.0075	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.20		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.71		0.039	0.010	mg/Kg	1	✳	8270D	Total/NA
1-Methylnaphthalene	0.023	J	0.079	0.0095	mg/Kg	1	✳	8270D	Total/NA
2-Methylnaphthalene	0.022	J	0.079	0.0072	mg/Kg	1	✳	8270D	Total/NA
Naphthalene	0.023	J	0.039	0.0060	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	2.4		0.039	0.0054	mg/Kg	1	✳	8270D	Total/NA
Benzo[b]fluoranthene - DL	2.1		0.19	0.042	mg/Kg	5	✳	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.93		0.19	0.057	mg/Kg	5	✳	8270D	Total/NA
Fluoranthene - DL	5.2		0.19	0.036	mg/Kg	5	✳	8270D	Total/NA
Pyrene - DL	3.6		0.19	0.039	mg/Kg	5	✳	8270D	Total/NA
Arsenic	4.8		1.1	0.38	mg/Kg	1	✳	6010B	Total/NA
Barium	66		1.1	0.13	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.40	B	0.22	0.040	mg/Kg	1	✳	6010B	Total/NA
Chromium	23	B	1.1	0.55	mg/Kg	1	✳	6010B	Total/NA
Lead	36		0.56	0.26	mg/Kg	1	✳	6010B	Total/NA
Silver	0.41	J	0.56	0.14	mg/Kg	1	✳	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-8, 1-2.5' (Continued)

Lab Sample ID: 500-214387-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.045		0.019	0.0062	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: B-8, 8.5-10'

Lab Sample ID: 500-214387-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.020	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.054		0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.057		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.16		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.21		0.038	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.20		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.091		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.089		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.18		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.024	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.28		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.025	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.080		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.013	J	0.078	0.0071	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.032	J	0.038	0.0059	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.12		0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.29		0.038	0.0077	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.0		1.2	0.40	mg/Kg	1	☼	6010B	Total/NA
Barium	56		1.2	0.13	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.10	J B	0.23	0.042	mg/Kg	1	☼	6010B	Total/NA
Chromium	25	B	1.2	0.58	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.59	0.27	mg/Kg	1	☼	6010B	Total/NA
Silver	0.29	J	0.59	0.15	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.029		0.018	0.0060	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: B-7, 1-2.5'

Lab Sample ID: 500-214387-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.015	J	0.038	0.0069	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.0098	J	0.038	0.0051	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.067		0.038	0.0064	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.13		0.038	0.0052	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.11		0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.038	0.0083	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.045		0.038	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.053		0.038	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.15		0.038	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.038	0.0074	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.36		0.038	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.024	J	0.038	0.0054	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.0099	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.24		0.038	0.0053	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.26		0.038	0.0076	mg/Kg	1	☼	8270D	Total/NA
Arsenic	4.5		1.1	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	54		1.1	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	J B	0.22	0.039	mg/Kg	1	☼	6010B	Total/NA
Chromium	21	B	1.1	0.54	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-7, 1-2.5' (Continued)

Lab Sample ID: 500-214387-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	10		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Silver	0.24	J	0.54	0.14	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.017	J	0.018	0.0059	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: B-7, 8.5-10'

Lab Sample ID: 500-214387-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.072		0.037	0.0066	mg/Kg	1	☼	8270D	Total/NA
Acenaphthylene	0.14		0.037	0.0049	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.29		0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1.3		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1.5		0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.48		0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Chrysene	1.3		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.16		0.037	0.0071	mg/Kg	1	☼	8270D	Total/NA
Fluorene	0.12		0.037	0.0052	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.55		0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA
1-Methylnaphthalene	0.061	J	0.074	0.0090	mg/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	0.060	J	0.074	0.0068	mg/Kg	1	☼	8270D	Total/NA
Naphthalene	0.084		0.037	0.0057	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	1.4		0.037	0.0051	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	1.5		0.18	0.040	mg/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	0.65		0.18	0.054	mg/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	3.1		0.18	0.034	mg/Kg	5	☼	8270D	Total/NA
Pyrene - DL	2.3		0.18	0.037	mg/Kg	5	☼	8270D	Total/NA
Arsenic	4.5		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	59		1.1	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18	J B	0.21	0.038	mg/Kg	1	☼	6010B	Total/NA
Chromium	18	B	1.1	0.53	mg/Kg	1	☼	6010B	Total/NA
Lead	24		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA
Silver	0.26	J	0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.065		0.018	0.0061	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: B-3, 1-2.5'

Lab Sample ID: 500-214387-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0057	J	0.035	0.0046	mg/Kg	1	☼	8270D	Total/NA
Anthracene	0.013	J	0.035	0.0058	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.085		0.035	0.0047	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.11		0.035	0.0067	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.14		0.035	0.0075	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.052		0.035	0.011	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.060		0.035	0.010	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.13		0.035	0.0095	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.015	J	0.035	0.0067	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.23		0.035	0.0065	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.048		0.035	0.0090	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.080		0.035	0.0049	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.18		0.035	0.0069	mg/Kg	1	☼	8270D	Total/NA
Arsenic	2.3		1.0	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	21		1.0	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	J B	0.20	0.036	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Detection Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 1-2.5' (Continued)

Lab Sample ID: 500-214387-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	8.6	B	1.0	0.50	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.020		0.017	0.0056	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: B-3, 8.5-10'

Lab Sample ID: 500-214387-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.014	J	0.039	0.0073	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.0081	J	0.039	0.0055	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.012	J	0.039	0.0078	mg/Kg	1	☼	8270D	Total/NA
Arsenic	5.8		1.0	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	61		1.0	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.11	J B	0.21	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	26	B	1.0	0.52	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Silver	0.41	J	0.52	0.13	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.027		0.017	0.0058	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: B-2, 1-2.5'

Lab Sample ID: 500-214387-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	0.035	J	0.036	0.0049	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.035	J	0.036	0.0070	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.044		0.036	0.0078	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.021	J	0.036	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.019	J	0.036	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.047		0.036	0.0099	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.075		0.036	0.0067	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.017	J	0.036	0.0094	mg/Kg	1	☼	8270D	Total/NA
Phenanthrene	0.022	J	0.036	0.0051	mg/Kg	1	☼	8270D	Total/NA
Pyrene	0.060		0.036	0.0072	mg/Kg	1	☼	8270D	Total/NA
Arsenic	3.7		1.1	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	56		1.1	0.13	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.12	J B	0.23	0.041	mg/Kg	1	☼	6010B	Total/NA
Chromium	23	B	1.1	0.57	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA
Silver	0.26	J	0.57	0.15	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.024		0.018	0.0060	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: B-2, 5.5-7'

Lab Sample ID: 500-214387-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	0.018	J	0.037	0.0062	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	0.053		0.037	0.0050	mg/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	0.053		0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	0.062		0.037	0.0080	mg/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	0.028	J	0.037	0.012	mg/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	0.029	J	0.037	0.011	mg/Kg	1	☼	8270D	Total/NA
Chrysene	0.068		0.037	0.010	mg/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	0.0080	J	0.037	0.0072	mg/Kg	1	☼	8270D	Total/NA
Fluoranthene	0.14		0.037	0.0069	mg/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	0.023	J	0.037	0.0096	mg/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Euofins Chicago

Detection Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-2, 5.5-7' (Continued)

Lab Sample ID: 500-214387-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Phenanthrene	0.049		0.037	0.0052	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.11		0.037	0.0074	mg/Kg	1	✳	8270D	Total/NA
Arsenic	3.8		1.0	0.34	mg/Kg	1	✳	6010B	Total/NA
Barium	54		1.0	0.11	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.11	J B	0.20	0.036	mg/Kg	1	✳	6010B	Total/NA
Chromium	21	B	1.0	0.50	mg/Kg	1	✳	6010B	Total/NA
Lead	9.0		0.50	0.23	mg/Kg	1	✳	6010B	Total/NA
Silver	0.30	J	0.50	0.13	mg/Kg	1	✳	6010B	Total/NA
Mercury	0.029		0.018	0.0061	mg/Kg	1	✳	7471A	Total/NA

Client Sample ID: B-3, 15.5-17'

Lab Sample ID: 500-214387-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	0.0066	J	0.039	0.0052	mg/Kg	1	✳	8270D	Total/NA
Anthracene	0.021	J	0.039	0.0066	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]anthracene	0.027	J	0.039	0.0053	mg/Kg	1	✳	8270D	Total/NA
Benzo[a]pyrene	0.023	J	0.039	0.0076	mg/Kg	1	✳	8270D	Total/NA
Fluoranthene	0.056		0.039	0.0073	mg/Kg	1	✳	8270D	Total/NA
Fluorene	0.011	J	0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Phenanthrene	0.040		0.039	0.0055	mg/Kg	1	✳	8270D	Total/NA
Pyrene	0.046		0.039	0.0078	mg/Kg	1	✳	8270D	Total/NA
Arsenic	5.8		1.0	0.35	mg/Kg	1	✳	6010B	Total/NA
Barium	23		1.0	0.12	mg/Kg	1	✳	6010B	Total/NA
Cadmium	0.22	B	0.21	0.037	mg/Kg	1	✳	6010B	Total/NA
Chromium	14	B	1.0	0.51	mg/Kg	1	✳	6010B	Total/NA
Lead	9.4		0.51	0.24	mg/Kg	1	✳	6010B	Total/NA
Silver	0.17	J	0.51	0.13	mg/Kg	1	✳	6010B	Total/NA
Barium	0.17	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0046	J	0.0050	0.0020	mg/L	1		6010B	TCLP
Copper	0.014	J	0.025	0.010	mg/L	1		6010B	TCLP
Nickel	0.024	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.17		0.10	0.020	mg/L	1		6010B	TCLP
Mercury	0.020		0.019	0.0064	mg/Kg	1	✳	7471A	Total/NA
pH	7.4	HF	0.2	0.2	SU	1		9045D	Total/NA
Paint Filter	Pass				No Unit	1		9095B	Total/NA
Specific Gravity	2.1371				NONE	1		SM 2710F	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-214387-16

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Chicago

Method Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7471A	Mercury (CVAA)	SW846	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9045D	pH	SW846	TAL CHI
9095B	Paint Filter	SW846	TAL CHI
9251	Chlorine, Total	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL CHI
SM 2710F	Specific Gravity, Density	SM	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
1311	TCLP Zero Headspace Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
5050	Bomb Preparation Method for Solid Waste	SW846	TAL SAV
7470A	Preparation, Mercury	SW846	TAL CHI
7471A	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	TAL CHI

Protocol References:

- EPA = US Environmental Protection Agency
- SM = "Standard Methods For The Examination Of Water And Wastewater"
- SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

- TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
- TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-214387-1	B-10, 1-2.5'	Solid	03/29/22 09:30	03/31/22 10:00
500-214387-2	B-10, 8.5-10'	Solid	03/29/22 09:50	03/31/22 10:00
500-214387-3	B-10, 18.5-20'	Solid	03/29/22 10:30	03/31/22 10:00
500-214387-4	B-9, 1-2.5'	Solid	03/29/22 10:55	03/31/22 10:00
500-214387-5	B-9, 8.5-10'	Solid	03/29/22 11:15	03/31/22 10:00
500-214387-6	B-9, 13.5-15'	Solid	03/29/22 11:35	03/31/22 10:00
500-214387-7	B-8, 1-2.5'	Solid	03/29/22 12:25	03/31/22 10:00
500-214387-8	B-8, 8.5-10'	Solid	03/29/22 12:40	03/31/22 10:00
500-214387-9	B-7, 1-2.5'	Solid	03/29/22 13:30	03/31/22 10:00
500-214387-10	B-7, 8.5-10'	Solid	03/29/22 13:45	03/31/22 10:00
500-214387-11	B-3, 1-2.5'	Solid	03/29/22 14:40	03/31/22 10:00
500-214387-12	B-3, 8.5-10'	Solid	03/29/22 15:05	03/31/22 10:00
500-214387-13	B-2, 1-2.5'	Solid	03/29/22 15:50	03/31/22 10:00
500-214387-14	B-2, 5.5-7'	Solid	03/29/22 16:05	03/31/22 10:00
500-214387-15	B-3, 15.5-17'	Solid	03/29/22 15:30	03/31/22 10:00
500-214387-16	Trip Blank	Solid	03/29/22 00:00	03/31/22 10:00



Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-10, 1-2.5'

Lab Sample ID: 500-214387-1

Date Collected: 03/29/22 09:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0095		0.016	0.0095	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Bromobenzene	<0.023		0.065	0.023	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Bromochloromethane	<0.028		0.065	0.028	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Bromodichloromethane	<0.024		0.065	0.024	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Bromoform	<0.031		0.065	0.031	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Bromomethane	<0.052		0.19	0.052	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Carbon tetrachloride	<0.025		0.065	0.025	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Chlorobenzene	<0.025		0.065	0.025	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Chloroethane	<0.033		0.065	0.033	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Chloroform	<0.024		0.13	0.024	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Chloromethane	<0.021		0.065	0.021	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
2-Chlorotoluene	<0.020		0.065	0.020	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
4-Chlorotoluene	<0.023		0.065	0.023	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
cis-1,2-Dichloroethene	<0.026		0.065	0.026	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
cis-1,3-Dichloropropene	<0.027		0.065	0.027	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Dibromochloromethane	<0.032		0.065	0.032	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,2-Dibromo-3-Chloropropane	<0.13		0.32	0.13	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,2-Dibromoethane	<0.025		0.065	0.025	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Dibromomethane	<0.018		0.065	0.018	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,2-Dichlorobenzene	<0.022		0.065	0.022	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,3-Dichlorobenzene	<0.026		0.065	0.026	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,4-Dichlorobenzene	<0.024		0.065	0.024	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Dichlorodifluoromethane	<0.044		0.19	0.044	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,1-Dichloroethane	<0.027		0.065	0.027	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,2-Dichloroethane	<0.025		0.065	0.025	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,1-Dichloroethene	<0.025		0.065	0.025	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,2-Dichloropropane	<0.028		0.065	0.028	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,3-Dichloropropane	<0.023		0.065	0.023	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
2,2-Dichloropropane	<0.029		0.065	0.029	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,1-Dichloropropene	<0.019		0.065	0.019	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Ethylbenzene	<0.012		0.016	0.012	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Hexachlorobutadiene	<0.029		0.065	0.029	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Isopropylbenzene	<0.025		0.065	0.025	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Isopropyl ether	<0.018		0.065	0.018	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Methylene Chloride	<0.11		0.32	0.11	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Methyl tert-butyl ether	<0.026		0.065	0.026	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Naphthalene	<0.022		0.065	0.022	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
n-Butylbenzene	<0.025		0.065	0.025	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
N-Propylbenzene	<0.027		0.065	0.027	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
p-Isopropyltoluene	<0.023		0.065	0.023	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
sec-Butylbenzene	<0.026		0.065	0.026	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Styrene	<0.025		0.065	0.025	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
tert-Butylbenzene	<0.026		0.065	0.026	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,1,1,2-Tetrachloroethane	<0.030		0.065	0.030	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,1,2,2-Tetrachloroethane	<0.026		0.065	0.026	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Tetrachloroethene	<0.024		0.065	0.024	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Toluene	<0.0095		0.016	0.0095	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
trans-1,2-Dichloroethene	<0.023		0.065	0.023	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
trans-1,3-Dichloropropene	<0.023		0.065	0.023	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-10, 1-2.5'

Lab Sample ID: 500-214387-1

Date Collected: 03/29/22 09:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.030		0.065	0.030	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,2,4-Trichlorobenzene	<0.022		0.065	0.022	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,1,1-Trichloroethane	<0.025		0.065	0.025	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,1,2-Trichloroethane	<0.023		0.065	0.023	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Trichloroethene	<0.011		0.032	0.011	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Trichlorofluoromethane	<0.028		0.065	0.028	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,2,3-Trichloropropane	<0.027		0.13	0.027	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,2,4-Trimethylbenzene	<0.023		0.065	0.023	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
1,3,5-Trimethylbenzene	<0.025		0.065	0.025	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Vinyl chloride	<0.017		0.065	0.017	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Xylenes, Total	<0.014		0.032	0.014	mg/Kg	✳	04/03/22 18:39	04/04/22 13:47	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 126				04/03/22 18:39	04/04/22 13:47	50
Toluene-d8 (Surr)	101		75 - 120				04/03/22 18:39	04/04/22 13:47	50
4-Bromofluorobenzene (Surr)	92		72 - 124				04/03/22 18:39	04/04/22 13:47	50
Dibromofluoromethane (Surr)	108		75 - 120				04/03/22 18:39	04/04/22 13:47	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.052		0.036	0.0066	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Acenaphthylene	0.023	J	0.036	0.0048	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Anthracene	0.21		0.036	0.0061	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Benzo[a]anthracene	0.60		0.036	0.0049	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Benzo[a]pyrene	0.60		0.036	0.0071	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Benzo[b]fluoranthene	0.73		0.036	0.0079	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Benzo[g,h,i]perylene	0.29		0.036	0.012	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Benzo[k]fluoranthene	0.26		0.036	0.011	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Chrysene	0.64		0.036	0.0099	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Dibenz(a,h)anthracene	0.034	J	0.036	0.0070	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Fluoranthene	1.5		0.036	0.0068	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Fluorene	0.060		0.036	0.0051	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Indeno[1,2,3-cd]pyrene	0.27		0.036	0.0095	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
1-Methylnaphthalene	0.019	J	0.074	0.0089	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
2-Methylnaphthalene	0.023	J	0.074	0.0067	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Naphthalene	0.021	J	0.036	0.0056	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Phenanthrene	0.69		0.036	0.0051	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Pyrene	1.1		0.036	0.0072	mg/Kg	✳	04/12/22 06:34	04/14/22 17:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	84		43 - 145				04/12/22 06:34	04/14/22 17:50	1
Nitrobenzene-d5 (Surr)	69		37 - 147				04/12/22 06:34	04/14/22 17:50	1
Terphenyl-d14 (Surr)	92		42 - 157				04/12/22 06:34	04/14/22 17:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0074		0.019	0.0074	mg/Kg	✳	04/11/22 06:40	04/13/22 21:14	1
PCB-1221	<0.0074		0.019	0.0074	mg/Kg	✳	04/11/22 06:40	04/13/22 21:14	1
PCB-1232	<0.0051		0.019	0.0051	mg/Kg	✳	04/11/22 06:40	04/13/22 21:14	1
PCB-1242	<0.0073		0.019	0.0073	mg/Kg	✳	04/11/22 06:40	04/13/22 21:14	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-10, 1-2.5'

Lab Sample ID: 500-214387-1

Date Collected: 03/29/22 09:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 87.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0090		0.019	0.0090	mg/Kg	☼	04/11/22 06:40	04/13/22 21:14	1
PCB-1254	<0.0064		0.019	0.0064	mg/Kg	☼	04/11/22 06:40	04/13/22 21:14	1
PCB-1260	<0.0071		0.019	0.0071	mg/Kg	☼	04/11/22 06:40	04/13/22 21:14	1
Polychlorinated biphenyls, Total	<0.0051		0.019	0.0051	mg/Kg	☼	04/11/22 06:40	04/13/22 21:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	98		49 - 129	04/11/22 06:40	04/13/22 21:14	1
DCB Decachlorobiphenyl	100		37 - 121	04/11/22 06:40	04/13/22 21:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7		1.1	0.36	mg/Kg	☼	04/11/22 08:00	04/11/22 16:02	1
Barium	54		1.1	0.12	mg/Kg	☼	04/11/22 08:00	04/11/22 16:02	1
Cadmium	0.18	J B	0.21	0.038	mg/Kg	☼	04/11/22 08:00	04/11/22 16:02	1
Chromium	19	B	1.1	0.52	mg/Kg	☼	04/11/22 08:00	04/11/22 16:02	1
Lead	13		0.53	0.24	mg/Kg	☼	04/11/22 08:00	04/11/22 16:02	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	04/11/22 08:00	04/11/22 16:02	1
Silver	0.30	J	0.53	0.14	mg/Kg	☼	04/11/22 08:00	04/11/22 16:02	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.018	0.0060	mg/Kg	☼	04/08/22 13:40	04/11/22 10:37	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-10, 8.5-10'

Lab Sample ID: 500-214387-2

Date Collected: 03/29/22 09:50

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.017	0.010	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Bromobenzene	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Bromochloromethane	<0.030	*+	0.069	0.030	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Bromodichloromethane	<0.026		0.069	0.026	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Bromoform	<0.034		0.069	0.034	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Bromomethane	<0.055	*+	0.21	0.055	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Carbon tetrachloride	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Chlorobenzene	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Chloroethane	<0.035		0.069	0.035	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Chloroform	<0.026		0.14	0.026	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Chloromethane	<0.022	*-	0.069	0.022	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
2-Chlorotoluene	<0.022		0.069	0.022	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
4-Chlorotoluene	<0.024		0.069	0.024	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
cis-1,2-Dichloroethene	<0.028		0.069	0.028	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
cis-1,3-Dichloropropene	<0.029		0.069	0.029	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Dibromochloromethane	<0.034		0.069	0.034	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,2-Dibromo-3-Chloropropane	<0.14		0.35	0.14	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,2-Dibromoethane	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Dibromomethane	<0.019		0.069	0.019	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,2-Dichlorobenzene	<0.023		0.069	0.023	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,3-Dichlorobenzene	<0.028		0.069	0.028	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,4-Dichlorobenzene	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Dichlorodifluoromethane	<0.047	*-	0.21	0.047	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,1-Dichloroethane	<0.028		0.069	0.028	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,2-Dichloroethane	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,1-Dichloroethene	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,2-Dichloropropane	<0.030		0.069	0.030	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,3-Dichloropropane	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
2,2-Dichloropropane	<0.031		0.069	0.031	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,1-Dichloropropene	<0.021		0.069	0.021	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Ethylbenzene	<0.013		0.017	0.013	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Hexachlorobutadiene	<0.031		0.069	0.031	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Isopropylbenzene	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Isopropyl ether	<0.019		0.069	0.019	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Methylene Chloride	<0.11		0.35	0.11	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Methyl tert-butyl ether	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Naphthalene	<0.023		0.069	0.023	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
n-Butylbenzene	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
N-Propylbenzene	<0.029		0.069	0.029	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
p-Isopropyltoluene	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
sec-Butylbenzene	<0.028		0.069	0.028	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Styrene	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
tert-Butylbenzene	<0.028		0.069	0.028	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,1,1,2-Tetrachloroethane	<0.032		0.069	0.032	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,1,2,2-Tetrachloroethane	<0.028		0.069	0.028	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Tetrachloroethene	<0.026		0.069	0.026	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Toluene	<0.010		0.017	0.010	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
trans-1,2-Dichloroethene	<0.024		0.069	0.024	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
trans-1,3-Dichloropropene	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-10, 8.5-10'

Lab Sample ID: 500-214387-2

Date Collected: 03/29/22 09:50

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.032		0.069	0.032	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,2,4-Trichlorobenzene	<0.024		0.069	0.024	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,1,1-Trichloroethane	<0.026		0.069	0.026	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,1,2-Trichloroethane	<0.024		0.069	0.024	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Trichloroethene	<0.011		0.035	0.011	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Trichlorofluoromethane	<0.030		0.069	0.030	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,2,3-Trichloropropane	<0.029		0.14	0.029	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,2,4-Trimethylbenzene	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
1,3,5-Trimethylbenzene	<0.026		0.069	0.026	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Vinyl chloride	<0.018	*	0.069	0.018	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50
Xylenes, Total	<0.015		0.035	0.015	mg/Kg	✳	03/29/22 09:50	04/04/22 14:13	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124	03/29/22 09:50	04/04/22 14:13	50
Dibromofluoromethane (Surr)	106		75 - 120	03/29/22 09:50	04/04/22 14:13	50
1,2-Dichloroethane-d4 (Surr)	108		75 - 126	03/29/22 09:50	04/04/22 14:13	50
Toluene-d8 (Surr)	102		75 - 120	03/29/22 09:50	04/04/22 14:13	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0070		0.038	0.0070	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Acenaphthylene	<0.0051		0.038	0.0051	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Anthracene	0.010	J	0.038	0.0065	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Benzo[a]anthracene	<0.0052		0.038	0.0052	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Benzo[a]pyrene	<0.0075		0.038	0.0075	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Benzo[b]fluoranthene	0.014	J	0.038	0.0084	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Chrysene	<0.011		0.038	0.011	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Dibenz(a,h)anthracene	<0.0075		0.038	0.0075	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Fluoranthene	0.090		0.038	0.0072	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Indeno[1,2,3-cd]pyrene	<0.010		0.038	0.010	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
1-Methylnaphthalene	<0.0094		0.078	0.0094	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Naphthalene	<0.0060		0.038	0.0060	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Phenanthrene	0.018	J	0.038	0.0054	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1
Pyrene	0.070		0.038	0.0077	mg/Kg	✳	04/12/22 06:34	04/13/22 10:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	78		43 - 145	04/12/22 06:34	04/13/22 10:11	1
Nitrobenzene-d5 (Surr)	56		37 - 147	04/12/22 06:34	04/13/22 10:11	1
Terphenyl-d14 (Surr)	94		42 - 157	04/12/22 06:34	04/13/22 10:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0077		0.020	0.0077	mg/Kg	✳	04/11/22 06:40	04/13/22 21:30	1
PCB-1221	<0.0077		0.020	0.0077	mg/Kg	✳	04/11/22 06:40	04/13/22 21:30	1
PCB-1232	<0.0053		0.020	0.0053	mg/Kg	✳	04/11/22 06:40	04/13/22 21:30	1
PCB-1242	<0.0077		0.020	0.0077	mg/Kg	✳	04/11/22 06:40	04/13/22 21:30	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-10, 8.5-10'

Lab Sample ID: 500-214387-2

Date Collected: 03/29/22 09:50

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0093		0.020	0.0093	mg/Kg	☼	04/11/22 06:40	04/13/22 21:30	1
PCB-1254	<0.0067		0.020	0.0067	mg/Kg	☼	04/11/22 06:40	04/13/22 21:30	1
PCB-1260	<0.0074		0.020	0.0074	mg/Kg	☼	04/11/22 06:40	04/13/22 21:30	1
Polychlorinated biphenyls, Total	<0.0053		0.020	0.0053	mg/Kg	☼	04/11/22 06:40	04/13/22 21:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	79		49 - 129	04/11/22 06:40	04/13/22 21:30	1
DCB Decachlorobiphenyl	91		37 - 121	04/11/22 06:40	04/13/22 21:30	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		1.1	0.37	mg/Kg	☼	04/11/22 08:00	04/11/22 16:25	1
Barium	56		1.1	0.12	mg/Kg	☼	04/11/22 08:00	04/11/22 16:25	1
Cadmium	0.091	J B	0.22	0.039	mg/Kg	☼	04/11/22 08:00	04/11/22 16:25	1
Chromium	21	B	1.1	0.54	mg/Kg	☼	04/11/22 08:00	04/11/22 16:25	1
Lead	8.8		0.55	0.25	mg/Kg	☼	04/11/22 08:00	04/11/22 16:25	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	04/11/22 08:00	04/11/22 16:25	1
Silver	0.24	J	0.55	0.14	mg/Kg	☼	04/11/22 08:00	04/11/22 16:25	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0063	mg/Kg	☼	04/08/22 13:40	04/11/22 10:39	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-10, 18.5-20'

Lab Sample ID: 500-214387-3

Date Collected: 03/29/22 10:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0099		0.017	0.0099	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Bromobenzene	<0.024		0.068	0.024	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Bromochloromethane	<0.029	*+	0.068	0.029	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Bromodichloromethane	<0.025		0.068	0.025	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Bromoform	<0.033		0.068	0.033	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Bromomethane	<0.054	*+	0.20	0.054	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Carbon tetrachloride	<0.026		0.068	0.026	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Chlorobenzene	<0.026		0.068	0.026	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Chloroethane	<0.034		0.068	0.034	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Chloroform	<0.025		0.14	0.025	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Chloromethane	<0.022	*-	0.068	0.022	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
2-Chlorotoluene	<0.021		0.068	0.021	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
4-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
cis-1,3-Dichloropropene	<0.028		0.068	0.028	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Dibromochloromethane	<0.033		0.068	0.033	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,2-Dibromo-3-Chloropropane	<0.14		0.34	0.14	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,2-Dibromoethane	<0.026		0.068	0.026	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Dibromomethane	<0.018		0.068	0.018	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,2-Dichlorobenzene	<0.023		0.068	0.023	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,3-Dichlorobenzene	<0.027		0.068	0.027	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,4-Dichlorobenzene	<0.025		0.068	0.025	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Dichlorodifluoromethane	<0.046	*-	0.20	0.046	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,1-Dichloroethane	<0.028		0.068	0.028	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,2-Dichloroethane	<0.027		0.068	0.027	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,1-Dichloroethene	<0.027		0.068	0.027	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,2-Dichloropropane	<0.029		0.068	0.029	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,3-Dichloropropane	<0.025		0.068	0.025	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
2,2-Dichloropropane	<0.030		0.068	0.030	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,1-Dichloropropene	<0.020		0.068	0.020	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Hexachlorobutadiene	<0.030		0.068	0.030	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Isopropylbenzene	<0.026		0.068	0.026	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Isopropyl ether	<0.019		0.068	0.019	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Methyl tert-butyl ether	<0.027		0.068	0.027	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Naphthalene	<0.023		0.068	0.023	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
n-Butylbenzene	<0.026		0.068	0.026	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
N-Propylbenzene	<0.028		0.068	0.028	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
p-Isopropyltoluene	<0.025		0.068	0.025	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
sec-Butylbenzene	<0.027		0.068	0.027	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Styrene	<0.026		0.068	0.026	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
tert-Butylbenzene	<0.027		0.068	0.027	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,1,1,2-Tetrachloroethane	<0.031		0.068	0.031	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
1,1,2,2-Tetrachloroethane	<0.027		0.068	0.027	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Tetrachloroethene	<0.025		0.068	0.025	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
Toluene	<0.010		0.017	0.010	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50
trans-1,3-Dichloropropene	<0.025		0.068	0.025	mg/Kg	✱	03/29/22 10:30	04/04/22 14:40	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-10, 18.5-20'

Lab Sample ID: 500-214387-3

Date Collected: 03/29/22 10:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	✳	03/29/22 10:30	04/04/22 14:40	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	✳	03/29/22 10:30	04/04/22 14:40	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	✳	03/29/22 10:30	04/04/22 14:40	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	✳	03/29/22 10:30	04/04/22 14:40	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	✳	03/29/22 10:30	04/04/22 14:40	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	✳	03/29/22 10:30	04/04/22 14:40	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	✳	03/29/22 10:30	04/04/22 14:40	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	✳	03/29/22 10:30	04/04/22 14:40	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	✳	03/29/22 10:30	04/04/22 14:40	50
Vinyl chloride	<0.018	*	0.068	0.018	mg/Kg	✳	03/29/22 10:30	04/04/22 14:40	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	✳	03/29/22 10:30	04/04/22 14:40	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		72 - 124	03/29/22 10:30	04/04/22 14:40	50
Dibromofluoromethane (Surr)	109		75 - 120	03/29/22 10:30	04/04/22 14:40	50
1,2-Dichloroethane-d4 (Surr)	110		75 - 126	03/29/22 10:30	04/04/22 14:40	50
Toluene-d8 (Surr)	104		75 - 120	03/29/22 10:30	04/04/22 14:40	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.038	0.0068	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Acenaphthylene	<0.0050		0.038	0.0050	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Anthracene	<0.0064		0.038	0.0064	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Benzo[a]anthracene	<0.0051		0.038	0.0051	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Benzo[a]pyrene	<0.0074		0.038	0.0074	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Benzo[b]fluoranthene	<0.0082		0.038	0.0082	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Benzo[g,h,i]perylene	<0.012		0.038	0.012	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Benzo[k]fluoranthene	<0.011		0.038	0.011	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Chrysene	<0.010		0.038	0.010	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Dibenz(a,h)anthracene	<0.0074		0.038	0.0074	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Fluoranthene	<0.0071		0.038	0.0071	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Fluorene	<0.0054		0.038	0.0054	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Indeno[1,2,3-cd]pyrene	<0.0099		0.038	0.0099	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
1-Methylnaphthalene	<0.0093		0.077	0.0093	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
2-Methylnaphthalene	<0.0070		0.077	0.0070	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Phenanthrene	<0.0053		0.038	0.0053	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1
Pyrene	<0.0076		0.038	0.0076	mg/Kg	✳	04/12/22 06:34	04/13/22 10:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	84		43 - 145	04/12/22 06:34	04/13/22 10:33	1
Nitrobenzene-d5 (Surr)	55		37 - 147	04/12/22 06:34	04/13/22 10:33	1
Terphenyl-d14 (Surr)	94		42 - 157	04/12/22 06:34	04/13/22 10:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		1.0	0.35	mg/Kg	✳	04/11/22 08:00	04/11/22 16:28	1
Barium	48		1.0	0.12	mg/Kg	✳	04/11/22 08:00	04/11/22 16:28	1
Cadmium	0.075	J B	0.20	0.037	mg/Kg	✳	04/11/22 08:00	04/11/22 16:28	1
Chromium	20	B	1.0	0.50	mg/Kg	✳	04/11/22 08:00	04/11/22 16:28	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-10, 18.5-20'

Lab Sample ID: 500-214387-3

Date Collected: 03/29/22 10:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.51	0.24	mg/Kg	☼	04/11/22 08:00	04/11/22 16:28	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	04/11/22 08:00	04/11/22 16:28	1
Silver	0.24	J	0.51	0.13	mg/Kg	☼	04/11/22 08:00	04/11/22 16:28	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0062	mg/Kg	☼	04/08/22 13:40	04/11/22 10:41	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-9, 1-2.5'

Lab Sample ID: 500-214387-4

Date Collected: 03/29/22 10:55

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0098		0.017	0.0098	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Bromobenzene	<0.024		0.067	0.024	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Bromochloromethane	<0.029	*+	0.067	0.029	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Bromodichloromethane	<0.025		0.067	0.025	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Bromoform	<0.033		0.067	0.033	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Bromomethane	<0.054	*+	0.20	0.054	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Carbon tetrachloride	<0.026		0.067	0.026	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Chlorobenzene	<0.026		0.067	0.026	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Chloroethane	<0.034		0.067	0.034	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Chloroform	<0.025		0.13	0.025	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Chloromethane	<0.022	*-	0.067	0.022	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
2-Chlorotoluene	<0.021		0.067	0.021	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
4-Chlorotoluene	<0.024		0.067	0.024	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
cis-1,2-Dichloroethene	<0.028		0.067	0.028	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
cis-1,3-Dichloropropene	<0.028		0.067	0.028	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Dibromochloromethane	<0.033		0.067	0.033	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,2-Dibromo-3-Chloropropane	<0.13		0.34	0.13	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,2-Dibromoethane	<0.026		0.067	0.026	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Dibromomethane	<0.018		0.067	0.018	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,2-Dichlorobenzene	<0.023		0.067	0.023	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,3-Dichlorobenzene	<0.027		0.067	0.027	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,4-Dichlorobenzene	<0.025		0.067	0.025	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Dichlorodifluoromethane	<0.045	*-	0.20	0.045	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,1-Dichloroethane	<0.028		0.067	0.028	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,2-Dichloroethane	<0.026		0.067	0.026	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,1-Dichloroethene	<0.026		0.067	0.026	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,2-Dichloropropane	<0.029		0.067	0.029	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,3-Dichloropropane	<0.024		0.067	0.024	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
2,2-Dichloropropane	<0.030		0.067	0.030	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,1-Dichloropropene	<0.020		0.067	0.020	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Hexachlorobutadiene	<0.030		0.067	0.030	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Isopropylbenzene	<0.026		0.067	0.026	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Isopropyl ether	<0.019		0.067	0.019	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Methyl tert-butyl ether	<0.027		0.067	0.027	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Naphthalene	<0.023		0.067	0.023	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
n-Butylbenzene	<0.026		0.067	0.026	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
N-Propylbenzene	<0.028		0.067	0.028	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
p-Isopropyltoluene	<0.024		0.067	0.024	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
sec-Butylbenzene	<0.027		0.067	0.027	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Styrene	<0.026		0.067	0.026	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
tert-Butylbenzene	<0.027		0.067	0.027	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,1,1,2-Tetrachloroethane	<0.031		0.067	0.031	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,1,2,2-Tetrachloroethane	<0.027		0.067	0.027	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Tetrachloroethene	<0.025		0.067	0.025	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Toluene	<0.0099		0.017	0.0099	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
trans-1,2-Dichloroethene	<0.024		0.067	0.024	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
trans-1,3-Dichloropropene	<0.024		0.067	0.024	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-9, 1-2.5'

Lab Sample ID: 500-214387-4

Date Collected: 03/29/22 10:55

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.031		0.067	0.031	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,2,4-Trichlorobenzene	<0.023		0.067	0.023	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,1,1-Trichloroethane	<0.026		0.067	0.026	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,1,2-Trichloroethane	<0.024		0.067	0.024	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Trichlorofluoromethane	<0.029		0.067	0.029	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,2,3-Trichloropropane	<0.028		0.13	0.028	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,2,4-Trimethylbenzene	<0.024		0.067	0.024	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
1,3,5-Trimethylbenzene	<0.026		0.067	0.026	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Vinyl chloride	<0.018	*	0.067	0.018	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	✱	03/29/22 10:55	04/04/22 15:06	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124	03/29/22 10:55	04/04/22 15:06	50
Dibromofluoromethane (Surr)	113		75 - 120	03/29/22 10:55	04/04/22 15:06	50
1,2-Dichloroethane-d4 (Surr)	109		75 - 126	03/29/22 10:55	04/04/22 15:06	50
Toluene-d8 (Surr)	104		75 - 120	03/29/22 10:55	04/04/22 15:06	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.025	J	0.038	0.0068	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Acenaphthylene	0.015	J	0.038	0.0050	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Anthracene	0.078		0.038	0.0064	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Benzo[a]anthracene	0.38		0.038	0.0051	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Benzo[a]pyrene	0.42		0.038	0.0074	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Benzo[b]fluoranthene	0.53		0.038	0.0082	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Benzo[g,h,i]perylene	0.21		0.038	0.012	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Benzo[k]fluoranthene	0.20		0.038	0.011	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Chrysene	0.44		0.038	0.010	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Dibenz(a,h)anthracene	0.062		0.038	0.0074	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Fluoranthene	0.99		0.038	0.0071	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Fluorene	0.025	J	0.038	0.0054	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Indeno[1,2,3-cd]pyrene	0.21		0.038	0.0099	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
1-Methylnaphthalene	<0.0093		0.077	0.0093	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
2-Methylnaphthalene	0.0082	J	0.077	0.0070	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Naphthalene	0.012	J	0.038	0.0059	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Phenanthrene	0.43		0.038	0.0053	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1
Pyrene	0.73		0.038	0.0076	mg/Kg	✱	04/12/22 06:34	04/14/22 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	77		43 - 145	04/12/22 06:34	04/14/22 18:14	1
Nitrobenzene-d5 (Surr)	61		37 - 147	04/12/22 06:34	04/14/22 18:14	1
Terphenyl-d14 (Surr)	88		42 - 157	04/12/22 06:34	04/14/22 18:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0074		0.019	0.0074	mg/Kg	✱	04/11/22 06:40	04/13/22 21:46	1
PCB-1221	<0.0074		0.019	0.0074	mg/Kg	✱	04/11/22 06:40	04/13/22 21:46	1
PCB-1232	<0.0051		0.019	0.0051	mg/Kg	✱	04/11/22 06:40	04/13/22 21:46	1
PCB-1242	<0.0074		0.019	0.0074	mg/Kg	✱	04/11/22 06:40	04/13/22 21:46	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-9, 1-2.5'

Lab Sample ID: 500-214387-4

Date Collected: 03/29/22 10:55

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0090		0.019	0.0090	mg/Kg	☼	04/11/22 06:40	04/13/22 21:46	1
PCB-1254	<0.0064		0.019	0.0064	mg/Kg	☼	04/11/22 06:40	04/13/22 21:46	1
PCB-1260	<0.0071		0.019	0.0071	mg/Kg	☼	04/11/22 06:40	04/13/22 21:46	1
Polychlorinated biphenyls, Total	<0.0051		0.019	0.0051	mg/Kg	☼	04/11/22 06:40	04/13/22 21:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		49 - 129				04/11/22 06:40	04/13/22 21:46	1
DCB Decachlorobiphenyl	89		37 - 121				04/11/22 06:40	04/13/22 21:46	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		1.1	0.38	mg/Kg	☼	04/11/22 08:00	04/11/22 16:31	1
Barium	55		1.1	0.13	mg/Kg	☼	04/11/22 08:00	04/11/22 16:31	1
Cadmium	0.24	B	0.22	0.040	mg/Kg	☼	04/11/22 08:00	04/11/22 16:31	1
Chromium	20	B	1.1	0.55	mg/Kg	☼	04/11/22 08:00	04/11/22 16:31	1
Lead	25		0.56	0.26	mg/Kg	☼	04/11/22 08:00	04/11/22 16:31	1
Selenium	<0.66		1.1	0.66	mg/Kg	☼	04/11/22 08:00	04/11/22 16:31	1
Silver	0.31	J	0.56	0.14	mg/Kg	☼	04/11/22 08:00	04/11/22 16:31	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.017	0.0058	mg/Kg	☼	04/08/22 13:40	04/11/22 10:42	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-9, 8.5-10'

Lab Sample ID: 500-214387-5

Date Collected: 03/29/22 11:15

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.017	0.010	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Bromobenzene	<0.024		0.068	0.024	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Bromochloromethane	<0.029	*+	0.068	0.029	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Bromodichloromethane	<0.025		0.068	0.025	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Bromoform	<0.033		0.068	0.033	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Bromomethane	<0.054	*+	0.21	0.054	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Carbon tetrachloride	<0.026		0.068	0.026	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Chlorobenzene	<0.026		0.068	0.026	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Chloroethane	<0.034		0.068	0.034	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Chloroform	<0.025		0.14	0.025	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Chloromethane	<0.022	*-	0.068	0.022	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
2-Chlorotoluene	<0.021		0.068	0.021	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
4-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
cis-1,3-Dichloropropene	<0.028		0.068	0.028	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Dibromochloromethane	<0.033		0.068	0.033	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,2-Dibromo-3-Chloropropane	<0.14		0.34	0.14	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,2-Dibromoethane	<0.026		0.068	0.026	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Dibromomethane	<0.018		0.068	0.018	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,2-Dichlorobenzene	<0.023		0.068	0.023	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,3-Dichlorobenzene	<0.027		0.068	0.027	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,4-Dichlorobenzene	<0.025		0.068	0.025	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Dichlorodifluoromethane	<0.046	*-	0.21	0.046	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,1-Dichloroethane	<0.028		0.068	0.028	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,2-Dichloroethane	<0.027		0.068	0.027	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,1-Dichloroethene	<0.027		0.068	0.027	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,2-Dichloropropane	<0.029		0.068	0.029	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,3-Dichloropropane	<0.025		0.068	0.025	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
2,2-Dichloropropane	<0.030		0.068	0.030	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,1-Dichloropropene	<0.020		0.068	0.020	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Ethylbenzene	<0.013		0.017	0.013	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Hexachlorobutadiene	<0.030		0.068	0.030	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Isopropylbenzene	<0.026		0.068	0.026	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Isopropyl ether	<0.019		0.068	0.019	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Methyl tert-butyl ether	<0.027		0.068	0.027	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Naphthalene	<0.023		0.068	0.023	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
n-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
N-Propylbenzene	<0.028		0.068	0.028	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
p-Isopropyltoluene	<0.025		0.068	0.025	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
sec-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Styrene	<0.026		0.068	0.026	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
tert-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,1,1,2-Tetrachloroethane	<0.032		0.068	0.032	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
1,1,2,2-Tetrachloroethane	<0.027		0.068	0.027	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Tetrachloroethene	<0.025		0.068	0.025	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
Toluene	<0.010		0.017	0.010	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50
trans-1,3-Dichloropropene	<0.025		0.068	0.025	mg/Kg	☼	03/29/22 11:15	04/04/22 15:33	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-9, 8.5-10'

Lab Sample ID: 500-214387-5

Date Collected: 03/29/22 11:15

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	✳	03/29/22 11:15	04/04/22 15:33	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	✳	03/29/22 11:15	04/04/22 15:33	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	✳	03/29/22 11:15	04/04/22 15:33	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	✳	03/29/22 11:15	04/04/22 15:33	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	✳	03/29/22 11:15	04/04/22 15:33	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	✳	03/29/22 11:15	04/04/22 15:33	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	✳	03/29/22 11:15	04/04/22 15:33	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	✳	03/29/22 11:15	04/04/22 15:33	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	✳	03/29/22 11:15	04/04/22 15:33	50
Vinyl chloride	<0.018	*	0.068	0.018	mg/Kg	✳	03/29/22 11:15	04/04/22 15:33	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	✳	03/29/22 11:15	04/04/22 15:33	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124				03/29/22 11:15	04/04/22 15:33	50
Dibromofluoromethane (Surr)	101		75 - 120				03/29/22 11:15	04/04/22 15:33	50
1,2-Dichloroethane-d4 (Surr)	111		75 - 126				03/29/22 11:15	04/04/22 15:33	50
Toluene-d8 (Surr)	105		75 - 120				03/29/22 11:15	04/04/22 15:33	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.037	J	0.039	0.0070	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Acenaphthylene	<0.0051		0.039	0.0051	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Anthracene	0.10		0.039	0.0065	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Benzo[a]anthracene	0.12		0.039	0.0053	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Benzo[a]pyrene	0.10		0.039	0.0076	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Benzo[b]fluoranthene	0.12		0.039	0.0084	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Benzo[g,h,i]perylene	0.051		0.039	0.013	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Benzo[k]fluoranthene	0.051		0.039	0.012	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Chrysene	0.14		0.039	0.011	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Dibenz(a,h)anthracene	0.013	J	0.039	0.0075	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Fluoranthene	0.40		0.039	0.0072	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Fluorene	0.056		0.039	0.0055	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Indeno[1,2,3-cd]pyrene	0.044		0.039	0.010	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
1-Methylnaphthalene	<0.0095		0.079	0.0095	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
2-Methylnaphthalene	0.011	J	0.079	0.0072	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Naphthalene	0.016	J	0.039	0.0060	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Phenanthrene	0.41		0.039	0.0054	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Pyrene	0.27		0.039	0.0078	mg/Kg	✳	04/12/22 06:34	04/14/22 18:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	81		43 - 145				04/12/22 06:34	04/14/22 18:38	1
Nitrobenzene-d5 (Surr)	68		37 - 147				04/12/22 06:34	04/14/22 18:38	1
Terphenyl-d14 (Surr)	92		42 - 157				04/12/22 06:34	04/14/22 18:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0074		0.019	0.0074	mg/Kg	✳	04/11/22 06:40	04/13/22 22:02	1
PCB-1221	<0.0074		0.019	0.0074	mg/Kg	✳	04/11/22 06:40	04/13/22 22:02	1
PCB-1232	<0.0051		0.019	0.0051	mg/Kg	✳	04/11/22 06:40	04/13/22 22:02	1
PCB-1242	<0.0074		0.019	0.0074	mg/Kg	✳	04/11/22 06:40	04/13/22 22:02	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-9, 8.5-10'

Lab Sample ID: 500-214387-5

Date Collected: 03/29/22 11:15

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0090		0.019	0.0090	mg/Kg	✱	04/11/22 06:40	04/13/22 22:02	1
PCB-1254	<0.0064		0.019	0.0064	mg/Kg	✱	04/11/22 06:40	04/13/22 22:02	1
PCB-1260	<0.0071		0.019	0.0071	mg/Kg	✱	04/11/22 06:40	04/13/22 22:02	1
Polychlorinated biphenyls, Total	<0.0051		0.019	0.0051	mg/Kg	✱	04/11/22 06:40	04/13/22 22:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		49 - 129	04/11/22 06:40	04/13/22 22:02	1
DCB Decachlorobiphenyl	104		37 - 121	04/11/22 06:40	04/13/22 22:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.3		1.1	0.38	mg/Kg	✱	04/11/22 08:00	04/11/22 16:35	1
Barium	49		1.1	0.13	mg/Kg	✱	04/11/22 08:00	04/11/22 16:35	1
Cadmium	0.14	J B	0.22	0.040	mg/Kg	✱	04/11/22 08:00	04/11/22 16:35	1
Chromium	22	B	1.1	0.55	mg/Kg	✱	04/11/22 08:00	04/11/22 16:35	1
Lead	10		0.56	0.26	mg/Kg	✱	04/11/22 08:00	04/11/22 16:35	1
Selenium	<0.65		1.1	0.65	mg/Kg	✱	04/11/22 08:00	04/11/22 16:35	1
Silver	0.27	J	0.56	0.14	mg/Kg	✱	04/11/22 08:00	04/11/22 16:35	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.019	0.0063	mg/Kg	✱	04/08/22 13:40	04/11/22 10:44	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-9, 13.5-15'

Lab Sample ID: 500-214387-6

Date Collected: 03/29/22 11:35

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.017	0.010	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Bromobenzene	<0.025		0.069	0.025	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Bromochloromethane	<0.030	*+	0.069	0.030	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Bromodichloromethane	<0.026		0.069	0.026	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Bromoform	<0.034		0.069	0.034	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Bromomethane	<0.055	*+	0.21	0.055	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Carbon tetrachloride	<0.027		0.069	0.027	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Chlorobenzene	<0.027		0.069	0.027	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Chloroethane	<0.035		0.069	0.035	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Chloroform	<0.026		0.14	0.026	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Chloromethane	<0.022	*-	0.069	0.022	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
2-Chlorotoluene	<0.022		0.069	0.022	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
4-Chlorotoluene	<0.024		0.069	0.024	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
cis-1,2-Dichloroethene	<0.028		0.069	0.028	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
cis-1,3-Dichloropropene	<0.029		0.069	0.029	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Dibromochloromethane	<0.034		0.069	0.034	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,2-Dibromo-3-Chloropropane	<0.14		0.35	0.14	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,2-Dibromoethane	<0.027		0.069	0.027	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Dibromomethane	<0.019		0.069	0.019	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,2-Dichlorobenzene	<0.023		0.069	0.023	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,3-Dichlorobenzene	<0.028		0.069	0.028	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,4-Dichlorobenzene	<0.025		0.069	0.025	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Dichlorodifluoromethane	<0.047	*-	0.21	0.047	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,1-Dichloroethane	<0.028		0.069	0.028	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,2-Dichloroethane	<0.027		0.069	0.027	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,1-Dichloroethene	<0.027		0.069	0.027	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,2-Dichloropropane	<0.030		0.069	0.030	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,3-Dichloropropane	<0.025		0.069	0.025	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
2,2-Dichloropropane	<0.031		0.069	0.031	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,1-Dichloropropene	<0.021		0.069	0.021	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Ethylbenzene	<0.013		0.017	0.013	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Hexachlorobutadiene	<0.031		0.069	0.031	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Isopropylbenzene	<0.027		0.069	0.027	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Isopropyl ether	<0.019		0.069	0.019	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Methylene Chloride	<0.11		0.35	0.11	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Methyl tert-butyl ether	<0.027		0.069	0.027	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Naphthalene	<0.023		0.069	0.023	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
n-Butylbenzene	<0.027		0.069	0.027	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
N-Propylbenzene	<0.029		0.069	0.029	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
p-Isopropyltoluene	<0.025		0.069	0.025	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
sec-Butylbenzene	<0.028		0.069	0.028	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Styrene	<0.027		0.069	0.027	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
tert-Butylbenzene	<0.028		0.069	0.028	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,1,1,2-Tetrachloroethane	<0.032		0.069	0.032	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
1,1,2,2-Tetrachloroethane	<0.028		0.069	0.028	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Tetrachloroethene	<0.026		0.069	0.026	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
Toluene	<0.010		0.017	0.010	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
trans-1,2-Dichloroethene	<0.024		0.069	0.024	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50
trans-1,3-Dichloropropene	<0.025		0.069	0.025	mg/Kg	✱	03/29/22 11:35	04/04/22 15:59	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-9, 13.5-15'

Lab Sample ID: 500-214387-6

Date Collected: 03/29/22 11:35

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.032		0.069	0.032	mg/Kg	✳	03/29/22 11:35	04/04/22 15:59	50
1,2,4-Trichlorobenzene	<0.024		0.069	0.024	mg/Kg	✳	03/29/22 11:35	04/04/22 15:59	50
1,1,1-Trichloroethane	<0.026		0.069	0.026	mg/Kg	✳	03/29/22 11:35	04/04/22 15:59	50
1,1,2-Trichloroethane	<0.024		0.069	0.024	mg/Kg	✳	03/29/22 11:35	04/04/22 15:59	50
Trichloroethene	<0.011		0.035	0.011	mg/Kg	✳	03/29/22 11:35	04/04/22 15:59	50
Trichlorofluoromethane	<0.030		0.069	0.030	mg/Kg	✳	03/29/22 11:35	04/04/22 15:59	50
1,2,3-Trichloropropane	<0.029		0.14	0.029	mg/Kg	✳	03/29/22 11:35	04/04/22 15:59	50
1,2,4-Trimethylbenzene	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 11:35	04/04/22 15:59	50
1,3,5-Trimethylbenzene	<0.026		0.069	0.026	mg/Kg	✳	03/29/22 11:35	04/04/22 15:59	50
Vinyl chloride	<0.018	*	0.069	0.018	mg/Kg	✳	03/29/22 11:35	04/04/22 15:59	50
Xylenes, Total	<0.015		0.035	0.015	mg/Kg	✳	03/29/22 11:35	04/04/22 15:59	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124	03/29/22 11:35	04/04/22 15:59	50
Dibromofluoromethane (Surr)	111		75 - 120	03/29/22 11:35	04/04/22 15:59	50
1,2-Dichloroethane-d4 (Surr)	116		75 - 126	03/29/22 11:35	04/04/22 15:59	50
Toluene-d8 (Surr)	103		75 - 120	03/29/22 11:35	04/04/22 15:59	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.12		0.038	0.0069	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Acenaphthylene	0.0094	J	0.038	0.0051	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Anthracene	0.48		0.038	0.0064	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Benzo[a]anthracene	0.85		0.038	0.0052	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Benzo[a]pyrene	0.90		0.038	0.0075	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Benzo[b]fluoranthene	0.94		0.038	0.0083	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Benzo[g,h,i]perylene	0.47		0.038	0.012	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Benzo[k]fluoranthene	0.43		0.038	0.011	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Chrysene	0.84		0.038	0.011	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Dibenz(a,h)anthracene	0.11		0.038	0.0074	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Fluoranthene	2.4		0.038	0.0071	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Fluorene	0.15		0.038	0.0054	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Indeno[1,2,3-cd]pyrene	0.42		0.038	0.010	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
1-Methylnaphthalene	<0.0094		0.078	0.0094	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
2-Methylnaphthalene	<0.0071		0.078	0.0071	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Naphthalene	0.0089	J	0.038	0.0059	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Phenanthrene	1.4		0.038	0.0054	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1
Pyrene	1.9		0.038	0.0077	mg/Kg	✳	04/12/22 06:34	04/14/22 19:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	81		43 - 145	04/12/22 06:34	04/14/22 19:02	1
Nitrobenzene-d5 (Surr)	70		37 - 147	04/12/22 06:34	04/14/22 19:02	1
Terphenyl-d14 (Surr)	93		42 - 157	04/12/22 06:34	04/14/22 19:02	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7		1.0	0.34	mg/Kg	✳	04/11/22 08:00	04/11/22 16:38	1
Barium	61		1.0	0.11	mg/Kg	✳	04/11/22 08:00	04/11/22 16:38	1
Cadmium	0.081	J B	0.20	0.036	mg/Kg	✳	04/11/22 08:00	04/11/22 16:38	1
Chromium	23	B	1.0	0.50	mg/Kg	✳	04/11/22 08:00	04/11/22 16:38	1

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-9, 13.5-15'

Lab Sample ID: 500-214387-6

Date Collected: 03/29/22 11:35

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.50	0.23	mg/Kg	✱	04/11/22 08:00	04/11/22 16:38	1
Selenium	<0.59		1.0	0.59	mg/Kg	✱	04/11/22 08:00	04/11/22 16:38	1
Silver	0.29	J	0.50	0.13	mg/Kg	✱	04/11/22 08:00	04/11/22 16:38	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.016	J	0.019	0.0063	mg/Kg	✱	04/08/22 13:40	04/11/22 10:46	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-8, 1-2.5'

Lab Sample ID: 500-214387-7

Date Collected: 03/29/22 12:25

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0098		0.017	0.0098	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Bromobenzene	<0.024		0.067	0.024	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Bromochloromethane	<0.029	*+	0.067	0.029	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Bromodichloromethane	<0.025		0.067	0.025	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Bromoform	<0.033		0.067	0.033	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Bromomethane	<0.054	*+	0.20	0.054	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Carbon tetrachloride	<0.026		0.067	0.026	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Chlorobenzene	<0.026		0.067	0.026	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Chloroethane	<0.034		0.067	0.034	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Chloroform	<0.025		0.13	0.025	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Chloromethane	<0.022	*-	0.067	0.022	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
2-Chlorotoluene	<0.021		0.067	0.021	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
4-Chlorotoluene	<0.024		0.067	0.024	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
cis-1,2-Dichloroethene	<0.027		0.067	0.027	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
cis-1,3-Dichloropropene	<0.028		0.067	0.028	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Dibromochloromethane	<0.033		0.067	0.033	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,2-Dibromo-3-Chloropropane	<0.13		0.34	0.13	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,2-Dibromoethane	<0.026		0.067	0.026	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Dibromomethane	<0.018		0.067	0.018	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,2-Dichlorobenzene	<0.022		0.067	0.022	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,3-Dichlorobenzene	<0.027		0.067	0.027	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,4-Dichlorobenzene	<0.024		0.067	0.024	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Dichlorodifluoromethane	<0.045	*-	0.20	0.045	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,1-Dichloroethane	<0.028		0.067	0.028	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,2-Dichloroethane	<0.026		0.067	0.026	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,1-Dichloroethene	<0.026		0.067	0.026	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,2-Dichloropropane	<0.029		0.067	0.029	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,3-Dichloropropane	<0.024		0.067	0.024	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
2,2-Dichloropropane	<0.030		0.067	0.030	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,1-Dichloropropene	<0.020		0.067	0.020	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Hexachlorobutadiene	<0.030		0.067	0.030	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Isopropylbenzene	<0.026		0.067	0.026	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Isopropyl ether	<0.019		0.067	0.019	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Methyl tert-butyl ether	<0.026		0.067	0.026	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Naphthalene	<0.022		0.067	0.022	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
n-Butylbenzene	<0.026		0.067	0.026	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
N-Propylbenzene	<0.028		0.067	0.028	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
p-Isopropyltoluene	<0.024		0.067	0.024	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
sec-Butylbenzene	<0.027		0.067	0.027	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Styrene	<0.026		0.067	0.026	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
tert-Butylbenzene	<0.027		0.067	0.027	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,1,1,2-Tetrachloroethane	<0.031		0.067	0.031	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
1,1,2,2-Tetrachloroethane	<0.027		0.067	0.027	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Tetrachloroethene	<0.025		0.067	0.025	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
Toluene	<0.0099		0.017	0.0099	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
trans-1,2-Dichloroethene	<0.024		0.067	0.024	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50
trans-1,3-Dichloropropene	<0.024		0.067	0.024	mg/Kg	☆	03/29/22 12:25	04/04/22 16:25	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-8, 1-2.5'

Lab Sample ID: 500-214387-7

Date Collected: 03/29/22 12:25

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.031		0.067	0.031	mg/Kg	☼	03/29/22 12:25	04/04/22 16:25	50
1,2,4-Trichlorobenzene	<0.023		0.067	0.023	mg/Kg	☼	03/29/22 12:25	04/04/22 16:25	50
1,1,1-Trichloroethane	<0.026		0.067	0.026	mg/Kg	☼	03/29/22 12:25	04/04/22 16:25	50
1,1,2-Trichloroethane	<0.024		0.067	0.024	mg/Kg	☼	03/29/22 12:25	04/04/22 16:25	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	☼	03/29/22 12:25	04/04/22 16:25	50
Trichlorofluoromethane	<0.029		0.067	0.029	mg/Kg	☼	03/29/22 12:25	04/04/22 16:25	50
1,2,3-Trichloropropane	<0.028		0.13	0.028	mg/Kg	☼	03/29/22 12:25	04/04/22 16:25	50
1,2,4-Trimethylbenzene	<0.024		0.067	0.024	mg/Kg	☼	03/29/22 12:25	04/04/22 16:25	50
1,3,5-Trimethylbenzene	<0.026		0.067	0.026	mg/Kg	☼	03/29/22 12:25	04/04/22 16:25	50
Vinyl chloride	<0.018	*	0.067	0.018	mg/Kg	☼	03/29/22 12:25	04/04/22 16:25	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	☼	03/29/22 12:25	04/04/22 16:25	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		72 - 124	03/29/22 12:25	04/04/22 16:25	50
Dibromofluoromethane (Surr)	104		75 - 120	03/29/22 12:25	04/04/22 16:25	50
1,2-Dichloroethane-d4 (Surr)	114		75 - 126	03/29/22 12:25	04/04/22 16:25	50
Toluene-d8 (Surr)	101		75 - 120	03/29/22 12:25	04/04/22 16:25	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.17		0.039	0.0070	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
Acenaphthylene	0.027	J	0.039	0.0051	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
Anthracene	0.83		0.039	0.0065	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
Benzo[a]anthracene	2.0		0.039	0.0052	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
Benzo[a]pyrene	1.9		0.039	0.0075	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
Benzo[g,h,i]perylene	0.62		0.039	0.013	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
Chrysene	2.0		0.039	0.011	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
Dibenz(a,h)anthracene	0.29		0.039	0.0075	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
Fluorene	0.20		0.039	0.0055	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
Indeno[1,2,3-cd]pyrene	0.71		0.039	0.010	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
1-Methylnaphthalene	0.023	J	0.079	0.0095	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
2-Methylnaphthalene	0.022	J	0.079	0.0072	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
Naphthalene	0.023	J	0.039	0.0060	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1
Phenanthrene	2.4		0.039	0.0054	mg/Kg	☼	04/12/22 06:34	04/13/22 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	82		43 - 145	04/12/22 06:34	04/13/22 13:58	1
Nitrobenzene-d5 (Surr)	68		37 - 147	04/12/22 06:34	04/13/22 13:58	1
Terphenyl-d14 (Surr)	97		42 - 157	04/12/22 06:34	04/13/22 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	2.1		0.19	0.042	mg/Kg	☼	04/12/22 06:34	04/15/22 13:31	5
Benzo[k]fluoranthene	0.93		0.19	0.057	mg/Kg	☼	04/12/22 06:34	04/15/22 13:31	5
Fluoranthene	5.2		0.19	0.036	mg/Kg	☼	04/12/22 06:34	04/15/22 13:31	5
Pyrene	3.6		0.19	0.039	mg/Kg	☼	04/12/22 06:34	04/15/22 13:31	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	85		43 - 145	04/12/22 06:34	04/15/22 13:31	5
Nitrobenzene-d5 (Surr)	63		37 - 147	04/12/22 06:34	04/15/22 13:31	5
Terphenyl-d14 (Surr)	94		42 - 157	04/12/22 06:34	04/15/22 13:31	5

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-8, 1-2.5'

Lab Sample ID: 500-214387-7

Date Collected: 03/29/22 12:25

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0075		0.019	0.0075	mg/Kg	☼	04/11/22 06:40	04/13/22 22:17	1
PCB-1221	<0.0075		0.019	0.0075	mg/Kg	☼	04/11/22 06:40	04/13/22 22:17	1
PCB-1232	<0.0052		0.019	0.0052	mg/Kg	☼	04/11/22 06:40	04/13/22 22:17	1
PCB-1242	<0.0075		0.019	0.0075	mg/Kg	☼	04/11/22 06:40	04/13/22 22:17	1
PCB-1248	<0.0091		0.019	0.0091	mg/Kg	☼	04/11/22 06:40	04/13/22 22:17	1
PCB-1254	<0.0065		0.019	0.0065	mg/Kg	☼	04/11/22 06:40	04/13/22 22:17	1
PCB-1260	<0.0072		0.019	0.0072	mg/Kg	☼	04/11/22 06:40	04/13/22 22:17	1
Polychlorinated biphenyls, Total	<0.0052		0.019	0.0052	mg/Kg	☼	04/11/22 06:40	04/13/22 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	70		49 - 129	04/11/22 06:40	04/13/22 22:17	1
DCB Decachlorobiphenyl	78		37 - 121	04/11/22 06:40	04/13/22 22:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.8		1.1	0.38	mg/Kg	☼	04/11/22 08:00	04/11/22 16:41	1
Barium	66		1.1	0.13	mg/Kg	☼	04/11/22 08:00	04/11/22 16:41	1
Cadmium	0.40	B	0.22	0.040	mg/Kg	☼	04/11/22 08:00	04/11/22 16:41	1
Chromium	23	B	1.1	0.55	mg/Kg	☼	04/11/22 08:00	04/11/22 16:41	1
Lead	36		0.56	0.26	mg/Kg	☼	04/11/22 08:00	04/11/22 16:41	1
Selenium	<0.66		1.1	0.66	mg/Kg	☼	04/11/22 08:00	04/11/22 16:41	1
Silver	0.41	J	0.56	0.14	mg/Kg	☼	04/11/22 08:00	04/11/22 16:41	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.045		0.019	0.0062	mg/Kg	☼	04/08/22 13:40	04/11/22 10:57	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-8, 8.5-10'

Lab Sample ID: 500-214387-8

Date Collected: 03/29/22 12:40

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.018	0.010	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Bromobenzene	<0.026		0.072	0.026	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Bromochloromethane	<0.031	*+	0.072	0.031	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Bromodichloromethane	<0.027		0.072	0.027	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Bromoform	<0.035		0.072	0.035	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Bromomethane	<0.057	*+	0.22	0.057	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Carbon tetrachloride	<0.028		0.072	0.028	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Chlorobenzene	<0.028		0.072	0.028	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Chloroethane	<0.036		0.072	0.036	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Chloroform	<0.027		0.14	0.027	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Chloromethane	<0.023	*-	0.072	0.023	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
2-Chlorotoluene	<0.023		0.072	0.023	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
4-Chlorotoluene	<0.025		0.072	0.025	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
cis-1,2-Dichloroethene	<0.029		0.072	0.029	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
cis-1,3-Dichloropropene	<0.030		0.072	0.030	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Dibromochloromethane	<0.035		0.072	0.035	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,2-Dibromo-3-Chloropropane	<0.14		0.36	0.14	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,2-Dibromoethane	<0.028		0.072	0.028	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Dibromomethane	<0.019		0.072	0.019	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,2-Dichlorobenzene	<0.024		0.072	0.024	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,3-Dichlorobenzene	<0.029		0.072	0.029	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,4-Dichlorobenzene	<0.026		0.072	0.026	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Dichlorodifluoromethane	<0.048	*-	0.22	0.048	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,1-Dichloroethane	<0.029		0.072	0.029	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,2-Dichloroethane	<0.028		0.072	0.028	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,1-Dichloroethene	<0.028		0.072	0.028	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,2-Dichloropropane	<0.031		0.072	0.031	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,3-Dichloropropane	<0.026		0.072	0.026	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
2,2-Dichloropropane	<0.032		0.072	0.032	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,1-Dichloropropene	<0.021		0.072	0.021	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Ethylbenzene	<0.013		0.018	0.013	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Hexachlorobutadiene	<0.032		0.072	0.032	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Isopropylbenzene	<0.028		0.072	0.028	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Isopropyl ether	<0.020		0.072	0.020	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Methylene Chloride	<0.12		0.36	0.12	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Methyl tert-butyl ether	<0.028		0.072	0.028	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Naphthalene	<0.024		0.072	0.024	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
n-Butylbenzene	<0.028		0.072	0.028	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
N-Propylbenzene	<0.030		0.072	0.030	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
p-Isopropyltoluene	<0.026		0.072	0.026	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
sec-Butylbenzene	<0.029		0.072	0.029	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Styrene	<0.028		0.072	0.028	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
tert-Butylbenzene	<0.029		0.072	0.029	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,1,1,2-Tetrachloroethane	<0.033		0.072	0.033	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
1,1,2,2-Tetrachloroethane	<0.029		0.072	0.029	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Tetrachloroethene	<0.027		0.072	0.027	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
Toluene	<0.011		0.018	0.011	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
trans-1,2-Dichloroethene	<0.025		0.072	0.025	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50
trans-1,3-Dichloropropene	<0.026		0.072	0.026	mg/Kg	✱	03/29/22 12:40	04/04/22 16:51	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-8, 8.5-10'

Lab Sample ID: 500-214387-8

Date Collected: 03/29/22 12:40

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.033		0.072	0.033	mg/Kg	✳	03/29/22 12:40	04/04/22 16:51	50
1,2,4-Trichlorobenzene	<0.025		0.072	0.025	mg/Kg	✳	03/29/22 12:40	04/04/22 16:51	50
1,1,1-Trichloroethane	<0.027		0.072	0.027	mg/Kg	✳	03/29/22 12:40	04/04/22 16:51	50
1,1,2-Trichloroethane	<0.025		0.072	0.025	mg/Kg	✳	03/29/22 12:40	04/04/22 16:51	50
Trichloroethene	<0.012		0.036	0.012	mg/Kg	✳	03/29/22 12:40	04/04/22 16:51	50
Trichlorofluoromethane	<0.031		0.072	0.031	mg/Kg	✳	03/29/22 12:40	04/04/22 16:51	50
1,2,3-Trichloropropane	<0.030		0.14	0.030	mg/Kg	✳	03/29/22 12:40	04/04/22 16:51	50
1,2,4-Trimethylbenzene	<0.026		0.072	0.026	mg/Kg	✳	03/29/22 12:40	04/04/22 16:51	50
1,3,5-Trimethylbenzene	<0.027		0.072	0.027	mg/Kg	✳	03/29/22 12:40	04/04/22 16:51	50
Vinyl chloride	<0.019	*	0.072	0.019	mg/Kg	✳	03/29/22 12:40	04/04/22 16:51	50
Xylenes, Total	<0.016		0.036	0.016	mg/Kg	✳	03/29/22 12:40	04/04/22 16:51	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124	03/29/22 12:40	04/04/22 16:51	50
Dibromofluoromethane (Surr)	104		75 - 120	03/29/22 12:40	04/04/22 16:51	50
1,2-Dichloroethane-d4 (Surr)	114		75 - 126	03/29/22 12:40	04/04/22 16:51	50
Toluene-d8 (Surr)	102		75 - 120	03/29/22 12:40	04/04/22 16:51	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.020	J	0.038	0.0069	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Acenaphthylene	0.054		0.038	0.0051	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Anthracene	0.057		0.038	0.0064	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Benzo[a]anthracene	0.16		0.038	0.0052	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Benzo[a]pyrene	0.21		0.038	0.0075	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Benzo[b]fluoranthene	0.20		0.038	0.0083	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Benzo[g,h,i]perylene	0.091		0.038	0.012	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Benzo[k]fluoranthene	0.089		0.038	0.011	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Chrysene	0.18		0.038	0.011	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Dibenz(a,h)anthracene	0.024	J	0.038	0.0074	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Fluoranthene	0.28		0.038	0.0071	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Fluorene	0.025	J	0.038	0.0054	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Indeno[1,2,3-cd]pyrene	0.080		0.038	0.010	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
1-Methylnaphthalene	<0.0094		0.078	0.0094	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
2-Methylnaphthalene	0.013	J	0.078	0.0071	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Naphthalene	0.032	J	0.038	0.0059	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Phenanthrene	0.12		0.038	0.0054	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1
Pyrene	0.29		0.038	0.0077	mg/Kg	✳	04/12/22 06:34	04/14/22 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	81		43 - 145	04/12/22 06:34	04/14/22 19:26	1
Nitrobenzene-d5 (Surr)	65		37 - 147	04/12/22 06:34	04/14/22 19:26	1
Terphenyl-d14 (Surr)	95		42 - 157	04/12/22 06:34	04/14/22 19:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0079		0.020	0.0079	mg/Kg	✳	04/11/22 06:40	04/13/22 22:33	1
PCB-1221	<0.0079		0.020	0.0079	mg/Kg	✳	04/11/22 06:40	04/13/22 22:33	1
PCB-1232	<0.0054		0.020	0.0054	mg/Kg	✳	04/11/22 06:40	04/13/22 22:33	1
PCB-1242	<0.0078		0.020	0.0078	mg/Kg	✳	04/11/22 06:40	04/13/22 22:33	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-8, 8.5-10'

Lab Sample ID: 500-214387-8

Date Collected: 03/29/22 12:40

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 81.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0095		0.020	0.0095	mg/Kg	✳	04/11/22 06:40	04/13/22 22:33	1
PCB-1254	<0.0068		0.020	0.0068	mg/Kg	✳	04/11/22 06:40	04/13/22 22:33	1
PCB-1260	<0.0076		0.020	0.0076	mg/Kg	✳	04/11/22 06:40	04/13/22 22:33	1
Polychlorinated biphenyls, Total	<0.0054		0.020	0.0054	mg/Kg	✳	04/11/22 06:40	04/13/22 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		49 - 129				04/11/22 06:40	04/13/22 22:33	1
DCB Decachlorobiphenyl	92		37 - 121				04/11/22 06:40	04/13/22 22:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.0		1.2	0.40	mg/Kg	✳	04/11/22 08:00	04/11/22 16:51	1
Barium	56		1.2	0.13	mg/Kg	✳	04/11/22 08:00	04/11/22 16:51	1
Cadmium	0.10	J B	0.23	0.042	mg/Kg	✳	04/11/22 08:00	04/11/22 16:51	1
Chromium	25	B	1.2	0.58	mg/Kg	✳	04/11/22 08:00	04/11/22 16:51	1
Lead	12		0.59	0.27	mg/Kg	✳	04/11/22 08:00	04/11/22 16:51	1
Selenium	<0.69		1.2	0.69	mg/Kg	✳	04/11/22 08:00	04/11/22 16:51	1
Silver	0.29	J	0.59	0.15	mg/Kg	✳	04/11/22 08:00	04/11/22 16:51	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0060	mg/Kg	✳	04/08/22 13:40	04/11/22 10:59	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-7, 1-2.5'

Lab Sample ID: 500-214387-9

Date Collected: 03/29/22 13:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.017	0.010	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Bromobenzene	<0.024		0.069	0.024	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Bromochloromethane	<0.029	*+	0.069	0.029	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Bromodichloromethane	<0.026		0.069	0.026	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Bromoform	<0.033		0.069	0.033	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Bromomethane	<0.055	*+	0.21	0.055	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Carbon tetrachloride	<0.026		0.069	0.026	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Chlorobenzene	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Chloroethane	<0.035		0.069	0.035	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Chloroform	<0.025		0.14	0.025	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Chloromethane	<0.022	*-	0.069	0.022	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
2-Chlorotoluene	<0.022		0.069	0.022	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
4-Chlorotoluene	<0.024		0.069	0.024	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
cis-1,2-Dichloroethene	<0.028		0.069	0.028	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
cis-1,3-Dichloropropene	<0.029		0.069	0.029	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Dibromochloromethane	<0.034		0.069	0.034	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,2-Dibromo-3-Chloropropane	<0.14		0.34	0.14	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,2-Dibromoethane	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Dibromomethane	<0.019		0.069	0.019	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,2-Dichlorobenzene	<0.023		0.069	0.023	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,3-Dichlorobenzene	<0.028		0.069	0.028	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,4-Dichlorobenzene	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Dichlorodifluoromethane	<0.046	*-	0.21	0.046	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,1-Dichloroethane	<0.028		0.069	0.028	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,2-Dichloroethane	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,1-Dichloroethene	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,2-Dichloropropane	<0.029		0.069	0.029	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,3-Dichloropropane	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
2,2-Dichloropropane	<0.031		0.069	0.031	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,1-Dichloropropene	<0.020		0.069	0.020	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Ethylbenzene	<0.013		0.017	0.013	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Hexachlorobutadiene	<0.031		0.069	0.031	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Isopropylbenzene	<0.026		0.069	0.026	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Isopropyl ether	<0.019		0.069	0.019	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Methyl tert-butyl ether	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Naphthalene	<0.023		0.069	0.023	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
n-Butylbenzene	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
N-Propylbenzene	<0.028		0.069	0.028	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
p-Isopropyltoluene	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
sec-Butylbenzene	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Styrene	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
tert-Butylbenzene	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,1,1,2-Tetrachloroethane	<0.032		0.069	0.032	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,1,2,2-Tetrachloroethane	<0.027		0.069	0.027	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Tetrachloroethene	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Toluene	<0.010		0.017	0.010	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
trans-1,2-Dichloroethene	<0.024		0.069	0.024	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
trans-1,3-Dichloropropene	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-7, 1-2.5'

Lab Sample ID: 500-214387-9

Date Collected: 03/29/22 13:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.032		0.069	0.032	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,2,4-Trichlorobenzene	<0.024		0.069	0.024	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,1,1-Trichloroethane	<0.026		0.069	0.026	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,1,2-Trichloroethane	<0.024		0.069	0.024	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Trichlorofluoromethane	<0.029		0.069	0.029	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,2,4-Trimethylbenzene	<0.025		0.069	0.025	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
1,3,5-Trimethylbenzene	<0.026		0.069	0.026	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Vinyl chloride	<0.018	*	0.069	0.018	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	✳	03/29/22 13:30	04/04/22 17:17	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124	03/29/22 13:30	04/04/22 17:17	50
Dibromofluoromethane (Surr)	110		75 - 120	03/29/22 13:30	04/04/22 17:17	50
1,2-Dichloroethane-d4 (Surr)	117		75 - 126	03/29/22 13:30	04/04/22 17:17	50
Toluene-d8 (Surr)	105		75 - 120	03/29/22 13:30	04/04/22 17:17	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.015	J	0.038	0.0069	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Acenaphthylene	0.0098	J	0.038	0.0051	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Anthracene	0.067		0.038	0.0064	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Benzo[a]anthracene	0.13		0.038	0.0052	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Benzo[a]pyrene	0.11		0.038	0.0074	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Benzo[b]fluoranthene	0.14		0.038	0.0083	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Benzo[g,h,i]perylene	0.045		0.038	0.012	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Benzo[k]fluoranthene	0.053		0.038	0.011	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Chrysene	0.15		0.038	0.010	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Dibenz(a,h)anthracene	0.015	J	0.038	0.0074	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Fluoranthene	0.36		0.038	0.0071	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Fluorene	0.024	J	0.038	0.0054	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Indeno[1,2,3-cd]pyrene	0.044		0.038	0.0099	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
1-Methylnaphthalene	<0.0094		0.077	0.0094	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
2-Methylnaphthalene	<0.0071		0.077	0.0071	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Naphthalene	<0.0059		0.038	0.0059	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Phenanthrene	0.24		0.038	0.0053	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1
Pyrene	0.26		0.038	0.0076	mg/Kg	✳	04/12/22 06:34	04/14/22 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	82		43 - 145	04/12/22 06:34	04/14/22 19:50	1
Nitrobenzene-d5 (Surr)	70		37 - 147	04/12/22 06:34	04/14/22 19:50	1
Terphenyl-d14 (Surr)	94		42 - 157	04/12/22 06:34	04/14/22 19:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0076		0.019	0.0076	mg/Kg	✳	04/11/22 06:40	04/13/22 22:49	1
PCB-1221	<0.0076		0.019	0.0076	mg/Kg	✳	04/11/22 06:40	04/13/22 22:49	1
PCB-1232	<0.0052		0.019	0.0052	mg/Kg	✳	04/11/22 06:40	04/13/22 22:49	1
PCB-1242	<0.0075		0.019	0.0075	mg/Kg	✳	04/11/22 06:40	04/13/22 22:49	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-7, 1-2.5'

Lab Sample ID: 500-214387-9

Date Collected: 03/29/22 13:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0092		0.019	0.0092	mg/Kg	☼	04/11/22 06:40	04/13/22 22:49	1
PCB-1254	<0.0065		0.019	0.0065	mg/Kg	☼	04/11/22 06:40	04/13/22 22:49	1
PCB-1260	<0.0073		0.019	0.0073	mg/Kg	☼	04/11/22 06:40	04/13/22 22:49	1
Polychlorinated biphenyls, Total	<0.0052		0.019	0.0052	mg/Kg	☼	04/11/22 06:40	04/13/22 22:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		49 - 129	04/11/22 06:40	04/13/22 22:49	1
DCB Decachlorobiphenyl	83		37 - 121	04/11/22 06:40	04/13/22 22:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		1.1	0.37	mg/Kg	☼	04/11/22 08:00	04/11/22 16:54	1
Barium	54		1.1	0.12	mg/Kg	☼	04/11/22 08:00	04/11/22 16:54	1
Cadmium	0.13	J B	0.22	0.039	mg/Kg	☼	04/11/22 08:00	04/11/22 16:54	1
Chromium	21	B	1.1	0.54	mg/Kg	☼	04/11/22 08:00	04/11/22 16:54	1
Lead	10		0.54	0.25	mg/Kg	☼	04/11/22 08:00	04/11/22 16:54	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	04/11/22 08:00	04/11/22 16:54	1
Silver	0.24	J	0.54	0.14	mg/Kg	☼	04/11/22 08:00	04/11/22 16:54	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.017	J	0.018	0.0059	mg/Kg	☼	04/08/22 13:40	04/11/22 11:01	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-7, 8.5-10'

Lab Sample ID: 500-214387-10

Date Collected: 03/29/22 13:45

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0099		0.017	0.0099	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Bromobenzene	<0.024		0.068	0.024	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Bromochloromethane	<0.029	*+	0.068	0.029	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Bromodichloromethane	<0.025		0.068	0.025	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Bromoform	<0.033		0.068	0.033	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Bromomethane	<0.054	*+	0.20	0.054	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Carbon tetrachloride	<0.026		0.068	0.026	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Chlorobenzene	<0.026		0.068	0.026	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Chloroethane	<0.034		0.068	0.034	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Chloroform	<0.025		0.14	0.025	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Chloromethane	<0.022	*-	0.068	0.022	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
2-Chlorotoluene	<0.021		0.068	0.021	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
4-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
cis-1,3-Dichloropropene	<0.028		0.068	0.028	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Dibromochloromethane	<0.033		0.068	0.033	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,2-Dibromo-3-Chloropropane	<0.14		0.34	0.14	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,2-Dibromoethane	<0.026		0.068	0.026	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Dibromomethane	<0.018		0.068	0.018	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,2-Dichlorobenzene	<0.023		0.068	0.023	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,3-Dichlorobenzene	<0.027		0.068	0.027	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,4-Dichlorobenzene	<0.025		0.068	0.025	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Dichlorodifluoromethane	<0.046	*-	0.20	0.046	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,1-Dichloroethane	<0.028		0.068	0.028	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,2-Dichloroethane	<0.027		0.068	0.027	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,1-Dichloroethene	<0.027		0.068	0.027	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,2-Dichloropropane	<0.029		0.068	0.029	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,3-Dichloropropane	<0.025		0.068	0.025	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
2,2-Dichloropropane	<0.030		0.068	0.030	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,1-Dichloropropene	<0.020		0.068	0.020	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Hexachlorobutadiene	<0.030		0.068	0.030	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Isopropylbenzene	<0.026		0.068	0.026	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Isopropyl ether	<0.019		0.068	0.019	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Methyl tert-butyl ether	<0.027		0.068	0.027	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Naphthalene	<0.023		0.068	0.023	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
n-Butylbenzene	<0.026		0.068	0.026	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
N-Propylbenzene	<0.028		0.068	0.028	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
p-Isopropyltoluene	<0.025		0.068	0.025	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
sec-Butylbenzene	<0.027		0.068	0.027	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Styrene	<0.026		0.068	0.026	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
tert-Butylbenzene	<0.027		0.068	0.027	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,1,1,2-Tetrachloroethane	<0.031		0.068	0.031	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
1,1,2,2-Tetrachloroethane	<0.027		0.068	0.027	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Tetrachloroethene	<0.025		0.068	0.025	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
Toluene	<0.010		0.017	0.010	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50
trans-1,3-Dichloropropene	<0.025		0.068	0.025	mg/Kg	✳	03/29/22 13:45	04/04/22 17:44	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-7, 8.5-10'

Lab Sample ID: 500-214387-10

Date Collected: 03/29/22 13:45

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	✱	03/29/22 13:45	04/04/22 17:44	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	✱	03/29/22 13:45	04/04/22 17:44	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	✱	03/29/22 13:45	04/04/22 17:44	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	✱	03/29/22 13:45	04/04/22 17:44	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	✱	03/29/22 13:45	04/04/22 17:44	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	✱	03/29/22 13:45	04/04/22 17:44	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	✱	03/29/22 13:45	04/04/22 17:44	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	✱	03/29/22 13:45	04/04/22 17:44	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	✱	03/29/22 13:45	04/04/22 17:44	50
Vinyl chloride	<0.018	*	0.068	0.018	mg/Kg	✱	03/29/22 13:45	04/04/22 17:44	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	✱	03/29/22 13:45	04/04/22 17:44	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124	03/29/22 13:45	04/04/22 17:44	50
Dibromofluoromethane (Surr)	115		75 - 120	03/29/22 13:45	04/04/22 17:44	50
1,2-Dichloroethane-d4 (Surr)	123		75 - 126	03/29/22 13:45	04/04/22 17:44	50
Toluene-d8 (Surr)	103		75 - 120	03/29/22 13:45	04/04/22 17:44	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.072		0.037	0.0066	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
Acenaphthylene	0.14		0.037	0.0049	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
Anthracene	0.29		0.037	0.0062	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
Benzo[a]anthracene	1.3		0.037	0.0050	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
Benzo[a]pyrene	1.5		0.037	0.0071	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
Benzo[g,h,i]perylene	0.48		0.037	0.012	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
Chrysene	1.3		0.037	0.010	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
Dibenz(a,h)anthracene	0.16		0.037	0.0071	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
Fluorene	0.12		0.037	0.0052	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
Indeno[1,2,3-cd]pyrene	0.55		0.037	0.0096	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
1-Methylnaphthalene	0.061	J	0.074	0.0090	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
2-Methylnaphthalene	0.060	J	0.074	0.0068	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
Naphthalene	0.084		0.037	0.0057	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1
Phenanthrene	1.4		0.037	0.0051	mg/Kg	✱	04/12/22 06:34	04/13/22 15:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	78		43 - 145	04/12/22 06:34	04/13/22 15:06	1
Nitrobenzene-d5 (Surr)	61		37 - 147	04/12/22 06:34	04/13/22 15:06	1
Terphenyl-d14 (Surr)	92		42 - 157	04/12/22 06:34	04/13/22 15:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	1.5		0.18	0.040	mg/Kg	✱	04/12/22 06:34	04/15/22 13:55	5
Benzo[k]fluoranthene	0.65		0.18	0.054	mg/Kg	✱	04/12/22 06:34	04/15/22 13:55	5
Fluoranthene	3.1		0.18	0.034	mg/Kg	✱	04/12/22 06:34	04/15/22 13:55	5
Pyrene	2.3		0.18	0.037	mg/Kg	✱	04/12/22 06:34	04/15/22 13:55	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	80		43 - 145	04/12/22 06:34	04/15/22 13:55	5
Nitrobenzene-d5 (Surr)	60		37 - 147	04/12/22 06:34	04/15/22 13:55	5
Terphenyl-d14 (Surr)	91		42 - 157	04/12/22 06:34	04/15/22 13:55	5

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-7, 8.5-10'

Lab Sample ID: 500-214387-10

Date Collected: 03/29/22 13:45

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		1.1	0.36	mg/Kg	☼	04/11/22 08:00	04/11/22 16:58	1
Barium	59		1.1	0.12	mg/Kg	☼	04/11/22 08:00	04/11/22 16:58	1
Cadmium	0.18	J B	0.21	0.038	mg/Kg	☼	04/11/22 08:00	04/11/22 16:58	1
Chromium	18	B	1.1	0.53	mg/Kg	☼	04/11/22 08:00	04/11/22 16:58	1
Lead	24		0.53	0.25	mg/Kg	☼	04/11/22 08:00	04/11/22 16:58	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	04/11/22 08:00	04/11/22 16:58	1
Silver	0.26	J	0.53	0.14	mg/Kg	☼	04/11/22 08:00	04/11/22 16:58	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.065		0.018	0.0061	mg/Kg	☼	04/08/22 13:40	04/11/22 11:03	1



Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 1-2.5'

Lab Sample ID: 500-214387-11

Date Collected: 03/29/22 14:40

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0088		0.015	0.0088	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Bromobenzene	<0.021		0.060	0.021	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Bromochloromethane	<0.026	*+	0.060	0.026	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Bromodichloromethane	<0.022		0.060	0.022	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Bromoform	<0.029		0.060	0.029	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Bromomethane	<0.048	*+	0.18	0.048	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Carbon tetrachloride	<0.023		0.060	0.023	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Chlorobenzene	<0.023		0.060	0.023	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Chloroethane	<0.030		0.060	0.030	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Chloroform	<0.022		0.12	0.022	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Chloromethane	<0.019	*-	0.060	0.019	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
2-Chlorotoluene	<0.019		0.060	0.019	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
4-Chlorotoluene	<0.021		0.060	0.021	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
cis-1,2-Dichloroethene	<0.025		0.060	0.025	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
cis-1,3-Dichloropropene	<0.025		0.060	0.025	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Dibromochloromethane	<0.029		0.060	0.029	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,2-Dibromo-3-Chloropropane	<0.12		0.30	0.12	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,2-Dibromoethane	<0.023		0.060	0.023	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Dibromomethane	<0.016		0.060	0.016	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,2-Dichlorobenzene	<0.020		0.060	0.020	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,3-Dichlorobenzene	<0.024		0.060	0.024	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,4-Dichlorobenzene	<0.022		0.060	0.022	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Dichlorodifluoromethane	<0.041	*-	0.18	0.041	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,1-Dichloroethane	<0.025		0.060	0.025	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,2-Dichloroethane	<0.024		0.060	0.024	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,1-Dichloroethene	<0.023		0.060	0.023	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,2-Dichloropropane	<0.026		0.060	0.026	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,3-Dichloropropane	<0.022		0.060	0.022	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
2,2-Dichloropropane	<0.027		0.060	0.027	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,1-Dichloropropene	<0.018		0.060	0.018	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Ethylbenzene	<0.011		0.015	0.011	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Hexachlorobutadiene	<0.027		0.060	0.027	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Isopropylbenzene	<0.023		0.060	0.023	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Isopropyl ether	<0.017		0.060	0.017	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Methylene Chloride	<0.098		0.30	0.098	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Methyl tert-butyl ether	<0.024		0.060	0.024	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Naphthalene	<0.020		0.060	0.020	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
n-Butylbenzene	<0.023		0.060	0.023	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
N-Propylbenzene	<0.025		0.060	0.025	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
p-Isopropyltoluene	<0.022		0.060	0.022	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
sec-Butylbenzene	<0.024		0.060	0.024	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Styrene	<0.023		0.060	0.023	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
tert-Butylbenzene	<0.024		0.060	0.024	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,1,1,2-Tetrachloroethane	<0.028		0.060	0.028	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
1,1,2,2-Tetrachloroethane	<0.024		0.060	0.024	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Tetrachloroethene	<0.022		0.060	0.022	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
Toluene	<0.0089		0.015	0.0089	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
trans-1,2-Dichloroethene	<0.021		0.060	0.021	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50
trans-1,3-Dichloropropene	<0.022		0.060	0.022	mg/Kg	✱	03/29/22 14:40	04/04/22 18:10	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 1-2.5'

Lab Sample ID: 500-214387-11

Date Collected: 03/29/22 14:40

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.028		0.060	0.028	mg/Kg	✳	03/29/22 14:40	04/04/22 18:10	50
1,2,4-Trichlorobenzene	<0.021		0.060	0.021	mg/Kg	✳	03/29/22 14:40	04/04/22 18:10	50
1,1,1-Trichloroethane	<0.023		0.060	0.023	mg/Kg	✳	03/29/22 14:40	04/04/22 18:10	50
1,1,2-Trichloroethane	<0.021		0.060	0.021	mg/Kg	✳	03/29/22 14:40	04/04/22 18:10	50
Trichloroethene	<0.0099		0.030	0.0099	mg/Kg	✳	03/29/22 14:40	04/04/22 18:10	50
Trichlorofluoromethane	<0.026		0.060	0.026	mg/Kg	✳	03/29/22 14:40	04/04/22 18:10	50
1,2,3-Trichloropropane	<0.025		0.12	0.025	mg/Kg	✳	03/29/22 14:40	04/04/22 18:10	50
1,2,4-Trimethylbenzene	<0.022		0.060	0.022	mg/Kg	✳	03/29/22 14:40	04/04/22 18:10	50
1,3,5-Trimethylbenzene	<0.023		0.060	0.023	mg/Kg	✳	03/29/22 14:40	04/04/22 18:10	50
Vinyl chloride	<0.016	*	0.060	0.016	mg/Kg	✳	03/29/22 14:40	04/04/22 18:10	50
Xylenes, Total	<0.013		0.030	0.013	mg/Kg	✳	03/29/22 14:40	04/04/22 18:10	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124	03/29/22 14:40	04/04/22 18:10	50
Dibromofluoromethane (Surr)	120		75 - 120	03/29/22 14:40	04/04/22 18:10	50
1,2-Dichloroethane-d4 (Surr)	120		75 - 126	03/29/22 14:40	04/04/22 18:10	50
Toluene-d8 (Surr)	102		75 - 120	03/29/22 14:40	04/04/22 18:10	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0063		0.035	0.0063	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Acenaphthylene	0.0057	J	0.035	0.0046	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Anthracene	0.013	J	0.035	0.0058	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Benzo[a]anthracene	0.085		0.035	0.0047	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Benzo[a]pyrene	0.11		0.035	0.0067	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Benzo[b]fluoranthene	0.14		0.035	0.0075	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Benzo[g,h,i]perylene	0.052		0.035	0.011	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Benzo[k]fluoranthene	0.060		0.035	0.010	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Chrysene	0.13		0.035	0.0095	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Dibenz(a,h)anthracene	0.015	J	0.035	0.0067	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Fluoranthene	0.23		0.035	0.0065	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Fluorene	<0.0049		0.035	0.0049	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Indeno[1,2,3-cd]pyrene	0.048		0.035	0.0090	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
1-Methylnaphthalene	<0.0085		0.070	0.0085	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
2-Methylnaphthalene	<0.0064		0.070	0.0064	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Naphthalene	<0.0054		0.035	0.0054	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Phenanthrene	0.080		0.035	0.0049	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1
Pyrene	0.18		0.035	0.0069	mg/Kg	✳	04/12/22 06:34	04/15/22 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	77		43 - 145	04/12/22 06:34	04/15/22 14:19	1
Nitrobenzene-d5 (Surr)	60		37 - 147	04/12/22 06:34	04/15/22 14:19	1
Terphenyl-d14 (Surr)	92		42 - 157	04/12/22 06:34	04/15/22 14:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0070		0.018	0.0070	mg/Kg	✳	04/11/22 06:40	04/13/22 23:05	1
PCB-1221	<0.0070		0.018	0.0070	mg/Kg	✳	04/11/22 06:40	04/13/22 23:05	1
PCB-1232	<0.0048		0.018	0.0048	mg/Kg	✳	04/11/22 06:40	04/13/22 23:05	1
PCB-1242	<0.0069		0.018	0.0069	mg/Kg	✳	04/11/22 06:40	04/13/22 23:05	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 1-2.5'

Lab Sample ID: 500-214387-11

Date Collected: 03/29/22 14:40

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 90.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0085		0.018	0.0085	mg/Kg	☼	04/11/22 06:40	04/13/22 23:05	1
PCB-1254	<0.0061		0.018	0.0061	mg/Kg	☼	04/11/22 06:40	04/13/22 23:05	1
PCB-1260	<0.0067		0.018	0.0067	mg/Kg	☼	04/11/22 06:40	04/13/22 23:05	1
Polychlorinated biphenyls, Total	<0.0048		0.018	0.0048	mg/Kg	☼	04/11/22 06:40	04/13/22 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		49 - 129				04/11/22 06:40	04/13/22 23:05	1
DCB Decachlorobiphenyl	83		37 - 121				04/11/22 06:40	04/13/22 23:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.3		1.0	0.35	mg/Kg	☼	04/11/22 08:00	04/11/22 17:01	1
Barium	21		1.0	0.12	mg/Kg	☼	04/11/22 08:00	04/11/22 17:01	1
Cadmium	0.16	J B	0.20	0.036	mg/Kg	☼	04/11/22 08:00	04/11/22 17:01	1
Chromium	8.6	B	1.0	0.50	mg/Kg	☼	04/11/22 08:00	04/11/22 17:01	1
Lead	12		0.50	0.23	mg/Kg	☼	04/11/22 08:00	04/11/22 17:01	1
Selenium	<0.59		1.0	0.59	mg/Kg	☼	04/11/22 08:00	04/11/22 17:01	1
Silver	<0.13		0.50	0.13	mg/Kg	☼	04/11/22 08:00	04/11/22 17:01	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.017	0.0056	mg/Kg	☼	04/08/22 13:40	04/11/22 11:04	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 8.5-10'

Lab Sample ID: 500-214387-12

Date Collected: 03/29/22 15:05

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.018	0.010	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Bromobenzene	<0.025		0.070	0.025	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Bromochloromethane	<0.030	*+	0.070	0.030	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Bromodichloromethane	<0.026		0.070	0.026	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Bromoform	<0.034		0.070	0.034	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Bromomethane	<0.056	*+	0.21	0.056	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Carbon tetrachloride	<0.027		0.070	0.027	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Chlorobenzene	<0.027		0.070	0.027	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Chloroethane	<0.035		0.070	0.035	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Chloroform	<0.026		0.14	0.026	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Chloromethane	<0.022	*-	0.070	0.022	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
2-Chlorotoluene	<0.022		0.070	0.022	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
4-Chlorotoluene	<0.025		0.070	0.025	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
cis-1,2-Dichloroethene	<0.029		0.070	0.029	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
cis-1,3-Dichloropropene	<0.029		0.070	0.029	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Dibromochloromethane	<0.034		0.070	0.034	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,2-Dibromo-3-Chloropropane	<0.14		0.35	0.14	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,2-Dibromoethane	<0.027		0.070	0.027	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Dibromomethane	<0.019		0.070	0.019	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,2-Dichlorobenzene	<0.023		0.070	0.023	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,3-Dichlorobenzene	<0.028		0.070	0.028	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,4-Dichlorobenzene	<0.026		0.070	0.026	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Dichlorodifluoromethane	<0.047	*-	0.21	0.047	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,1-Dichloroethane	<0.029		0.070	0.029	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,2-Dichloroethane	<0.028		0.070	0.028	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,1-Dichloroethene	<0.027		0.070	0.027	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,2-Dichloropropane	<0.030		0.070	0.030	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,3-Dichloropropane	<0.025		0.070	0.025	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
2,2-Dichloropropane	<0.031		0.070	0.031	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,1-Dichloropropene	<0.021		0.070	0.021	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Ethylbenzene	<0.013		0.018	0.013	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Hexachlorobutadiene	<0.031		0.070	0.031	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Isopropylbenzene	<0.027		0.070	0.027	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Isopropyl ether	<0.019		0.070	0.019	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Methylene Chloride	<0.11		0.35	0.11	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Methyl tert-butyl ether	<0.028		0.070	0.028	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Naphthalene	<0.023		0.070	0.023	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
n-Butylbenzene	<0.027		0.070	0.027	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
N-Propylbenzene	<0.029		0.070	0.029	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
p-Isopropyltoluene	<0.025		0.070	0.025	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
sec-Butylbenzene	<0.028		0.070	0.028	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Styrene	<0.027		0.070	0.027	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
tert-Butylbenzene	<0.028		0.070	0.028	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,1,1,2-Tetrachloroethane	<0.032		0.070	0.032	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
1,1,2,2-Tetrachloroethane	<0.028		0.070	0.028	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Tetrachloroethene	<0.026		0.070	0.026	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
Toluene	<0.010		0.018	0.010	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
trans-1,2-Dichloroethene	<0.025		0.070	0.025	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50
trans-1,3-Dichloropropene	<0.025		0.070	0.025	mg/Kg	✳	03/29/22 15:05	04/04/22 18:36	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 8.5-10'

Lab Sample ID: 500-214387-12

Date Collected: 03/29/22 15:05

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.032		0.070	0.032	mg/Kg	✱	03/29/22 15:05	04/04/22 18:36	50
1,2,4-Trichlorobenzene	<0.024		0.070	0.024	mg/Kg	✱	03/29/22 15:05	04/04/22 18:36	50
1,1,1-Trichloroethane	<0.027		0.070	0.027	mg/Kg	✱	03/29/22 15:05	04/04/22 18:36	50
1,1,2-Trichloroethane	<0.025		0.070	0.025	mg/Kg	✱	03/29/22 15:05	04/04/22 18:36	50
Trichloroethene	<0.012		0.035	0.012	mg/Kg	✱	03/29/22 15:05	04/04/22 18:36	50
Trichlorofluoromethane	<0.030		0.070	0.030	mg/Kg	✱	03/29/22 15:05	04/04/22 18:36	50
1,2,3-Trichloropropane	<0.029		0.14	0.029	mg/Kg	✱	03/29/22 15:05	04/04/22 18:36	50
1,2,4-Trimethylbenzene	<0.025		0.070	0.025	mg/Kg	✱	03/29/22 15:05	04/04/22 18:36	50
1,3,5-Trimethylbenzene	<0.027		0.070	0.027	mg/Kg	✱	03/29/22 15:05	04/04/22 18:36	50
Vinyl chloride	<0.018	*	0.070	0.018	mg/Kg	✱	03/29/22 15:05	04/04/22 18:36	50
Xylenes, Total	<0.015		0.035	0.015	mg/Kg	✱	03/29/22 15:05	04/04/22 18:36	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		72 - 124	03/29/22 15:05	04/04/22 18:36	50
Dibromofluoromethane (Surr)	109		75 - 120	03/29/22 15:05	04/04/22 18:36	50
1,2-Dichloroethane-d4 (Surr)	118		75 - 126	03/29/22 15:05	04/04/22 18:36	50
Toluene-d8 (Surr)	104		75 - 120	03/29/22 15:05	04/04/22 18:36	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Acenaphthylene	<0.0052		0.039	0.0052	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Anthracene	<0.0066		0.039	0.0066	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Benzo[a]anthracene	<0.0053		0.039	0.0053	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Benzo[a]pyrene	<0.0076		0.039	0.0076	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Chrysene	<0.011		0.039	0.011	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Fluoranthene	0.014	J	0.039	0.0073	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Fluorene	<0.0055		0.039	0.0055	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
1-Methylnaphthalene	<0.0096		0.079	0.0096	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Naphthalene	<0.0061		0.039	0.0061	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Phenanthrene	0.0081	J	0.039	0.0055	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1
Pyrene	0.012	J	0.039	0.0078	mg/Kg	✱	04/12/22 06:34	04/13/22 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	71		43 - 145	04/12/22 06:34	04/13/22 15:51	1
Nitrobenzene-d5 (Surr)	59		37 - 147	04/12/22 06:34	04/13/22 15:51	1
Terphenyl-d14 (Surr)	95		42 - 157	04/12/22 06:34	04/13/22 15:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0076		0.019	0.0076	mg/Kg	✱	04/13/22 06:04	04/14/22 20:05	1
PCB-1221	<0.0076		0.019	0.0076	mg/Kg	✱	04/13/22 06:04	04/14/22 20:05	1
PCB-1232	<0.0052		0.019	0.0052	mg/Kg	✱	04/13/22 06:04	04/14/22 20:05	1
PCB-1242	<0.0075		0.019	0.0075	mg/Kg	✱	04/13/22 06:04	04/14/22 20:05	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 8.5-10'

Lab Sample ID: 500-214387-12

Date Collected: 03/29/22 15:05

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0092		0.019	0.0092	mg/Kg	✳	04/13/22 06:04	04/14/22 20:05	1
PCB-1254	<0.0065		0.019	0.0065	mg/Kg	✳	04/13/22 06:04	04/14/22 20:05	1
PCB-1260	<0.0073		0.019	0.0073	mg/Kg	✳	04/13/22 06:04	04/14/22 20:05	1
Polychlorinated biphenyls, Total	<0.0052		0.019	0.0052	mg/Kg	✳	04/13/22 06:04	04/14/22 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	93		49 - 129				04/13/22 06:04	04/14/22 20:05	1
DCB Decachlorobiphenyl	104		37 - 121				04/13/22 06:04	04/14/22 20:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		1.0	0.36	mg/Kg	✳	04/11/22 08:00	04/11/22 17:04	1
Barium	61		1.0	0.12	mg/Kg	✳	04/11/22 08:00	04/11/22 17:04	1
Cadmium	0.11	J B	0.21	0.037	mg/Kg	✳	04/11/22 08:00	04/11/22 17:04	1
Chromium	26	B	1.0	0.52	mg/Kg	✳	04/11/22 08:00	04/11/22 17:04	1
Lead	12		0.52	0.24	mg/Kg	✳	04/11/22 08:00	04/11/22 17:04	1
Selenium	<0.61		1.0	0.61	mg/Kg	✳	04/11/22 08:00	04/11/22 17:04	1
Silver	0.41	J	0.52	0.13	mg/Kg	✳	04/11/22 08:00	04/11/22 17:04	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.027		0.017	0.0058	mg/Kg	✳	04/08/22 13:40	04/11/22 11:06	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-2, 1-2.5'

Lab Sample ID: 500-214387-13

Date Collected: 03/29/22 15:50

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0099		0.017	0.0099	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Bromobenzene	<0.024		0.068	0.024	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Bromochloromethane	<0.029	*+	0.068	0.029	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Bromodichloromethane	<0.025		0.068	0.025	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Bromoform	<0.033		0.068	0.033	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Bromomethane	<0.054	*+	0.20	0.054	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Carbon tetrachloride	<0.026		0.068	0.026	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Chlorobenzene	<0.026		0.068	0.026	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Chloroethane	<0.034		0.068	0.034	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Chloroform	<0.025		0.14	0.025	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Chloromethane	<0.022	*-	0.068	0.022	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
2-Chlorotoluene	<0.021		0.068	0.021	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
4-Chlorotoluene	<0.024		0.068	0.024	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
cis-1,2-Dichloroethene	<0.028		0.068	0.028	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
cis-1,3-Dichloropropene	<0.028		0.068	0.028	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Dibromochloromethane	<0.033		0.068	0.033	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,2-Dibromo-3-Chloropropane	<0.13		0.34	0.13	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,2-Dibromoethane	<0.026		0.068	0.026	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Dibromomethane	<0.018		0.068	0.018	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,2-Dichlorobenzene	<0.023		0.068	0.023	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,3-Dichlorobenzene	<0.027		0.068	0.027	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,4-Dichlorobenzene	<0.025		0.068	0.025	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Dichlorodifluoromethane	<0.046	*-	0.20	0.046	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,1-Dichloroethane	<0.028		0.068	0.028	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,2-Dichloroethane	<0.026		0.068	0.026	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,1-Dichloroethene	<0.026		0.068	0.026	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,2-Dichloropropane	<0.029		0.068	0.029	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,3-Dichloropropane	<0.024		0.068	0.024	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
2,2-Dichloropropane	<0.030		0.068	0.030	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,1-Dichloropropene	<0.020		0.068	0.020	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Ethylbenzene	<0.012		0.017	0.012	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Hexachlorobutadiene	<0.030		0.068	0.030	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Isopropylbenzene	<0.026		0.068	0.026	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Isopropyl ether	<0.019		0.068	0.019	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Methylene Chloride	<0.11		0.34	0.11	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Methyl tert-butyl ether	<0.027		0.068	0.027	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Naphthalene	<0.023		0.068	0.023	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
n-Butylbenzene	<0.026		0.068	0.026	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
N-Propylbenzene	<0.028		0.068	0.028	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
p-Isopropyltoluene	<0.024		0.068	0.024	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
sec-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Styrene	<0.026		0.068	0.026	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
tert-Butylbenzene	<0.027		0.068	0.027	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,1,1,2-Tetrachloroethane	<0.031		0.068	0.031	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
1,1,2,2-Tetrachloroethane	<0.027		0.068	0.027	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Tetrachloroethene	<0.025		0.068	0.025	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
Toluene	<0.0099		0.017	0.0099	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
trans-1,2-Dichloroethene	<0.024		0.068	0.024	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50
trans-1,3-Dichloropropene	<0.024		0.068	0.024	mg/Kg	☆	03/29/22 15:50	04/04/22 19:02	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-2, 1-2.5'

Lab Sample ID: 500-214387-13

Date Collected: 03/29/22 15:50

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.031		0.068	0.031	mg/Kg	✱	03/29/22 15:50	04/04/22 19:02	50
1,2,4-Trichlorobenzene	<0.023		0.068	0.023	mg/Kg	✱	03/29/22 15:50	04/04/22 19:02	50
1,1,1-Trichloroethane	<0.026		0.068	0.026	mg/Kg	✱	03/29/22 15:50	04/04/22 19:02	50
1,1,2-Trichloroethane	<0.024		0.068	0.024	mg/Kg	✱	03/29/22 15:50	04/04/22 19:02	50
Trichloroethene	<0.011		0.034	0.011	mg/Kg	✱	03/29/22 15:50	04/04/22 19:02	50
Trichlorofluoromethane	<0.029		0.068	0.029	mg/Kg	✱	03/29/22 15:50	04/04/22 19:02	50
1,2,3-Trichloropropane	<0.028		0.14	0.028	mg/Kg	✱	03/29/22 15:50	04/04/22 19:02	50
1,2,4-Trimethylbenzene	<0.024		0.068	0.024	mg/Kg	✱	03/29/22 15:50	04/04/22 19:02	50
1,3,5-Trimethylbenzene	<0.026		0.068	0.026	mg/Kg	✱	03/29/22 15:50	04/04/22 19:02	50
Vinyl chloride	<0.018	*	0.068	0.018	mg/Kg	✱	03/29/22 15:50	04/04/22 19:02	50
Xylenes, Total	<0.015		0.034	0.015	mg/Kg	✱	03/29/22 15:50	04/04/22 19:02	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124	03/29/22 15:50	04/04/22 19:02	50
Dibromofluoromethane (Surr)	102		75 - 120	03/29/22 15:50	04/04/22 19:02	50
1,2-Dichloroethane-d4 (Surr)	108		75 - 126	03/29/22 15:50	04/04/22 19:02	50
Toluene-d8 (Surr)	102		75 - 120	03/29/22 15:50	04/04/22 19:02	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0065		0.036	0.0065	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Acenaphthylene	<0.0048		0.036	0.0048	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Anthracene	<0.0061		0.036	0.0061	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Benzo[a]anthracene	0.035	J	0.036	0.0049	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Benzo[a]pyrene	0.035	J	0.036	0.0070	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Benzo[b]fluoranthene	0.044		0.036	0.0078	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Benzo[g,h,i]perylene	0.021	J	0.036	0.012	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Benzo[k]fluoranthene	0.019	J	0.036	0.011	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Chrysene	0.047		0.036	0.0099	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Dibenz(a,h)anthracene	<0.0070		0.036	0.0070	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Fluoranthene	0.075		0.036	0.0067	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Fluorene	<0.0051		0.036	0.0051	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Indeno[1,2,3-cd]pyrene	0.017	J	0.036	0.0094	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
1-Methylnaphthalene	<0.0089		0.073	0.0089	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
2-Methylnaphthalene	<0.0067		0.073	0.0067	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Naphthalene	<0.0056		0.036	0.0056	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Phenanthrene	0.022	J	0.036	0.0051	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1
Pyrene	0.060		0.036	0.0072	mg/Kg	✱	04/12/22 06:34	04/15/22 12:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	86		43 - 145	04/12/22 06:34	04/15/22 12:43	1
Nitrobenzene-d5 (Surr)	68		37 - 147	04/12/22 06:34	04/15/22 12:43	1
Terphenyl-d14 (Surr)	93		42 - 157	04/12/22 06:34	04/15/22 12:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0076		0.019	0.0076	mg/Kg	✱	04/13/22 06:04	04/14/22 20:20	1
PCB-1221	<0.0076		0.019	0.0076	mg/Kg	✱	04/13/22 06:04	04/14/22 20:20	1
PCB-1232	<0.0052		0.019	0.0052	mg/Kg	✱	04/13/22 06:04	04/14/22 20:20	1
PCB-1242	<0.0075		0.019	0.0075	mg/Kg	✱	04/13/22 06:04	04/14/22 20:20	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-2, 1-2.5'

Lab Sample ID: 500-214387-13

Date Collected: 03/29/22 15:50

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.0092		0.019	0.0092	mg/Kg	☼	04/13/22 06:04	04/14/22 20:20	1
PCB-1254	<0.0065		0.019	0.0065	mg/Kg	☼	04/13/22 06:04	04/14/22 20:20	1
PCB-1260	<0.0073		0.019	0.0073	mg/Kg	☼	04/13/22 06:04	04/14/22 20:20	1
Polychlorinated biphenyls, Total	<0.0052		0.019	0.0052	mg/Kg	☼	04/13/22 06:04	04/14/22 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	84		49 - 129				04/13/22 06:04	04/14/22 20:20	1
DCB Decachlorobiphenyl	109		37 - 121				04/13/22 06:04	04/14/22 20:20	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7		1.1	0.39	mg/Kg	☼	04/11/22 08:00	04/11/22 17:07	1
Barium	56		1.1	0.13	mg/Kg	☼	04/11/22 08:00	04/11/22 17:07	1
Cadmium	0.12	J B	0.23	0.041	mg/Kg	☼	04/11/22 08:00	04/11/22 17:07	1
Chromium	23	B	1.1	0.57	mg/Kg	☼	04/11/22 08:00	04/11/22 17:07	1
Lead	10		0.57	0.26	mg/Kg	☼	04/11/22 08:00	04/11/22 17:07	1
Selenium	<0.67		1.1	0.67	mg/Kg	☼	04/11/22 08:00	04/11/22 17:07	1
Silver	0.26	J	0.57	0.15	mg/Kg	☼	04/11/22 08:00	04/11/22 17:07	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.024		0.018	0.0060	mg/Kg	☼	04/08/22 13:40	04/11/22 11:08	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-2, 5.5-7'

Lab Sample ID: 500-214387-14

Date Collected: 03/29/22 16:05

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.017	0.010	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Bromobenzene	<0.025		0.069	0.025	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Bromochloromethane	<0.030	*+	0.069	0.030	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Bromodichloromethane	<0.026		0.069	0.026	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Bromoform	<0.034		0.069	0.034	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Bromomethane	<0.055	*+	0.21	0.055	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Carbon tetrachloride	<0.027		0.069	0.027	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Chlorobenzene	<0.027		0.069	0.027	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Chloroethane	<0.035		0.069	0.035	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Chloroform	<0.026		0.14	0.026	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Chloromethane	<0.022	*-	0.069	0.022	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
2-Chlorotoluene	<0.022		0.069	0.022	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
4-Chlorotoluene	<0.024		0.069	0.024	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
cis-1,2-Dichloroethene	<0.028		0.069	0.028	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
cis-1,3-Dichloropropene	<0.029		0.069	0.029	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Dibromochloromethane	<0.034		0.069	0.034	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,2-Dibromo-3-Chloropropane	<0.14		0.35	0.14	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,2-Dibromoethane	<0.027		0.069	0.027	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Dibromomethane	<0.019		0.069	0.019	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,2-Dichlorobenzene	<0.023		0.069	0.023	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,3-Dichlorobenzene	<0.028		0.069	0.028	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,4-Dichlorobenzene	<0.025		0.069	0.025	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Dichlorodifluoromethane	<0.047	*-	0.21	0.047	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,1-Dichloroethane	<0.028		0.069	0.028	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,2-Dichloroethane	<0.027		0.069	0.027	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,1-Dichloroethene	<0.027		0.069	0.027	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,2-Dichloropropane	<0.030		0.069	0.030	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,3-Dichloropropane	<0.025		0.069	0.025	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
2,2-Dichloropropane	<0.031		0.069	0.031	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,1-Dichloropropene	<0.021		0.069	0.021	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Ethylbenzene	<0.013		0.017	0.013	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Hexachlorobutadiene	<0.031		0.069	0.031	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Isopropylbenzene	<0.027		0.069	0.027	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Isopropyl ether	<0.019		0.069	0.019	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Methylene Chloride	<0.11		0.35	0.11	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Methyl tert-butyl ether	<0.027		0.069	0.027	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Naphthalene	<0.023		0.069	0.023	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
n-Butylbenzene	<0.027		0.069	0.027	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
N-Propylbenzene	<0.029		0.069	0.029	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
p-Isopropyltoluene	<0.025		0.069	0.025	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
sec-Butylbenzene	<0.028		0.069	0.028	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Styrene	<0.027		0.069	0.027	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
tert-Butylbenzene	<0.028		0.069	0.028	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,1,1,2-Tetrachloroethane	<0.032		0.069	0.032	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
1,1,2,2-Tetrachloroethane	<0.028		0.069	0.028	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Tetrachloroethene	<0.026		0.069	0.026	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
Toluene	<0.010		0.017	0.010	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
trans-1,2-Dichloroethene	<0.024		0.069	0.024	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50
trans-1,3-Dichloropropene	<0.025		0.069	0.025	mg/Kg	☼	03/29/22 16:05	04/04/22 19:28	50

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Client Sample Results

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Job ID: 500-214387-1

Client Sample ID: B-2, 5.5-7'

Lab Sample ID: 500-214387-14

Date Collected: 03/29/22 16:05

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.032		0.069	0.032	mg/Kg	✱	03/29/22 16:05	04/04/22 19:28	50
1,2,4-Trichlorobenzene	<0.024		0.069	0.024	mg/Kg	✱	03/29/22 16:05	04/04/22 19:28	50
1,1,1-Trichloroethane	<0.026		0.069	0.026	mg/Kg	✱	03/29/22 16:05	04/04/22 19:28	50
1,1,2-Trichloroethane	<0.024		0.069	0.024	mg/Kg	✱	03/29/22 16:05	04/04/22 19:28	50
Trichloroethene	<0.011		0.035	0.011	mg/Kg	✱	03/29/22 16:05	04/04/22 19:28	50
Trichlorofluoromethane	<0.030		0.069	0.030	mg/Kg	✱	03/29/22 16:05	04/04/22 19:28	50
1,2,3-Trichloropropane	<0.029		0.14	0.029	mg/Kg	✱	03/29/22 16:05	04/04/22 19:28	50
1,2,4-Trimethylbenzene	<0.025		0.069	0.025	mg/Kg	✱	03/29/22 16:05	04/04/22 19:28	50
1,3,5-Trimethylbenzene	<0.026		0.069	0.026	mg/Kg	✱	03/29/22 16:05	04/04/22 19:28	50
Vinyl chloride	<0.018	*	0.069	0.018	mg/Kg	✱	03/29/22 16:05	04/04/22 19:28	50
Xylenes, Total	<0.015		0.035	0.015	mg/Kg	✱	03/29/22 16:05	04/04/22 19:28	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124	03/29/22 16:05	04/04/22 19:28	50
Dibromofluoromethane (Surr)	110		75 - 120	03/29/22 16:05	04/04/22 19:28	50
1,2-Dichloroethane-d4 (Surr)	117		75 - 126	03/29/22 16:05	04/04/22 19:28	50
Toluene-d8 (Surr)	104		75 - 120	03/29/22 16:05	04/04/22 19:28	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0067		0.037	0.0067	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Acenaphthylene	<0.0049		0.037	0.0049	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Anthracene	0.018	J	0.037	0.0062	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Benzo[a]anthracene	0.053		0.037	0.0050	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Benzo[a]pyrene	0.053		0.037	0.0072	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Benzo[b]fluoranthene	0.062		0.037	0.0080	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Benzo[g,h,i]perylene	0.028	J	0.037	0.012	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Benzo[k]fluoranthene	0.029	J	0.037	0.011	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Chrysene	0.068		0.037	0.010	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Dibenz(a,h)anthracene	0.0080	J	0.037	0.0072	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Fluoranthene	0.14		0.037	0.0069	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Fluorene	<0.0052		0.037	0.0052	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Indeno[1,2,3-cd]pyrene	0.023	J	0.037	0.0096	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
1-Methylnaphthalene	<0.0091		0.075	0.0091	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
2-Methylnaphthalene	<0.0068		0.075	0.0068	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Naphthalene	<0.0057		0.037	0.0057	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Phenanthrene	0.049		0.037	0.0052	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1
Pyrene	0.11		0.037	0.0074	mg/Kg	✱	04/12/22 06:34	04/15/22 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	89		43 - 145	04/12/22 06:34	04/15/22 13:07	1
Nitrobenzene-d5 (Surr)	67		37 - 147	04/12/22 06:34	04/15/22 13:07	1
Terphenyl-d14 (Surr)	91		42 - 157	04/12/22 06:34	04/15/22 13:07	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		1.0	0.34	mg/Kg	✱	04/11/22 08:00	04/11/22 17:11	1
Barium	54		1.0	0.11	mg/Kg	✱	04/11/22 08:00	04/11/22 17:11	1
Cadmium	0.11	J B	0.20	0.036	mg/Kg	✱	04/11/22 08:00	04/11/22 17:11	1
Chromium	21	B	1.0	0.50	mg/Kg	✱	04/11/22 08:00	04/11/22 17:11	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-2, 5.5-7'

Lab Sample ID: 500-214387-14

Date Collected: 03/29/22 16:05

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.0		0.50	0.23	mg/Kg	✱	04/11/22 08:00	04/11/22 17:11	1
Selenium	<0.59		1.0	0.59	mg/Kg	✱	04/11/22 08:00	04/11/22 17:11	1
Silver	0.30	J	0.50	0.13	mg/Kg	✱	04/11/22 08:00	04/11/22 17:11	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.018	0.0061	mg/Kg	✱	04/08/22 13:40	04/11/22 11:10	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 15.5-17'

Lab Sample ID: 500-214387-15

Date Collected: 03/29/22 15:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.017	0.010	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Bromobenzene	<0.025		0.069	0.025	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Bromochloromethane	<0.030		0.069	0.030	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Bromodichloromethane	<0.026		0.069	0.026	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Bromoform	<0.033		0.069	0.033	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Bromomethane	<0.055		0.21	0.055	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Carbon tetrachloride	<0.027		0.069	0.027	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Chlorobenzene	<0.027		0.069	0.027	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Chloroethane	<0.035		0.069	0.035	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Chloroform	<0.026		0.14	0.026	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Chloromethane	<0.022		0.069	0.022	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
2-Chlorotoluene	<0.022		0.069	0.022	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
4-Chlorotoluene	<0.024		0.069	0.024	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
cis-1,2-Dichloroethene	<0.028		0.069	0.028	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
cis-1,3-Dichloropropene	<0.029		0.069	0.029	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Dibromochloromethane	<0.034		0.069	0.034	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,2-Dibromo-3-Chloropropane	<0.14		0.35	0.14	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,2-Dibromoethane	<0.027		0.069	0.027	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Dibromomethane	<0.019		0.069	0.019	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,2-Dichlorobenzene	<0.023		0.069	0.023	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,3-Dichlorobenzene	<0.028		0.069	0.028	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,4-Dichlorobenzene	<0.025		0.069	0.025	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Dichlorodifluoromethane	<0.047		0.21	0.047	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,1-Dichloroethane	<0.028		0.069	0.028	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,2-Dichloroethane	<0.027		0.069	0.027	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,1-Dichloroethene	<0.027		0.069	0.027	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,2-Dichloropropane	<0.030		0.069	0.030	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,3-Dichloropropane	<0.025		0.069	0.025	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
2,2-Dichloropropane	<0.031		0.069	0.031	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,1-Dichloropropene	<0.021		0.069	0.021	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Ethylbenzene	<0.013		0.017	0.013	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Hexachlorobutadiene	<0.031		0.069	0.031	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Isopropylbenzene	<0.027		0.069	0.027	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Isopropyl ether	<0.019		0.069	0.019	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Methylene Chloride	<0.11		0.35	0.11	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Methyl tert-butyl ether	<0.027		0.069	0.027	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Naphthalene	<0.023		0.069	0.023	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
n-Butylbenzene	<0.027		0.069	0.027	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
N-Propylbenzene	<0.029		0.069	0.029	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
p-Isopropyltoluene	<0.025		0.069	0.025	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
sec-Butylbenzene	<0.028		0.069	0.028	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Styrene	<0.027		0.069	0.027	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
tert-Butylbenzene	<0.028		0.069	0.028	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,1,1,2-Tetrachloroethane	<0.032		0.069	0.032	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
1,1,2,2-Tetrachloroethane	<0.028		0.069	0.028	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Tetrachloroethene	<0.026		0.069	0.026	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
Toluene	<0.010		0.017	0.010	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
trans-1,2-Dichloroethene	<0.024		0.069	0.024	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50
trans-1,3-Dichloropropene	<0.025		0.069	0.025	mg/Kg	✱	04/07/22 07:50	04/08/22 16:34	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 15.5-17'

Lab Sample ID: 500-214387-15

Date Collected: 03/29/22 15:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.032		0.069	0.032	mg/Kg	☼	04/07/22 07:50	04/08/22 16:34	50
1,2,4-Trichlorobenzene	<0.024		0.069	0.024	mg/Kg	☼	04/07/22 07:50	04/08/22 16:34	50
1,1,1-Trichloroethane	<0.026		0.069	0.026	mg/Kg	☼	04/07/22 07:50	04/08/22 16:34	50
1,1,2-Trichloroethane	<0.024		0.069	0.024	mg/Kg	☼	04/07/22 07:50	04/08/22 16:34	50
Trichloroethene	<0.011		0.035	0.011	mg/Kg	☼	04/07/22 07:50	04/08/22 16:34	50
Trichlorofluoromethane	<0.030		0.069	0.030	mg/Kg	☼	04/07/22 07:50	04/08/22 16:34	50
1,2,3-Trichloropropane	<0.029		0.14	0.029	mg/Kg	☼	04/07/22 07:50	04/08/22 16:34	50
1,2,4-Trimethylbenzene	<0.025		0.069	0.025	mg/Kg	☼	04/07/22 07:50	04/08/22 16:34	50
1,3,5-Trimethylbenzene	<0.026		0.069	0.026	mg/Kg	☼	04/07/22 07:50	04/08/22 16:34	50
Vinyl chloride	<0.018		0.069	0.018	mg/Kg	☼	04/07/22 07:50	04/08/22 16:34	50
Xylenes, Total	<0.015		0.035	0.015	mg/Kg	☼	04/07/22 07:50	04/08/22 16:34	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		75 - 126	04/07/22 07:50	04/08/22 16:34	50
Toluene-d8 (Surr)	102		75 - 120	04/07/22 07:50	04/08/22 16:34	50
4-Bromofluorobenzene (Surr)	89		72 - 124	04/07/22 07:50	04/08/22 16:34	50
Dibromofluoromethane (Surr)	94		75 - 120	04/07/22 07:50	04/08/22 16:34	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			04/11/22 13:45	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			04/11/22 13:45	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			04/11/22 13:45	20
Chloroform	<0.020		0.040	0.020	mg/L			04/11/22 13:45	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			04/11/22 13:45	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			04/11/22 13:45	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			04/11/22 13:45	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			04/11/22 13:45	20
Trichloroethene	<0.010		0.020	0.010	mg/L			04/11/22 13:45	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			04/11/22 13:45	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124		04/11/22 13:45	20
Dibromofluoromethane (Surr)	97		75 - 120		04/11/22 13:45	20
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		04/11/22 13:45	20
Toluene-d8 (Surr)	95		75 - 120		04/11/22 13:45	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0071		0.039	0.0071	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Acenaphthylene	0.0066	J	0.039	0.0052	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Anthracene	0.021	J	0.039	0.0066	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Benzo[a]anthracene	0.027	J	0.039	0.0053	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Benzo[a]pyrene	0.023	J	0.039	0.0076	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Benzo[b]fluoranthene	<0.0085		0.039	0.0085	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Benzo[g,h,i]perylene	<0.013		0.039	0.013	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Benzo[k]fluoranthene	<0.012		0.039	0.012	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Chrysene	<0.011		0.039	0.011	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Dibenz(a,h)anthracene	<0.0076		0.039	0.0076	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Fluoranthene	0.056		0.039	0.0073	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 15.5-17'

Lab Sample ID: 500-214387-15

Date Collected: 03/29/22 15:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	0.011	J	0.039	0.0055	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Indeno[1,2,3-cd]pyrene	<0.010		0.039	0.010	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
1-Methylnaphthalene	<0.0096		0.079	0.0096	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
2-Methylnaphthalene	<0.0072		0.079	0.0072	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Naphthalene	<0.0060		0.039	0.0060	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Phenanthrene	0.040		0.039	0.0055	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Pyrene	0.046		0.039	0.0078	mg/Kg	☼	04/12/22 06:34	04/13/22 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		43 - 145				04/12/22 06:34	04/13/22 17:00	1
Nitrobenzene-d5 (Surr)	77		37 - 147				04/12/22 06:34	04/13/22 17:00	1
Terphenyl-d14 (Surr)	95		42 - 157				04/12/22 06:34	04/13/22 17:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		04/07/22 14:32	04/11/22 19:49	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		04/07/22 14:32	04/11/22 19:49	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		04/07/22 14:32	04/11/22 19:49	1
Hexachlorobutadiene	<0.050	*3	0.050	0.050	mg/L		04/07/22 14:32	04/11/22 19:49	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		04/07/22 14:32	04/11/22 19:49	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		04/07/22 14:32	04/11/22 19:49	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		04/07/22 14:32	04/11/22 19:49	1
Nitrobenzene	<0.010	*3	0.010	0.010	mg/L		04/07/22 14:32	04/11/22 19:49	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		04/07/22 14:32	04/11/22 19:49	1
Pyridine	<0.20		0.20	0.20	mg/L		04/07/22 14:32	04/11/22 19:49	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		04/07/22 14:32	04/11/22 19:49	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		04/07/22 14:32	04/11/22 19:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	82		34 - 110				04/07/22 14:32	04/11/22 19:49	1
2-Fluorophenol (Surr)	38		27 - 110				04/07/22 14:32	04/11/22 19:49	1
Nitrobenzene-d5 (Surr)	102	*3	36 - 120				04/07/22 14:32	04/11/22 19:49	1
Phenol-d5 (Surr)	7	S1-	20 - 100				04/07/22 14:32	04/11/22 19:49	1
Terphenyl-d14 (Surr)	154	S1+	40 - 145				04/07/22 14:32	04/11/22 19:49	1
2,4,6-Tribromophenol (Surr)	101		40 - 145				04/07/22 14:32	04/11/22 19:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0074		0.019	0.0074	mg/Kg	☼	04/13/22 06:04	04/14/22 20:35	1
PCB-1221	<0.0074		0.019	0.0074	mg/Kg	☼	04/13/22 06:04	04/14/22 20:35	1
PCB-1232	<0.0051		0.019	0.0051	mg/Kg	☼	04/13/22 06:04	04/14/22 20:35	1
PCB-1242	<0.0074		0.019	0.0074	mg/Kg	☼	04/13/22 06:04	04/14/22 20:35	1
PCB-1248	<0.0090		0.019	0.0090	mg/Kg	☼	04/13/22 06:04	04/14/22 20:35	1
PCB-1254	<0.0064		0.019	0.0064	mg/Kg	☼	04/13/22 06:04	04/14/22 20:35	1
PCB-1260	<0.0071		0.019	0.0071	mg/Kg	☼	04/13/22 06:04	04/14/22 20:35	1
Polychlorinated biphenyls, Total	<0.0051		0.019	0.0051	mg/Kg	☼	04/13/22 06:04	04/14/22 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	96		49 - 129				04/13/22 06:04	04/14/22 20:35	1
DCB Decachlorobiphenyl	119		37 - 121				04/13/22 06:04	04/14/22 20:35	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 15.5-17'

Lab Sample ID: 500-214387-15

Date Collected: 03/29/22 15:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		1.0	0.35	mg/Kg	☼	04/11/22 08:00	04/11/22 17:14	1
Barium	23		1.0	0.12	mg/Kg	☼	04/11/22 08:00	04/11/22 17:14	1
Cadmium	0.22	B	0.21	0.037	mg/Kg	☼	04/11/22 08:00	04/11/22 17:14	1
Chromium	14	B	1.0	0.51	mg/Kg	☼	04/11/22 08:00	04/11/22 17:14	1
Lead	9.4		0.51	0.24	mg/Kg	☼	04/11/22 08:00	04/11/22 17:14	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	04/11/22 08:00	04/11/22 17:14	1
Silver	0.17	J	0.51	0.13	mg/Kg	☼	04/11/22 08:00	04/11/22 17:14	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		04/07/22 17:27	04/08/22 11:21	1
Barium	0.17	J	0.50	0.050	mg/L		04/07/22 17:27	04/08/22 11:21	1
Cadmium	0.0046	J	0.0050	0.0020	mg/L		04/07/22 17:27	04/08/22 11:21	1
Chromium	<0.010		0.025	0.010	mg/L		04/07/22 17:27	04/08/22 11:21	1
Copper	0.014	J	0.025	0.010	mg/L		04/07/22 17:27	04/08/22 11:21	1
Lead	<0.0075		0.050	0.0075	mg/L		04/07/22 17:27	04/08/22 11:21	1
Nickel	0.024	J	0.025	0.010	mg/L		04/07/22 17:27	04/08/22 11:21	1
Selenium	<0.020		0.050	0.020	mg/L		04/07/22 17:27	04/08/22 11:21	1
Silver	<0.010		0.025	0.010	mg/L		04/07/22 17:27	04/08/22 11:21	1
Zinc	0.17		0.10	0.020	mg/L		04/07/22 17:27	04/08/22 11:21	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		04/07/22 14:35	04/08/22 11:17	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.019	0.0064	mg/Kg	☼	04/08/22 13:40	04/11/22 11:15	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	<0.12		0.23	0.12	mg/Kg		04/11/22 10:52	04/11/22 13:07	1
Sulfide	<4.6		9.7	4.6	mg/Kg		04/08/22 13:12	04/12/22 16:59	1
pH	7.4	HF	0.2	0.2	SU			04/11/22 19:22	1
Paint Filter	Pass				No Unit			04/08/22 13:19	1
Total Chlorine	<0.091		0.091	0.091	%		04/12/22 19:23	04/12/22 20:51	1
Specific Gravity	2.1371				NONE			04/07/22 12:17	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-214387-16

Date Collected: 03/29/22 00:00

Matrix: Solid

Date Received: 03/31/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0073		0.013	0.0073	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Bromobenzene	<0.018		0.050	0.018	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Bromochloromethane	<0.021	+	0.050	0.021	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Bromodichloromethane	<0.019		0.050	0.019	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Bromoform	<0.024		0.050	0.024	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Bromomethane	<0.040	+	0.15	0.040	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Carbon tetrachloride	<0.019		0.050	0.019	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Chlorobenzene	<0.019		0.050	0.019	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Chloroethane	<0.025		0.050	0.025	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Chloroform	<0.019		0.10	0.019	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Chloromethane	<0.016	-	0.050	0.016	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
2-Chlorotoluene	<0.016		0.050	0.016	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
4-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
cis-1,2-Dichloroethene	<0.020		0.050	0.020	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
cis-1,3-Dichloropropene	<0.021		0.050	0.021	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Dibromochloromethane	<0.024		0.050	0.024	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,2-Dibromo-3-Chloropropane	<0.10		0.25	0.10	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,2-Dibromoethane	<0.019		0.050	0.019	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Dibromomethane	<0.014		0.050	0.014	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,2-Dichlorobenzene	<0.017		0.050	0.017	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,4-Dichlorobenzene	<0.018		0.050	0.018	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Dichlorodifluoromethane	<0.034	-	0.15	0.034	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,1-Dichloroethane	<0.021		0.050	0.021	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,2-Dichloroethane	<0.020		0.050	0.020	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,1-Dichloroethene	<0.020		0.050	0.020	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,2-Dichloropropane	<0.021		0.050	0.021	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,3-Dichloropropane	<0.018		0.050	0.018	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
2,2-Dichloropropane	<0.022		0.050	0.022	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,1-Dichloropropene	<0.015		0.050	0.015	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Ethylbenzene	<0.0092		0.013	0.0092	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Hexachlorobutadiene	<0.022		0.050	0.022	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Isopropylbenzene	<0.019		0.050	0.019	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Isopropyl ether	<0.014		0.050	0.014	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Methylene Chloride	<0.082		0.25	0.082	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Methyl tert-butyl ether	<0.020		0.050	0.020	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Naphthalene	<0.017		0.050	0.017	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
n-Butylbenzene	<0.019		0.050	0.019	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
N-Propylbenzene	<0.021		0.050	0.021	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
p-Isopropyltoluene	<0.018		0.050	0.018	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
sec-Butylbenzene	<0.020		0.050	0.020	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Styrene	<0.019		0.050	0.019	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
tert-Butylbenzene	<0.020		0.050	0.020	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,1,1,2-Tetrachloroethane	<0.023		0.050	0.023	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,1,2,2-Tetrachloroethane	<0.020		0.050	0.020	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Toluene	<0.0074		0.013	0.0074	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
trans-1,2-Dichloroethene	<0.018		0.050	0.018	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
trans-1,3-Dichloropropene	<0.018		0.050	0.018	mg/Kg		03/29/22 00:00	04/04/22 13:20	50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-214387-16

Date Collected: 03/29/22 00:00

Matrix: Solid

Date Received: 03/31/22 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.023		0.050	0.023	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,2,4-Trichlorobenzene	<0.017		0.050	0.017	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,1,1-Trichloroethane	<0.019		0.050	0.019	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,1,2-Trichloroethane	<0.018		0.050	0.018	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Trichloroethene	<0.0082		0.025	0.0082	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Trichlorofluoromethane	<0.021		0.050	0.021	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,2,3-Trichloropropane	<0.021		0.10	0.021	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,2,4-Trimethylbenzene	<0.018		0.050	0.018	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
1,3,5-Trimethylbenzene	<0.019		0.050	0.019	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Vinyl chloride	<0.013	*-	0.050	0.013	mg/Kg		03/29/22 00:00	04/04/22 13:20	50
Xylenes, Total	<0.011		0.025	0.011	mg/Kg		03/29/22 00:00	04/04/22 13:20	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		72 - 124	03/29/22 00:00	04/04/22 13:20	50
Dibromofluoromethane (Surr)	112		75 - 120	03/29/22 00:00	04/04/22 13:20	50
1,2-Dichloroethane-d4 (Surr)	112		75 - 126	03/29/22 00:00	04/04/22 13:20	50
Toluene-d8 (Surr)	105		75 - 120	03/29/22 00:00	04/04/22 13:20	50

Definitions/Glossary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

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

Glossary

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

Definitions/Glossary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

GC/MS VOA

Prep Batch: 649760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-2	B-10, 8.5-10'	Total/NA	Solid	5035	
500-214387-3	B-10, 18.5-20'	Total/NA	Solid	5035	
500-214387-4	B-9, 1-2.5'	Total/NA	Solid	5035	
500-214387-5	B-9, 8.5-10'	Total/NA	Solid	5035	
500-214387-6	B-9, 13.5-15'	Total/NA	Solid	5035	
500-214387-7	B-8, 1-2.5'	Total/NA	Solid	5035	
500-214387-8	B-8, 8.5-10'	Total/NA	Solid	5035	
500-214387-9	B-7, 1-2.5'	Total/NA	Solid	5035	
500-214387-10	B-7, 8.5-10'	Total/NA	Solid	5035	
500-214387-11	B-3, 1-2.5'	Total/NA	Solid	5035	
500-214387-12	B-3, 8.5-10'	Total/NA	Solid	5035	
500-214387-13	B-2, 1-2.5'	Total/NA	Solid	5035	
500-214387-14	B-2, 5.5-7'	Total/NA	Solid	5035	
500-214387-16	Trip Blank	Total/NA	Solid	5035	
LB3 500-649760/16-A	Method Blank	Total/NA	Solid	5035	
LCS 500-649760/17-A	Lab Control Sample	Total/NA	Solid	5035	

Prep Batch: 649964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-1	B-10, 1-2.5'	Total/NA	Solid	5030B	

Analysis Batch: 650006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-1	B-10, 1-2.5'	Total/NA	Solid	8260B	649964
500-214387-2	B-10, 8.5-10'	Total/NA	Solid	8260B	649760
500-214387-3	B-10, 18.5-20'	Total/NA	Solid	8260B	649760
500-214387-4	B-9, 1-2.5'	Total/NA	Solid	8260B	649760
500-214387-5	B-9, 8.5-10'	Total/NA	Solid	8260B	649760
500-214387-6	B-9, 13.5-15'	Total/NA	Solid	8260B	649760
500-214387-7	B-8, 1-2.5'	Total/NA	Solid	8260B	649760
500-214387-8	B-8, 8.5-10'	Total/NA	Solid	8260B	649760
500-214387-9	B-7, 1-2.5'	Total/NA	Solid	8260B	649760
500-214387-10	B-7, 8.5-10'	Total/NA	Solid	8260B	649760
500-214387-11	B-3, 1-2.5'	Total/NA	Solid	8260B	649760
500-214387-12	B-3, 8.5-10'	Total/NA	Solid	8260B	649760
500-214387-13	B-2, 1-2.5'	Total/NA	Solid	8260B	649760
500-214387-14	B-2, 5.5-7'	Total/NA	Solid	8260B	649760
500-214387-16	Trip Blank	Total/NA	Solid	8260B	649760
LB3 500-649760/16-A	Method Blank	Total/NA	Solid	8260B	649760
MB 500-650006/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-649760/17-A	Lab Control Sample	Total/NA	Solid	8260B	649760
LCS 500-650006/5	Lab Control Sample	Total/NA	Solid	8260B	

Prep Batch: 650631

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	5030B	

Analysis Batch: 650933

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	8260B	650631
MB 500-650933/7	Method Blank	Total/NA	Solid	8260B	

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

GC/MS VOA (Continued)

Analysis Batch: 650933 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-650933/5	Lab Control Sample	Total/NA	Solid	8260B	

Leach Batch: 651030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	TCLP	Solid	1311	
LB 500-651030/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 651067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	TCLP	Solid	8260B	651030
LB 500-651030/1-A	Method Blank	TCLP	Solid	8260B	651030
MB 500-651067/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-651067/5	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 650575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	TCLP	Solid	1311	
LB2 500-650575/1-B	Method Blank	TCLP	Solid	1311	
500-214387-15 MS	B-3, 15.5-17'	TCLP	Solid	1311	

Prep Batch: 650734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	TCLP	Solid	3510C	650575
LB2 500-650575/1-B	Method Blank	TCLP	Solid	3510C	650575
MB 500-650734/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-650734/2-A	Lab Control Sample	Total/NA	Solid	3510C	
500-214387-15 MS	B-3, 15.5-17'	TCLP	Solid	3510C	650575

Analysis Batch: 650905

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB2 500-650575/1-B	Method Blank	TCLP	Solid	8270D	650734
MB 500-650734/1-A	Method Blank	Total/NA	Solid	8270D	650734
LCS 500-650734/2-A	Lab Control Sample	Total/NA	Solid	8270D	650734

Analysis Batch: 651037

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	TCLP	Solid	8270D	650734
500-214387-15 MS	B-3, 15.5-17'	TCLP	Solid	8270D	650734

Prep Batch: 651242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-1	B-10, 1-2.5'	Total/NA	Solid	3541	
500-214387-2	B-10, 8.5-10'	Total/NA	Solid	3541	
500-214387-3	B-10, 18.5-20'	Total/NA	Solid	3541	
500-214387-4	B-9, 1-2.5'	Total/NA	Solid	3541	
500-214387-5	B-9, 8.5-10'	Total/NA	Solid	3541	
500-214387-6	B-9, 13.5-15'	Total/NA	Solid	3541	
500-214387-7 - DL	B-8, 1-2.5'	Total/NA	Solid	3541	
500-214387-7	B-8, 1-2.5'	Total/NA	Solid	3541	

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

GC/MS Semi VOA (Continued)

Prep Batch: 651242 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-8	B-8, 8.5-10'	Total/NA	Solid	3541	
500-214387-9	B-7, 1-2.5'	Total/NA	Solid	3541	
500-214387-10 - DL	B-7, 8.5-10'	Total/NA	Solid	3541	
500-214387-10	B-7, 8.5-10'	Total/NA	Solid	3541	
500-214387-11	B-3, 1-2.5'	Total/NA	Solid	3541	
500-214387-12	B-3, 8.5-10'	Total/NA	Solid	3541	
500-214387-13	B-2, 1-2.5'	Total/NA	Solid	3541	
500-214387-14	B-2, 5.5-7'	Total/NA	Solid	3541	
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	3541	
MB 500-651242/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-651242/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 651436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-651242/1-A	Method Blank	Total/NA	Solid	8270D	651242
LCS 500-651242/2-A	Lab Control Sample	Total/NA	Solid	8270D	651242

Analysis Batch: 651442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-2	B-10, 8.5-10'	Total/NA	Solid	8270D	651242
500-214387-3	B-10, 18.5-20'	Total/NA	Solid	8270D	651242
500-214387-7	B-8, 1-2.5'	Total/NA	Solid	8270D	651242
500-214387-10	B-7, 8.5-10'	Total/NA	Solid	8270D	651242
500-214387-12	B-3, 8.5-10'	Total/NA	Solid	8270D	651242
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	8270D	651242

Analysis Batch: 651656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-1	B-10, 1-2.5'	Total/NA	Solid	8270D	651242
500-214387-4	B-9, 1-2.5'	Total/NA	Solid	8270D	651242
500-214387-5	B-9, 8.5-10'	Total/NA	Solid	8270D	651242
500-214387-6	B-9, 13.5-15'	Total/NA	Solid	8270D	651242
500-214387-8	B-8, 8.5-10'	Total/NA	Solid	8270D	651242
500-214387-9	B-7, 1-2.5'	Total/NA	Solid	8270D	651242

Analysis Batch: 651898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-7 - DL	B-8, 1-2.5'	Total/NA	Solid	8270D	651242
500-214387-10 - DL	B-7, 8.5-10'	Total/NA	Solid	8270D	651242
500-214387-11	B-3, 1-2.5'	Total/NA	Solid	8270D	651242
500-214387-13	B-2, 1-2.5'	Total/NA	Solid	8270D	651242
500-214387-14	B-2, 5.5-7'	Total/NA	Solid	8270D	651242

GC Semi VOA

Prep Batch: 651026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-1	B-10, 1-2.5'	Total/NA	Solid	3541	
500-214387-2	B-10, 8.5-10'	Total/NA	Solid	3541	
500-214387-4	B-9, 1-2.5'	Total/NA	Solid	3541	
500-214387-5	B-9, 8.5-10'	Total/NA	Solid	3541	

QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

GC Semi VOA (Continued)

Prep Batch: 651026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-7	B-8, 1-2.5'	Total/NA	Solid	3541	
500-214387-8	B-8, 8.5-10'	Total/NA	Solid	3541	
500-214387-9	B-7, 1-2.5'	Total/NA	Solid	3541	
500-214387-11	B-3, 1-2.5'	Total/NA	Solid	3541	
MB 500-651026/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-651026/2-A	Lab Control Sample	Total/NA	Solid	3541	

Prep Batch: 651428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-12	B-3, 8.5-10'	Total/NA	Solid	3541	
500-214387-13	B-2, 1-2.5'	Total/NA	Solid	3541	
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	3541	
MB 500-651428/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-651428/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 651461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-1	B-10, 1-2.5'	Total/NA	Solid	8082A	651026
500-214387-2	B-10, 8.5-10'	Total/NA	Solid	8082A	651026
500-214387-4	B-9, 1-2.5'	Total/NA	Solid	8082A	651026
500-214387-5	B-9, 8.5-10'	Total/NA	Solid	8082A	651026
500-214387-7	B-8, 1-2.5'	Total/NA	Solid	8082A	651026
500-214387-8	B-8, 8.5-10'	Total/NA	Solid	8082A	651026
500-214387-9	B-7, 1-2.5'	Total/NA	Solid	8082A	651026
500-214387-11	B-3, 1-2.5'	Total/NA	Solid	8082A	651026
MB 500-651026/1-A	Method Blank	Total/NA	Solid	8082A	651026
LCS 500-651026/2-A	Lab Control Sample	Total/NA	Solid	8082A	651026

Analysis Batch: 651796

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-12	B-3, 8.5-10'	Total/NA	Solid	8082A	651428
500-214387-13	B-2, 1-2.5'	Total/NA	Solid	8082A	651428
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	8082A	651428
MB 500-651428/1-A	Method Blank	Total/NA	Solid	8082A	651428
LCS 500-651428/3-A	Lab Control Sample	Total/NA	Solid	8082A	651428

Metals

Leach Batch: 650575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	TCLP	Solid	1311	
LB2 500-650575/1-C	Method Blank	TCLP	Solid	1311	
LB2 500-650575/2-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 650738

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	TCLP	Solid	7470A	650575
LB2 500-650575/2-B	Method Blank	TCLP	Solid	7470A	650575
MB 500-650738/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-650738/27-A	Lab Control Sample	Total/NA	Solid	7470A	

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Metals

Prep Batch: 650760

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	TCLP	Solid	3010A	650575
LB2 500-650575/1-C	Method Blank	TCLP	Solid	3010A	650575
LCS 500-650760/15-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 650883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-1	B-10, 1-2.5'	Total/NA	Solid	7471A	
500-214387-2	B-10, 8.5-10'	Total/NA	Solid	7471A	
500-214387-3	B-10, 18.5-20'	Total/NA	Solid	7471A	
500-214387-4	B-9, 1-2.5'	Total/NA	Solid	7471A	
500-214387-5	B-9, 8.5-10'	Total/NA	Solid	7471A	
500-214387-6	B-9, 13.5-15'	Total/NA	Solid	7471A	
500-214387-7	B-8, 1-2.5'	Total/NA	Solid	7471A	
500-214387-8	B-8, 8.5-10'	Total/NA	Solid	7471A	
500-214387-9	B-7, 1-2.5'	Total/NA	Solid	7471A	
500-214387-10	B-7, 8.5-10'	Total/NA	Solid	7471A	
500-214387-11	B-3, 1-2.5'	Total/NA	Solid	7471A	
500-214387-12	B-3, 8.5-10'	Total/NA	Solid	7471A	
500-214387-13	B-2, 1-2.5'	Total/NA	Solid	7471A	
500-214387-14	B-2, 5.5-7'	Total/NA	Solid	7471A	
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	7471A	
MB 500-650883/12-A	Method Blank	Total/NA	Solid	7471A	
LCS 500-650883/13-A	Lab Control Sample	Total/NA	Solid	7471A	
500-214387-6 MS	B-9, 13.5-15'	Total/NA	Solid	7471A	
500-214387-6 MSD	B-9, 13.5-15'	Total/NA	Solid	7471A	
500-214387-6 DU	B-9, 13.5-15'	Total/NA	Solid	7471A	

Analysis Batch: 650926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	TCLP	Solid	7470A	650738
LB2 500-650575/2-B	Method Blank	TCLP	Solid	7470A	650738
MB 500-650738/12-A	Method Blank	Total/NA	Solid	7470A	650738
LCS 500-650738/27-A	Lab Control Sample	Total/NA	Solid	7470A	650738

Analysis Batch: 650948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	TCLP	Solid	6010B	650760
LB2 500-650575/1-C	Method Blank	TCLP	Solid	6010B	650760
LCS 500-650760/15-A	Lab Control Sample	Total/NA	Solid	6010B	650760

Prep Batch: 651019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-1	B-10, 1-2.5'	Total/NA	Solid	3050B	
500-214387-2	B-10, 8.5-10'	Total/NA	Solid	3050B	
500-214387-3	B-10, 18.5-20'	Total/NA	Solid	3050B	
500-214387-4	B-9, 1-2.5'	Total/NA	Solid	3050B	
500-214387-5	B-9, 8.5-10'	Total/NA	Solid	3050B	
500-214387-6	B-9, 13.5-15'	Total/NA	Solid	3050B	
500-214387-7	B-8, 1-2.5'	Total/NA	Solid	3050B	
500-214387-8	B-8, 8.5-10'	Total/NA	Solid	3050B	
500-214387-9	B-7, 1-2.5'	Total/NA	Solid	3050B	

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Metals (Continued)

Prep Batch: 651019 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-10	B-7, 8.5-10'	Total/NA	Solid	3050B	
500-214387-11	B-3, 1-2.5'	Total/NA	Solid	3050B	
500-214387-12	B-3, 8.5-10'	Total/NA	Solid	3050B	
500-214387-13	B-2, 1-2.5'	Total/NA	Solid	3050B	
500-214387-14	B-2, 5.5-7'	Total/NA	Solid	3050B	
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	3050B	
MB 500-651019/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-651019/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-214387-1 MS	B-10, 1-2.5'	Total/NA	Solid	3050B	
500-214387-1 MSD	B-10, 1-2.5'	Total/NA	Solid	3050B	
500-214387-1 DU	B-10, 1-2.5'	Total/NA	Solid	3050B	

Analysis Batch: 651148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-1	B-10, 1-2.5'	Total/NA	Solid	7471A	650883
500-214387-2	B-10, 8.5-10'	Total/NA	Solid	7471A	650883
500-214387-3	B-10, 18.5-20'	Total/NA	Solid	7471A	650883
500-214387-4	B-9, 1-2.5'	Total/NA	Solid	7471A	650883
500-214387-5	B-9, 8.5-10'	Total/NA	Solid	7471A	650883
500-214387-6	B-9, 13.5-15'	Total/NA	Solid	7471A	650883
500-214387-7	B-8, 1-2.5'	Total/NA	Solid	7471A	650883
500-214387-8	B-8, 8.5-10'	Total/NA	Solid	7471A	650883
500-214387-9	B-7, 1-2.5'	Total/NA	Solid	7471A	650883
500-214387-10	B-7, 8.5-10'	Total/NA	Solid	7471A	650883
500-214387-11	B-3, 1-2.5'	Total/NA	Solid	7471A	650883
500-214387-12	B-3, 8.5-10'	Total/NA	Solid	7471A	650883
500-214387-13	B-2, 1-2.5'	Total/NA	Solid	7471A	650883
500-214387-14	B-2, 5.5-7'	Total/NA	Solid	7471A	650883
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	7471A	650883
MB 500-650883/12-A	Method Blank	Total/NA	Solid	7471A	650883
LCS 500-650883/13-A	Lab Control Sample	Total/NA	Solid	7471A	650883
500-214387-6 MS	B-9, 13.5-15'	Total/NA	Solid	7471A	650883
500-214387-6 MSD	B-9, 13.5-15'	Total/NA	Solid	7471A	650883
500-214387-6 DU	B-9, 13.5-15'	Total/NA	Solid	7471A	650883

Analysis Batch: 651314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-1	B-10, 1-2.5'	Total/NA	Solid	6010B	651019
500-214387-2	B-10, 8.5-10'	Total/NA	Solid	6010B	651019
500-214387-3	B-10, 18.5-20'	Total/NA	Solid	6010B	651019
500-214387-4	B-9, 1-2.5'	Total/NA	Solid	6010B	651019
500-214387-5	B-9, 8.5-10'	Total/NA	Solid	6010B	651019
500-214387-6	B-9, 13.5-15'	Total/NA	Solid	6010B	651019
500-214387-7	B-8, 1-2.5'	Total/NA	Solid	6010B	651019
500-214387-8	B-8, 8.5-10'	Total/NA	Solid	6010B	651019
500-214387-9	B-7, 1-2.5'	Total/NA	Solid	6010B	651019
500-214387-10	B-7, 8.5-10'	Total/NA	Solid	6010B	651019
500-214387-11	B-3, 1-2.5'	Total/NA	Solid	6010B	651019
500-214387-12	B-3, 8.5-10'	Total/NA	Solid	6010B	651019
500-214387-13	B-2, 1-2.5'	Total/NA	Solid	6010B	651019
500-214387-14	B-2, 5.5-7'	Total/NA	Solid	6010B	651019

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Metals (Continued)

Analysis Batch: 651314 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	6010B	651019
MB 500-651019/1-A	Method Blank	Total/NA	Solid	6010B	651019
LCS 500-651019/2-A	Lab Control Sample	Total/NA	Solid	6010B	651019
500-214387-1 MS	B-10, 1-2.5'	Total/NA	Solid	6010B	651019
500-214387-1 MSD	B-10, 1-2.5'	Total/NA	Solid	6010B	651019
500-214387-1 DU	B-10, 1-2.5'	Total/NA	Solid	6010B	651019

Analysis Batch: 651512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-651019/1-A	Method Blank	Total/NA	Solid	6010B	651019

General Chemistry

Prep Batch: 650349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	9030B	
LCS 500-650349/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 650694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	SM 2710F	

Analysis Batch: 650894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-1	B-10, 1-2.5'	Total/NA	Solid	Moisture	
500-214387-2	B-10, 8.5-10'	Total/NA	Solid	Moisture	
500-214387-3	B-10, 18.5-20'	Total/NA	Solid	Moisture	
500-214387-4	B-9, 1-2.5'	Total/NA	Solid	Moisture	
500-214387-5	B-9, 8.5-10'	Total/NA	Solid	Moisture	
500-214387-6	B-9, 13.5-15'	Total/NA	Solid	Moisture	
500-214387-7	B-8, 1-2.5'	Total/NA	Solid	Moisture	
500-214387-8	B-8, 8.5-10'	Total/NA	Solid	Moisture	
500-214387-9	B-7, 1-2.5'	Total/NA	Solid	Moisture	
500-214387-10	B-7, 8.5-10'	Total/NA	Solid	Moisture	
500-214387-11	B-3, 1-2.5'	Total/NA	Solid	Moisture	
500-214387-12	B-3, 8.5-10'	Total/NA	Solid	Moisture	
500-214387-13	B-2, 1-2.5'	Total/NA	Solid	Moisture	
500-214387-14	B-2, 5.5-7'	Total/NA	Solid	Moisture	
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	Moisture	
500-214387-10 DU	B-7, 8.5-10'	Total/NA	Solid	Moisture	

Analysis Batch: 650959

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	9095B	
500-214387-15 DU	B-3, 15.5-17'	Total/NA	Solid	9095B	

Prep Batch: 651130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	9010C	
MB 500-651130/1-A	Method Blank	Total/NA	Solid	9010C	
HLCS 500-651130/2-A	Lab Control Sample	Total/NA	Solid	9010C	

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

General Chemistry (Continued)

Prep Batch: 651130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-651130/3-A	Lab Control Sample	Total/NA	Solid	9010C	
LLCS 500-651130/4-A	Lab Control Sample	Total/NA	Solid	9010C	

Analysis Batch: 651173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	9012B	651130
MB 500-651130/1-A	Method Blank	Total/NA	Solid	9012B	651130
HLCS 500-651130/2-A	Lab Control Sample	Total/NA	Solid	9012B	651130
LCS 500-651130/3-A	Lab Control Sample	Total/NA	Solid	9012B	651130
LLCS 500-651130/4-A	Lab Control Sample	Total/NA	Solid	9012B	651130

Analysis Batch: 651227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	9045D	
LCS 500-651227/2	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-651227/3	Lab Control Sample Dup	Total/NA	Solid	9045D	
500-214387-15 DU	B-3, 15.5-17'	Total/NA	Solid	9045D	

Analysis Batch: 651403

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	9034	650349
LCS 500-650349/2-A	Lab Control Sample	Total/NA	Solid	9034	650349

Prep Batch: 715467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	5050	
MB 680-715467/1-A	Method Blank	Total/NA	Solid	5050	
LCS 680-715467/2-A	Lab Control Sample	Total/NA	Solid	5050	

Analysis Batch: 715472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214387-15	B-3, 15.5-17'	Total/NA	Solid	9251	715467
MB 680-715467/1-A	Method Blank	Total/NA	Solid	9251	715467
LCS 680-715467/2-A	Lab Control Sample	Total/NA	Solid	9251	715467

Surrogate Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-126)	TOL (75-120)	BFB (72-124)	DBFM (75-120)
500-214387-1	B-10, 1-2.5'	109	101	92	108
500-214387-2	B-10, 8.5-10'	108	102	93	106
500-214387-3	B-10, 18.5-20'	110	104	91	109
500-214387-4	B-9, 1-2.5'	109	104	93	113
500-214387-5	B-9, 8.5-10'	111	105	92	101
500-214387-6	B-9, 13.5-15'	116	103	92	111
500-214387-7	B-8, 1-2.5'	114	101	91	104
500-214387-8	B-8, 8.5-10'	114	102	93	104
500-214387-9	B-7, 1-2.5'	117	105	93	110
500-214387-10	B-7, 8.5-10'	123	103	93	115
500-214387-11	B-3, 1-2.5'	120	102	93	120
500-214387-12	B-3, 8.5-10'	118	104	93	109
500-214387-13	B-2, 1-2.5'	108	102	94	102
500-214387-14	B-2, 5.5-7'	117	104	94	110
500-214387-15	B-3, 15.5-17'	81	102	89	94
500-214387-16	Trip Blank	112	105	91	112
LB3 500-649760/16-A	Method Blank	110	102	91	109
LCS 500-649760/17-A	Lab Control Sample	114	106	93	118
LCS 500-650006/5	Lab Control Sample	112	106	94	120
LCS 500-650933/5	Lab Control Sample	78	102	92	93
LCS 500-651067/5	Lab Control Sample	97	96	94	98
MB 500-650006/7	Method Blank	115	100	94	117
MB 500-650933/7	Method Blank	84	101	90	98
MB 500-651067/7	Method Blank	98	93	98	96

Surrogate Legend

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

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-214387-15	B-3, 15.5-17'	97	97	98	95
LB 500-651030/1-A	Method Blank	96	98	97	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

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

TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (43-145)	NBZ (37-147)	TPHL (42-157)
500-214387-1	B-10, 1-2.5'	84	69	92
500-214387-2	B-10, 8.5-10'	78	56	94
500-214387-3	B-10, 18.5-20'	84	55	94
500-214387-4	B-9, 1-2.5'	77	61	88
500-214387-5	B-9, 8.5-10'	81	68	92
500-214387-6	B-9, 13.5-15'	81	70	93
500-214387-7	B-8, 1-2.5'	82	68	97
500-214387-7 - DL	B-8, 1-2.5'	85	63	94
500-214387-8	B-8, 8.5-10'	81	65	95
500-214387-9	B-7, 1-2.5'	82	70	94
500-214387-10	B-7, 8.5-10'	78	61	92
500-214387-10 - DL	B-7, 8.5-10'	80	60	91
500-214387-11	B-3, 1-2.5'	77	60	92
500-214387-12	B-3, 8.5-10'	71	59	95
500-214387-13	B-2, 1-2.5'	86	68	93
500-214387-14	B-2, 5.5-7'	89	67	91
500-214387-15	B-3, 15.5-17'	83	77	95
LCS 500-651242/2-A	Lab Control Sample	91	83	90
MB 500-651242/1-A	Method Blank	85	74	98

Surrogate Legend

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

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		2FP (27-110)	FBP (34-110)	PHL (20-100)	TBP (40-145)	NBZ (36-120)	TPHL (40-145)
LCS 500-650734/2-A	Lab Control Sample	56	105	41	80	86	100
MB 500-650734/1-A	Method Blank	52	51	19 S1-	53	51	98

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
 FBP = 2-Fluorobiphenyl (Surr)
 PHL = Phenol-d5 (Surr)
 TBP = 2,4,6-Tribromophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)

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

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-100)	TPHL (40-145)	TBP (40-145)
500-214387-15	B-3, 15.5-17'	82	38	102 *3	7 S1-	154 S1+	101
500-214387-15 MS	B-3, 15.5-17'	91	60	82	36	133	102
LB2 500-650575/1-B	Method Blank	73	55	76	25	126	81

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Surrogate Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
 2FP = 2-Fluorophenol (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 PHL = Phenol-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)
 TBP = 2,4,6-Tribromophenol (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX1 (49-129)	DCBP1 (37-121)
500-214387-1	B-10, 1-2.5'	98	100
500-214387-2	B-10, 8.5-10'	79	91
500-214387-4	B-9, 1-2.5'	75	89
500-214387-5	B-9, 8.5-10'	84	104
500-214387-7	B-8, 1-2.5'	70	78
500-214387-8	B-8, 8.5-10'	85	92
500-214387-9	B-7, 1-2.5'	74	83
500-214387-11	B-3, 1-2.5'	73	83
500-214387-12	B-3, 8.5-10'	93	104
500-214387-13	B-2, 1-2.5'	84	109
500-214387-15	B-3, 15.5-17'	96	119
LCS 500-651026/2-A	Lab Control Sample	96	93
LCS 500-651428/3-A	Lab Control Sample	105	94
MB 500-651026/1-A	Method Blank	95	107
MB 500-651428/1-A	Method Blank	122	109

Surrogate Legend

TCX = Tetrachloro-m-xylene
 DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: LB3 500-649760/16-A
Matrix: Solid
Analysis Batch: 650006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649760

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.0073		0.013	0.0073	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Bromobenzene	<0.018		0.050	0.018	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Bromochloromethane	<0.021		0.050	0.021	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Bromodichloromethane	<0.019		0.050	0.019	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Bromoform	<0.024		0.050	0.024	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Bromomethane	<0.040		0.15	0.040	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Carbon tetrachloride	<0.019		0.050	0.019	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Chlorobenzene	<0.019		0.050	0.019	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Chloroethane	<0.025		0.050	0.025	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Chloroform	<0.019		0.10	0.019	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Chloromethane	<0.016		0.050	0.016	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
2-Chlorotoluene	<0.016		0.050	0.016	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
4-Chlorotoluene	<0.018		0.050	0.018	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
cis-1,2-Dichloroethene	<0.020		0.050	0.020	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
cis-1,3-Dichloropropene	<0.021		0.050	0.021	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Dibromochloromethane	<0.024		0.050	0.024	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,2-Dibromo-3-Chloropropane	<0.10		0.25	0.10	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,2-Dibromoethane	<0.019		0.050	0.019	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Dibromomethane	<0.014		0.050	0.014	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,2-Dichlorobenzene	<0.017		0.050	0.017	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,3-Dichlorobenzene	<0.020		0.050	0.020	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,4-Dichlorobenzene	<0.018		0.050	0.018	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Dichlorodifluoromethane	<0.034		0.15	0.034	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,1-Dichloroethane	<0.021		0.050	0.021	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,2-Dichloroethane	<0.020		0.050	0.020	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,1-Dichloroethene	<0.020		0.050	0.020	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,2-Dichloropropane	<0.021		0.050	0.021	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,3-Dichloropropane	<0.018		0.050	0.018	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
2,2-Dichloropropane	<0.022		0.050	0.022	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,1-Dichloropropene	<0.015		0.050	0.015	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Ethylbenzene	<0.0092		0.013	0.0092	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Hexachlorobutadiene	<0.022		0.050	0.022	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Isopropylbenzene	<0.019		0.050	0.019	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Isopropyl ether	<0.014		0.050	0.014	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Methylene Chloride	<0.082		0.25	0.082	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Methyl tert-butyl ether	<0.020		0.050	0.020	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Naphthalene	<0.017		0.050	0.017	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
n-Butylbenzene	<0.019		0.050	0.019	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
N-Propylbenzene	<0.021		0.050	0.021	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
p-Isopropyltoluene	<0.018		0.050	0.018	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
sec-Butylbenzene	<0.020		0.050	0.020	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Styrene	<0.019		0.050	0.019	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
tert-Butylbenzene	<0.020		0.050	0.020	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,1,1,2-Tetrachloroethane	<0.023		0.050	0.023	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,1,2,2-Tetrachloroethane	<0.020		0.050	0.020	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Tetrachloroethene	<0.019		0.050	0.019	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Toluene	<0.0074		0.013	0.0074	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
trans-1,2-Dichloroethene	<0.018		0.050	0.018	mg/Kg		04/01/22 02:00	04/04/22 12:54	50

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: LB3 500-649760/16-A
Matrix: Solid
Analysis Batch: 650006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 649760

Analyte	LB3	LB3	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
trans-1,3-Dichloropropene	<0.018		0.050	0.018	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,2,3-Trichlorobenzene	<0.023		0.050	0.023	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,2,4-Trichlorobenzene	<0.017		0.050	0.017	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,1,1-Trichloroethane	<0.019		0.050	0.019	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,1,2-Trichloroethane	<0.018		0.050	0.018	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Trichloroethene	<0.0082		0.025	0.0082	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Trichlorofluoromethane	<0.021		0.050	0.021	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,2,3-Trichloropropane	<0.021		0.10	0.021	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,2,4-Trimethylbenzene	<0.018		0.050	0.018	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
1,3,5-Trimethylbenzene	<0.019		0.050	0.019	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Vinyl chloride	<0.013		0.050	0.013	mg/Kg		04/01/22 02:00	04/04/22 12:54	50
Xylenes, Total	<0.011		0.025	0.011	mg/Kg		04/01/22 02:00	04/04/22 12:54	50

Surrogate	LB3	LB3	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	91		72 - 124	04/01/22 02:00	04/04/22 12:54	50
Dibromofluoromethane (Surr)	109		75 - 120	04/01/22 02:00	04/04/22 12:54	50
1,2-Dichloroethane-d4 (Surr)	110		75 - 126	04/01/22 02:00	04/04/22 12:54	50
Toluene-d8 (Surr)	102		75 - 120	04/01/22 02:00	04/04/22 12:54	50

Lab Sample ID: LCS 500-649760/17-A
Matrix: Solid
Analysis Batch: 650006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649760

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	Limits
		Result	Qualifier				
Benzene	2.50	2.31		mg/Kg		92	70 - 120
Bromobenzene	2.50	2.26		mg/Kg		90	70 - 122
Bromochloromethane	2.50	3.19	*+	mg/Kg		128	65 - 122
Bromodichloromethane	2.50	2.39		mg/Kg		95	69 - 120
Bromoform	2.50	1.94		mg/Kg		78	56 - 132
Bromomethane	2.50	4.13	*+	mg/Kg		165	40 - 152
Carbon tetrachloride	2.50	2.53		mg/Kg		101	59 - 133
Chlorobenzene	2.50	2.38		mg/Kg		95	70 - 120
Chloroethane	2.50	3.17		mg/Kg		127	48 - 136
Chloroform	2.50	2.88		mg/Kg		115	70 - 120
Chloromethane	2.50	1.28	*-	mg/Kg		51	56 - 152
2-Chlorotoluene	2.50	2.12		mg/Kg		85	70 - 125
4-Chlorotoluene	2.50	2.14		mg/Kg		86	68 - 124
cis-1,2-Dichloroethene	2.50	2.74		mg/Kg		109	70 - 125
cis-1,3-Dichloropropene	2.50	2.08		mg/Kg		83	64 - 127
Dibromochloromethane	2.50	2.28		mg/Kg		91	68 - 125
1,2-Dibromo-3-Chloropropane	2.50	1.97		mg/Kg		79	56 - 123
1,2-Dibromoethane	2.50	2.55		mg/Kg		102	70 - 125
Dibromomethane	2.50	2.52		mg/Kg		101	70 - 120
1,2-Dichlorobenzene	2.50	2.45		mg/Kg		98	70 - 125
1,3-Dichlorobenzene	2.50	2.36		mg/Kg		94	70 - 125
1,4-Dichlorobenzene	2.50	2.30		mg/Kg		92	70 - 120
Dichlorodifluoromethane	2.50	0.953	*-	mg/Kg		38	40 - 159
1,1-Dichloroethane	2.50	2.22		mg/Kg		89	70 - 125

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: LCS 500-649760/17-A
Matrix: Solid
Analysis Batch: 650006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 649760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloroethane	2.50	2.37		mg/Kg		95	68 - 127
1,1-Dichloroethene	2.50	2.25		mg/Kg		90	67 - 122
1,2-Dichloropropane	2.50	1.97		mg/Kg		79	67 - 130
1,3-Dichloropropane	2.50	2.31		mg/Kg		92	62 - 136
2,2-Dichloropropane	2.50	2.40		mg/Kg		96	58 - 139
1,1-Dichloropropene	2.50	2.33		mg/Kg		93	70 - 121
Ethylbenzene	2.50	2.33		mg/Kg		93	70 - 123
Hexachlorobutadiene	2.50	2.00		mg/Kg		80	51 - 150
Isopropylbenzene	2.50	2.27		mg/Kg		91	70 - 126
Methylene Chloride	2.50	2.65		mg/Kg		106	69 - 125
Methyl tert-butyl ether	2.50	2.67		mg/Kg		107	55 - 123
Naphthalene	2.50	2.58		mg/Kg		103	53 - 144
n-Butylbenzene	2.50	2.15		mg/Kg		86	68 - 125
N-Propylbenzene	2.50	2.13		mg/Kg		85	69 - 127
p-Isopropyltoluene	2.50	2.36		mg/Kg		94	70 - 125
sec-Butylbenzene	2.50	2.30		mg/Kg		92	70 - 123
Styrene	2.50	2.32		mg/Kg		93	70 - 120
tert-Butylbenzene	2.50	2.38		mg/Kg		95	70 - 121
1,1,1,2-Tetrachloroethane	2.50	2.46		mg/Kg		98	70 - 125
1,1,1,2,2-Tetrachloroethane	2.50	2.24		mg/Kg		90	62 - 140
Tetrachloroethene	2.50	2.28		mg/Kg		91	70 - 128
Toluene	2.50	2.24		mg/Kg		90	70 - 125
trans-1,2-Dichloroethene	2.50	2.46		mg/Kg		99	70 - 125
trans-1,3-Dichloropropene	2.50	2.17		mg/Kg		87	62 - 128
1,2,3-Trichlorobenzene	2.50	2.45		mg/Kg		98	51 - 145
1,2,4-Trichlorobenzene	2.50	2.25		mg/Kg		90	57 - 137
1,1,1-Trichloroethane	2.50	2.71		mg/Kg		108	70 - 125
1,1,2-Trichloroethane	2.50	2.42		mg/Kg		97	71 - 130
Trichloroethene	2.50	2.45		mg/Kg		98	70 - 125
Trichlorofluoromethane	2.50	2.03		mg/Kg		81	55 - 128
1,2,3-Trichloropropane	2.50	2.52		mg/Kg		101	50 - 133
1,2,4-Trimethylbenzene	2.50	2.30		mg/Kg		92	70 - 123
1,3,5-Trimethylbenzene	2.50	2.27		mg/Kg		91	70 - 123
Vinyl chloride	2.50	1.53	*	mg/Kg		61	64 - 126
Xylenes, Total	5.00	4.48		mg/Kg		90	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		72 - 124
Dibromofluoromethane (Surr)	118		75 - 120
1,2-Dichloroethane-d4 (Surr)	114		75 - 126
Toluene-d8 (Surr)	106		75 - 120

Lab Sample ID: MB 500-650006/7
Matrix: Solid
Analysis Batch: 650006

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00015		0.00025	0.00015	mg/Kg			04/04/22 12:28	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: MB 500-650006/7
Matrix: Solid
Analysis Batch: 650006

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.00036		0.0010	0.00036	mg/Kg			04/04/22 12:28	1
Bromochloromethane	<0.00043		0.0010	0.00043	mg/Kg			04/04/22 12:28	1
Bromodichloromethane	<0.00037		0.0010	0.00037	mg/Kg			04/04/22 12:28	1
Bromoform	<0.00048		0.0010	0.00048	mg/Kg			04/04/22 12:28	1
Bromomethane	<0.00080		0.0030	0.00080	mg/Kg			04/04/22 12:28	1
Carbon tetrachloride	<0.00038		0.0010	0.00038	mg/Kg			04/04/22 12:28	1
Chlorobenzene	<0.00039		0.0010	0.00039	mg/Kg			04/04/22 12:28	1
Chloroethane	<0.00050		0.0010	0.00050	mg/Kg			04/04/22 12:28	1
Chloroform	<0.00037		0.0020	0.00037	mg/Kg			04/04/22 12:28	1
Chloromethane	<0.00032		0.0010	0.00032	mg/Kg			04/04/22 12:28	1
2-Chlorotoluene	<0.00031		0.0010	0.00031	mg/Kg			04/04/22 12:28	1
4-Chlorotoluene	<0.00035		0.0010	0.00035	mg/Kg			04/04/22 12:28	1
cis-1,2-Dichloroethene	<0.00041		0.0010	0.00041	mg/Kg			04/04/22 12:28	1
cis-1,3-Dichloropropene	<0.00042		0.0010	0.00042	mg/Kg			04/04/22 12:28	1
Dibromochloromethane	<0.00049		0.0010	0.00049	mg/Kg			04/04/22 12:28	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg			04/04/22 12:28	1
1,2-Dibromoethane	<0.00039		0.0010	0.00039	mg/Kg			04/04/22 12:28	1
Dibromomethane	<0.00027		0.0010	0.00027	mg/Kg			04/04/22 12:28	1
1,2-Dichlorobenzene	<0.00033		0.0010	0.00033	mg/Kg			04/04/22 12:28	1
1,3-Dichlorobenzene	<0.00040		0.0010	0.00040	mg/Kg			04/04/22 12:28	1
1,4-Dichlorobenzene	<0.00036		0.0010	0.00036	mg/Kg			04/04/22 12:28	1
Dichlorodifluoromethane	<0.00067		0.0030	0.00067	mg/Kg			04/04/22 12:28	1
1,1-Dichloroethane	<0.00041		0.0010	0.00041	mg/Kg			04/04/22 12:28	1
1,2-Dichloroethane	<0.00039		0.0010	0.00039	mg/Kg			04/04/22 12:28	1
1,1-Dichloroethene	<0.00039		0.0010	0.00039	mg/Kg			04/04/22 12:28	1
1,2-Dichloropropane	<0.00043		0.0010	0.00043	mg/Kg			04/04/22 12:28	1
1,3-Dichloropropane	<0.00036		0.0010	0.00036	mg/Kg			04/04/22 12:28	1
2,2-Dichloropropane	<0.00044		0.0010	0.00044	mg/Kg			04/04/22 12:28	1
1,1-Dichloropropene	<0.00030		0.0010	0.00030	mg/Kg			04/04/22 12:28	1
Ethylbenzene	<0.00018		0.00025	0.00018	mg/Kg			04/04/22 12:28	1
Hexachlorobutadiene	<0.00045		0.0010	0.00045	mg/Kg			04/04/22 12:28	1
Isopropylbenzene	<0.00038		0.0010	0.00038	mg/Kg			04/04/22 12:28	1
Isopropyl ether	<0.00028		0.0010	0.00028	mg/Kg			04/04/22 12:28	1
Methylene Chloride	<0.0016		0.0050	0.0016	mg/Kg			04/04/22 12:28	1
Methyl tert-butyl ether	<0.00039		0.0010	0.00039	mg/Kg			04/04/22 12:28	1
Naphthalene	<0.00033		0.0010	0.00033	mg/Kg			04/04/22 12:28	1
n-Butylbenzene	<0.00039		0.0010	0.00039	mg/Kg			04/04/22 12:28	1
N-Propylbenzene	<0.00041		0.0010	0.00041	mg/Kg			04/04/22 12:28	1
p-Isopropyltoluene	<0.00036		0.0010	0.00036	mg/Kg			04/04/22 12:28	1
sec-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			04/04/22 12:28	1
Styrene	<0.00039		0.0010	0.00039	mg/Kg			04/04/22 12:28	1
tert-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			04/04/22 12:28	1
1,1,1,2-Tetrachloroethane	<0.00046		0.0010	0.00046	mg/Kg			04/04/22 12:28	1
1,1,2,2-Tetrachloroethane	<0.00040		0.0010	0.00040	mg/Kg			04/04/22 12:28	1
Tetrachloroethene	<0.00037		0.0010	0.00037	mg/Kg			04/04/22 12:28	1
Toluene	<0.00015		0.00025	0.00015	mg/Kg			04/04/22 12:28	1
trans-1,2-Dichloroethene	<0.00035		0.0010	0.00035	mg/Kg			04/04/22 12:28	1
trans-1,3-Dichloropropene	<0.00036		0.0010	0.00036	mg/Kg			04/04/22 12:28	1
1,2,3-Trichlorobenzene	<0.00046		0.0010	0.00046	mg/Kg			04/04/22 12:28	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: MB 500-650006/7
Matrix: Solid
Analysis Batch: 650006

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.00034		0.0010	0.00034	mg/Kg			04/04/22 12:28	1
1,1,1-Trichloroethane	<0.00038		0.0010	0.00038	mg/Kg			04/04/22 12:28	1
1,1,2-Trichloroethane	<0.00035		0.0010	0.00035	mg/Kg			04/04/22 12:28	1
Trichloroethene	<0.00016		0.00050	0.00016	mg/Kg			04/04/22 12:28	1
Trichlorofluoromethane	<0.00043		0.0010	0.00043	mg/Kg			04/04/22 12:28	1
1,2,3-Trichloropropane	<0.00041		0.0020	0.00041	mg/Kg			04/04/22 12:28	1
1,2,4-Trimethylbenzene	<0.00036		0.0010	0.00036	mg/Kg			04/04/22 12:28	1
1,3,5-Trimethylbenzene	<0.00038		0.0010	0.00038	mg/Kg			04/04/22 12:28	1
Vinyl chloride	<0.00026		0.0010	0.00026	mg/Kg			04/04/22 12:28	1
Xylenes, Total	<0.00022		0.00050	0.00022	mg/Kg			04/04/22 12:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		72 - 124		04/04/22 12:28	1
Dibromofluoromethane (Surr)	117		75 - 120		04/04/22 12:28	1
1,2-Dichloroethane-d4 (Surr)	115		75 - 126		04/04/22 12:28	1
Toluene-d8 (Surr)	100		75 - 120		04/04/22 12:28	1

Lab Sample ID: LCS 500-650006/5
Matrix: Solid
Analysis Batch: 650006

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0483		mg/Kg		97	70 - 120
Bromobenzene	0.0500	0.0481		mg/Kg		96	70 - 122
Bromochloromethane	0.0500	0.0610		mg/Kg		122	65 - 122
Bromodichloromethane	0.0500	0.0516		mg/Kg		103	69 - 120
Bromoform	0.0500	0.0448		mg/Kg		90	56 - 132
Bromomethane	0.0500	0.0564		mg/Kg		113	40 - 152
Carbon tetrachloride	0.0500	0.0579		mg/Kg		116	59 - 133
Chlorobenzene	0.0500	0.0492		mg/Kg		98	70 - 120
Chloroethane	0.0500	0.0429		mg/Kg		86	48 - 136
Chloroform	0.0500	0.0577		mg/Kg		115	70 - 120
Chloromethane	0.0500	0.0320		mg/Kg		64	56 - 152
2-Chlorotoluene	0.0500	0.0452		mg/Kg		90	70 - 125
4-Chlorotoluene	0.0500	0.0459		mg/Kg		92	68 - 124
cis-1,2-Dichloroethene	0.0500	0.0534		mg/Kg		107	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0443		mg/Kg		89	64 - 127
Dibromochloromethane	0.0500	0.0525		mg/Kg		105	68 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0459		mg/Kg		92	56 - 123
1,2-Dibromoethane	0.0500	0.0525		mg/Kg		105	70 - 125
Dibromomethane	0.0500	0.0530		mg/Kg		106	70 - 120
1,2-Dichlorobenzene	0.0500	0.0505		mg/Kg		101	70 - 125
1,3-Dichlorobenzene	0.0500	0.0500		mg/Kg		100	70 - 125
1,4-Dichlorobenzene	0.0500	0.0494		mg/Kg		99	70 - 120
Dichlorodifluoromethane	0.0500	0.0376		mg/Kg		75	40 - 159
1,1-Dichloroethane	0.0500	0.0456		mg/Kg		91	70 - 125
1,2-Dichloroethane	0.0500	0.0479		mg/Kg		96	68 - 127
1,1-Dichloroethene	0.0500	0.0465		mg/Kg		93	67 - 122

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: LCS 500-650006/5

Matrix: Solid

Analysis Batch: 650006

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	0.0500	0.0409		mg/Kg		82	67 - 130
1,3-Dichloropropane	0.0500	0.0452		mg/Kg		90	62 - 136
2,2-Dichloropropane	0.0500	0.0524		mg/Kg		105	58 - 139
1,1-Dichloropropene	0.0500	0.0505		mg/Kg		101	70 - 121
Ethylbenzene	0.0500	0.0503		mg/Kg		101	70 - 123
Hexachlorobutadiene	0.0500	0.0441		mg/Kg		88	51 - 150
Isopropylbenzene	0.0500	0.0494		mg/Kg		99	70 - 126
Methylene Chloride	0.0500	0.0517		mg/Kg		103	69 - 125
Methyl tert-butyl ether	0.0500	0.0511		mg/Kg		102	55 - 123
Naphthalene	0.0500	0.0516		mg/Kg		103	53 - 144
n-Butylbenzene	0.0500	0.0488		mg/Kg		98	68 - 125
N-Propylbenzene	0.0500	0.0467		mg/Kg		93	69 - 127
p-Isopropyltoluene	0.0500	0.0526		mg/Kg		105	70 - 125
sec-Butylbenzene	0.0500	0.0497		mg/Kg		99	70 - 123
Styrene	0.0500	0.0490		mg/Kg		98	70 - 120
tert-Butylbenzene	0.0500	0.0514		mg/Kg		103	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0531		mg/Kg		106	70 - 125
1,1,1,2-Tetrachloroethane	0.0500	0.0483		mg/Kg		97	62 - 140
Tetrachloroethene	0.0500	0.0489		mg/Kg		98	70 - 128
Toluene	0.0500	0.0458		mg/Kg		92	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0528		mg/Kg		106	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0445		mg/Kg		89	62 - 128
1,2,3-Trichlorobenzene	0.0500	0.0498		mg/Kg		100	51 - 145
1,2,4-Trichlorobenzene	0.0500	0.0485		mg/Kg		97	57 - 137
1,1,1-Trichloroethane	0.0500	0.0590		mg/Kg		118	70 - 125
1,1,2-Trichloroethane	0.0500	0.0486		mg/Kg		97	71 - 130
Trichloroethene	0.0500	0.0529		mg/Kg		106	70 - 125
Trichlorofluoromethane	0.0500	0.0526		mg/Kg		105	55 - 128
1,2,3-Trichloropropane	0.0500	0.0527		mg/Kg		105	50 - 133
1,2,4-Trimethylbenzene	0.0500	0.0498		mg/Kg		100	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0491		mg/Kg		98	70 - 123
Vinyl chloride	0.0500	0.0373		mg/Kg		75	64 - 126
Xylenes, Total	0.100	0.0943		mg/Kg		94	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane (Surr)	120		75 - 120
1,2-Dichloroethane-d4 (Surr)	112		75 - 126
Toluene-d8 (Surr)	106		75 - 120

Lab Sample ID: MB 500-650933/7

Matrix: Solid

Analysis Batch: 650933

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00015		0.00025	0.00015	mg/Kg			04/08/22 16:11	1
Bromobenzene	<0.00036		0.0010	0.00036	mg/Kg			04/08/22 16:11	1
Bromochloromethane	<0.00043		0.0010	0.00043	mg/Kg			04/08/22 16:11	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: MB 500-650933/7
Matrix: Solid
Analysis Batch: 650933

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.00037		0.0010	0.00037	mg/Kg			04/08/22 16:11	1
Bromoform	<0.00048		0.0010	0.00048	mg/Kg			04/08/22 16:11	1
Bromomethane	<0.00080		0.0030	0.00080	mg/Kg			04/08/22 16:11	1
Carbon tetrachloride	<0.00038		0.0010	0.00038	mg/Kg			04/08/22 16:11	1
Chlorobenzene	<0.00039		0.0010	0.00039	mg/Kg			04/08/22 16:11	1
Chloroethane	<0.00050		0.0010	0.00050	mg/Kg			04/08/22 16:11	1
Chloroform	<0.00037		0.0020	0.00037	mg/Kg			04/08/22 16:11	1
Chloromethane	<0.00032		0.0010	0.00032	mg/Kg			04/08/22 16:11	1
2-Chlorotoluene	<0.00031		0.0010	0.00031	mg/Kg			04/08/22 16:11	1
4-Chlorotoluene	<0.00035		0.0010	0.00035	mg/Kg			04/08/22 16:11	1
cis-1,2-Dichloroethene	<0.00041		0.0010	0.00041	mg/Kg			04/08/22 16:11	1
cis-1,3-Dichloropropene	<0.00042		0.0010	0.00042	mg/Kg			04/08/22 16:11	1
Dibromochloromethane	<0.00049		0.0010	0.00049	mg/Kg			04/08/22 16:11	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg			04/08/22 16:11	1
1,2-Dibromoethane	<0.00039		0.0010	0.00039	mg/Kg			04/08/22 16:11	1
Dibromomethane	<0.00027		0.0010	0.00027	mg/Kg			04/08/22 16:11	1
1,2-Dichlorobenzene	<0.00033		0.0010	0.00033	mg/Kg			04/08/22 16:11	1
1,3-Dichlorobenzene	<0.00040		0.0010	0.00040	mg/Kg			04/08/22 16:11	1
1,4-Dichlorobenzene	<0.00036		0.0010	0.00036	mg/Kg			04/08/22 16:11	1
Dichlorodifluoromethane	<0.00067		0.0030	0.00067	mg/Kg			04/08/22 16:11	1
1,1-Dichloroethane	<0.00041		0.0010	0.00041	mg/Kg			04/08/22 16:11	1
1,2-Dichloroethane	<0.00039		0.0010	0.00039	mg/Kg			04/08/22 16:11	1
1,1-Dichloroethene	<0.00039		0.0010	0.00039	mg/Kg			04/08/22 16:11	1
1,2-Dichloropropane	<0.00043		0.0010	0.00043	mg/Kg			04/08/22 16:11	1
1,3-Dichloropropane	<0.00036		0.0010	0.00036	mg/Kg			04/08/22 16:11	1
2,2-Dichloropropane	<0.00044		0.0010	0.00044	mg/Kg			04/08/22 16:11	1
1,1-Dichloropropene	<0.00030		0.0010	0.00030	mg/Kg			04/08/22 16:11	1
Ethylbenzene	<0.00018		0.00025	0.00018	mg/Kg			04/08/22 16:11	1
Hexachlorobutadiene	<0.00045		0.0010	0.00045	mg/Kg			04/08/22 16:11	1
Isopropylbenzene	<0.00038		0.0010	0.00038	mg/Kg			04/08/22 16:11	1
Isopropyl ether	<0.00028		0.0010	0.00028	mg/Kg			04/08/22 16:11	1
Methylene Chloride	0.00287	J	0.0050	0.0016	mg/Kg			04/08/22 16:11	1
Methyl tert-butyl ether	<0.00039		0.0010	0.00039	mg/Kg			04/08/22 16:11	1
Naphthalene	<0.00033		0.0010	0.00033	mg/Kg			04/08/22 16:11	1
n-Butylbenzene	<0.00039		0.0010	0.00039	mg/Kg			04/08/22 16:11	1
N-Propylbenzene	<0.00041		0.0010	0.00041	mg/Kg			04/08/22 16:11	1
p-Isopropyltoluene	<0.00036		0.0010	0.00036	mg/Kg			04/08/22 16:11	1
sec-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			04/08/22 16:11	1
Styrene	<0.00039		0.0010	0.00039	mg/Kg			04/08/22 16:11	1
tert-Butylbenzene	<0.00040		0.0010	0.00040	mg/Kg			04/08/22 16:11	1
1,1,1,2-Tetrachloroethane	<0.00046		0.0010	0.00046	mg/Kg			04/08/22 16:11	1
1,1,2,2-Tetrachloroethane	<0.00040		0.0010	0.00040	mg/Kg			04/08/22 16:11	1
Tetrachloroethene	<0.00037		0.0010	0.00037	mg/Kg			04/08/22 16:11	1
Toluene	<0.00015		0.00025	0.00015	mg/Kg			04/08/22 16:11	1
trans-1,2-Dichloroethene	<0.00035		0.0010	0.00035	mg/Kg			04/08/22 16:11	1
trans-1,3-Dichloropropene	<0.00036		0.0010	0.00036	mg/Kg			04/08/22 16:11	1
1,2,3-Trichlorobenzene	<0.00046		0.0010	0.00046	mg/Kg			04/08/22 16:11	1
1,2,4-Trichlorobenzene	<0.00034		0.0010	0.00034	mg/Kg			04/08/22 16:11	1
1,1,1-Trichloroethane	<0.00038		0.0010	0.00038	mg/Kg			04/08/22 16:11	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: MB 500-650933/7
Matrix: Solid
Analysis Batch: 650933

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.00035		0.0010	0.00035	mg/Kg			04/08/22 16:11	1
Trichloroethene	<0.00016		0.00050	0.00016	mg/Kg			04/08/22 16:11	1
Trichlorofluoromethane	<0.00043		0.0010	0.00043	mg/Kg			04/08/22 16:11	1
1,2,3-Trichloropropane	<0.00041		0.0020	0.00041	mg/Kg			04/08/22 16:11	1
1,2,4-Trimethylbenzene	<0.00036		0.0010	0.00036	mg/Kg			04/08/22 16:11	1
1,3,5-Trimethylbenzene	<0.00038		0.0010	0.00038	mg/Kg			04/08/22 16:11	1
Vinyl chloride	<0.00026		0.0010	0.00026	mg/Kg			04/08/22 16:11	1
Xylenes, Total	<0.00022		0.00050	0.00022	mg/Kg			04/08/22 16:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		72 - 124		04/08/22 16:11	1
Dibromofluoromethane (Surr)	98		75 - 120		04/08/22 16:11	1
1,2-Dichloroethane-d4 (Surr)	84		75 - 126		04/08/22 16:11	1
Toluene-d8 (Surr)	101		75 - 120		04/08/22 16:11	1

Lab Sample ID: LCS 500-650933/5
Matrix: Solid
Analysis Batch: 650933

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0480		mg/Kg		96	70 - 120
Bromobenzene	0.0500	0.0511		mg/Kg		102	70 - 122
Bromochloromethane	0.0500	0.0478		mg/Kg		96	65 - 122
Bromodichloromethane	0.0500	0.0408		mg/Kg		82	69 - 120
Bromoform	0.0500	0.0411		mg/Kg		82	56 - 132
Bromomethane	0.0500	0.0532		mg/Kg		106	40 - 152
Carbon tetrachloride	0.0500	0.0475		mg/Kg		95	59 - 133
Chlorobenzene	0.0500	0.0503		mg/Kg		101	70 - 120
Chloroethane	0.0500	0.0503		mg/Kg		101	48 - 136
Chloroform	0.0500	0.0427		mg/Kg		85	70 - 120
Chloromethane	0.0500	0.0478		mg/Kg		96	56 - 152
2-Chlorotoluene	0.0500	0.0501		mg/Kg		100	70 - 125
4-Chlorotoluene	0.0500	0.0479		mg/Kg		96	68 - 124
cis-1,2-Dichloroethene	0.0500	0.0487		mg/Kg		97	70 - 125
cis-1,3-Dichloropropene	0.0500	0.0449		mg/Kg		90	64 - 127
Dibromochloromethane	0.0500	0.0443		mg/Kg		89	68 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0406		mg/Kg		81	56 - 123
1,2-Dibromoethane	0.0500	0.0422		mg/Kg		84	70 - 125
Dibromomethane	0.0500	0.0426		mg/Kg		85	70 - 120
1,2-Dichlorobenzene	0.0500	0.0507		mg/Kg		101	70 - 125
1,3-Dichlorobenzene	0.0500	0.0494		mg/Kg		99	70 - 125
1,4-Dichlorobenzene	0.0500	0.0484		mg/Kg		97	70 - 120
Dichlorodifluoromethane	0.0500	0.0431		mg/Kg		86	40 - 159
1,1-Dichloroethane	0.0500	0.0470		mg/Kg		94	70 - 125
1,2-Dichloroethane	0.0500	0.0403		mg/Kg		81	68 - 127
1,1-Dichloroethene	0.0500	0.0492		mg/Kg		98	67 - 122
1,2-Dichloropropane	0.0500	0.0460		mg/Kg		92	67 - 130
1,3-Dichloropropane	0.0500	0.0430		mg/Kg		86	62 - 136

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: LCS 500-650933/5
Matrix: Solid
Analysis Batch: 650933

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,2-Dichloropropane	0.0500	0.0429		mg/Kg		86	58 - 139
1,1-Dichloropropene	0.0500	0.0503		mg/Kg		101	70 - 121
Ethylbenzene	0.0500	0.0474		mg/Kg		95	70 - 123
Hexachlorobutadiene	0.0500	0.0555		mg/Kg		111	51 - 150
Isopropylbenzene	0.0500	0.0561		mg/Kg		112	70 - 126
Methylene Chloride	0.0500	0.0487		mg/Kg		97	69 - 125
Methyl tert-butyl ether	0.0500	0.0371		mg/Kg		74	55 - 123
Naphthalene	0.0500	0.0541		mg/Kg		108	53 - 144
n-Butylbenzene	0.0500	0.0521		mg/Kg		104	68 - 125
N-Propylbenzene	0.0500	0.0527		mg/Kg		105	69 - 127
p-Isopropyltoluene	0.0500	0.0565		mg/Kg		113	70 - 125
sec-Butylbenzene	0.0500	0.0568		mg/Kg		114	70 - 123
Styrene	0.0500	0.0457		mg/Kg		91	70 - 120
tert-Butylbenzene	0.0500	0.0583		mg/Kg		117	70 - 121
1,1,1,2-Tetrachloroethane	0.0500	0.0504		mg/Kg		101	70 - 125
1,1,2,2-Tetrachloroethane	0.0500	0.0448		mg/Kg		90	62 - 140
Tetrachloroethene	0.0500	0.0554		mg/Kg		111	70 - 128
Toluene	0.0500	0.0528		mg/Kg		106	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0492		mg/Kg		98	70 - 125
trans-1,3-Dichloropropene	0.0500	0.0394		mg/Kg		79	62 - 128
1,2,3-Trichlorobenzene	0.0500	0.0577		mg/Kg		115	51 - 145
1,2,4-Trichlorobenzene	0.0500	0.0535		mg/Kg		107	57 - 137
1,1,1-Trichloroethane	0.0500	0.0449		mg/Kg		90	70 - 125
1,1,2-Trichloroethane	0.0500	0.0446		mg/Kg		89	71 - 130
Trichloroethene	0.0500	0.0549		mg/Kg		110	70 - 125
Trichlorofluoromethane	0.0500	0.0424		mg/Kg		85	55 - 128
1,2,3-Trichloropropane	0.0500	0.0453		mg/Kg		91	50 - 133
1,2,4-Trimethylbenzene	0.0500	0.0516		mg/Kg		103	70 - 123
1,3,5-Trimethylbenzene	0.0500	0.0537		mg/Kg		107	70 - 123
Vinyl chloride	0.0500	0.0458		mg/Kg		92	64 - 126
Xylenes, Total	0.100	0.0899		mg/Kg		90	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		72 - 124
Dibromofluoromethane (Surr)	93		75 - 120
1,2-Dichloroethane-d4 (Surr)	78		75 - 126
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: MB 500-651067/7
Matrix: Solid
Analysis Batch: 651067

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.0010	0.00050	mg/L			04/11/22 10:55	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			04/11/22 10:55	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			04/11/22 10:55	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			04/11/22 10:55	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			04/11/22 10:55	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: MB 500-651067/7
Matrix: Solid
Analysis Batch: 651067

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			04/11/22 10:55	1
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			04/11/22 10:55	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			04/11/22 10:55	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			04/11/22 10:55	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			04/11/22 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		72 - 124		04/11/22 10:55	1
Dibromofluoromethane (Surr)	96		75 - 120		04/11/22 10:55	1
1,2-Dichloroethane-d4 (Surr)	98		75 - 126		04/11/22 10:55	1
Toluene-d8 (Surr)	93		75 - 120		04/11/22 10:55	1

Lab Sample ID: LCS 500-651067/5
Matrix: Solid
Analysis Batch: 651067

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.0509		mg/L		102	70 - 120
Methyl Ethyl Ketone	0.0500	0.0520		mg/L		104	46 - 144
Carbon tetrachloride	0.0500	0.0542		mg/L		108	59 - 133
Chlorobenzene	0.0500	0.0507		mg/L		101	70 - 120
Chloroform	0.0500	0.0497		mg/L		99	70 - 120
1,2-Dichloroethane	0.0500	0.0532		mg/L		106	68 - 127
1,1-Dichloroethene	0.0500	0.0508		mg/L		102	67 - 122
Tetrachloroethene	0.0500	0.0518		mg/L		104	70 - 128
Trichloroethene	0.0500	0.0533		mg/L		107	70 - 125
Vinyl chloride	0.0500	0.0506		mg/L		101	64 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		72 - 124
Dibromofluoromethane (Surr)	98		75 - 120
1,2-Dichloroethane-d4 (Surr)	97		75 - 126
Toluene-d8 (Surr)	96		75 - 120

Lab Sample ID: LB 500-651030/1-A
Matrix: Solid
Analysis Batch: 651067

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.010		0.020	0.010	mg/L			04/11/22 11:19	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			04/11/22 11:19	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			04/11/22 11:19	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			04/11/22 11:19	20
Chloroform	<0.020		0.040	0.020	mg/L			04/11/22 11:19	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			04/11/22 11:19	20
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			04/11/22 11:19	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			04/11/22 11:19	20
Trichloroethene	<0.010		0.020	0.010	mg/L			04/11/22 11:19	20

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: LB 500-651030/1-A
Matrix: Solid
Analysis Batch: 651067

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.010		0.020	0.010	mg/L			04/11/22 11:19	20
Surrogate	LB %Recovery	LB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		72 - 124					04/11/22 11:19	20
Dibromofluoromethane (Surr)	98		75 - 120					04/11/22 11:19	20
1,2-Dichloroethane-d4 (Surr)	97		75 - 126					04/11/22 11:19	20
Toluene-d8 (Surr)	94		75 - 120					04/11/22 11:19	20

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

Lab Sample ID: MB 500-650734/1-A
Matrix: Solid
Analysis Batch: 650905

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 650734

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		04/07/22 14:32	04/08/22 15:24	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		04/07/22 14:32	04/08/22 15:24	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		04/07/22 14:32	04/08/22 15:24	1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		04/07/22 14:32	04/08/22 15:24	1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		04/07/22 14:32	04/08/22 15:24	1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		04/07/22 14:32	04/08/22 15:24	1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		04/07/22 14:32	04/08/22 15:24	1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		04/07/22 14:32	04/08/22 15:24	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		04/07/22 14:32	04/08/22 15:24	1
Pyridine	<0.020		0.020	0.020	mg/L		04/07/22 14:32	04/08/22 15:24	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		04/07/22 14:32	04/08/22 15:24	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		04/07/22 14:32	04/08/22 15:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	52		27 - 110				04/07/22 14:32	04/08/22 15:24	1
2-Fluorobiphenyl (Surr)	51		34 - 110				04/07/22 14:32	04/08/22 15:24	1
Phenol-d5 (Surr)	19	S1-	20 - 100				04/07/22 14:32	04/08/22 15:24	1
2,4,6-Tribromophenol (Surr)	53		40 - 145				04/07/22 14:32	04/08/22 15:24	1
Nitrobenzene-d5 (Surr)	51		36 - 120				04/07/22 14:32	04/08/22 15:24	1
Terphenyl-d14 (Surr)	98		40 - 145				04/07/22 14:32	04/08/22 15:24	1

Lab Sample ID: LCS 500-650734/2-A
Matrix: Solid
Analysis Batch: 650905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 650734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	0.0400	0.0268		mg/L		67	23 - 110
2,4-Dinitrotoluene	0.0400	0.0418		mg/L		104	63 - 129
Hexachlorobenzene	0.0400	0.0399		mg/L		100	61 - 126
Hexachlorobutadiene	0.0400	0.0260		mg/L		65	20 - 100
Hexachloroethane	0.0400	0.0274		mg/L		68	20 - 100
2-Methylphenol	0.0400	0.0366		mg/L		91	53 - 115
3 & 4 Methylphenol	0.0400	0.0361		mg/L		90	50 - 116

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: LCS 500-650734/2-A
Matrix: Solid
Analysis Batch: 650905

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 650734

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrobenzene	0.0400	0.0362		mg/L		91	54 - 121
Pentachlorophenol	0.0800	0.0576		mg/L		72	42 - 148
Pyridine	0.0800	0.0409		mg/L		51	15 - 110
2,4,5-Trichlorophenol	0.0400	0.0421		mg/L		105	63 - 124
2,4,6-Trichlorophenol	0.0400	0.0396		mg/L		99	62 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorophenol (Surr)	56		27 - 110
2-Fluorobiphenyl (Surr)	105		34 - 110
Phenol-d5 (Surr)	41		20 - 100
2,4,6-Tribromophenol (Surr)	80		40 - 145
Nitrobenzene-d5 (Surr)	86		36 - 120
Terphenyl-d14 (Surr)	100		40 - 145

Lab Sample ID: MB 500-651242/1-A
Matrix: Solid
Analysis Batch: 651436

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 651242

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0060		0.033	0.0060	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Acenaphthylene	<0.0044		0.033	0.0044	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Anthracene	<0.0056		0.033	0.0056	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Benzo[a]anthracene	<0.0045		0.033	0.0045	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Benzo[a]pyrene	<0.0064		0.033	0.0064	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Benzo[b]fluoranthene	<0.0072		0.033	0.0072	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Benzo[g,h,i]perylene	<0.011		0.033	0.011	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Benzo[k]fluoranthene	<0.0098		0.033	0.0098	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Chrysene	<0.0091		0.033	0.0091	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Dibenz(a,h)anthracene	<0.0064		0.033	0.0064	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Fluoranthene	<0.0062		0.033	0.0062	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Fluorene	<0.0047		0.033	0.0047	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Indeno[1,2,3-cd]pyrene	<0.0086		0.033	0.0086	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
1-Methylnaphthalene	<0.0081		0.067	0.0081	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
2-Methylnaphthalene	<0.0061		0.067	0.0061	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Naphthalene	<0.0051		0.033	0.0051	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Phenanthrene	<0.0046		0.033	0.0046	mg/Kg		04/12/22 06:34	04/13/22 08:53	1
Pyrene	<0.0066		0.033	0.0066	mg/Kg		04/12/22 06:34	04/13/22 08:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	85		43 - 145	04/12/22 06:34	04/13/22 08:53	1
Nitrobenzene-d5 (Surr)	74		37 - 147	04/12/22 06:34	04/13/22 08:53	1
Terphenyl-d14 (Surr)	98		42 - 157	04/12/22 06:34	04/13/22 08:53	1

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: LCS 500-651242/2-A
Matrix: Solid
Analysis Batch: 651436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 651242

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	1.33	1.23		mg/Kg		92	65 - 124
Acenaphthylene	1.33	1.23		mg/Kg		93	68 - 120
Anthracene	1.33	1.28		mg/Kg		96	70 - 114
Benzo[a]anthracene	1.33	1.18		mg/Kg		89	67 - 122
Benzo[a]pyrene	1.33	1.33		mg/Kg		100	65 - 133
Benzo[b]fluoranthene	1.33	1.23		mg/Kg		93	69 - 129
Benzo[g,h,i]perylene	1.33	1.50		mg/Kg		112	72 - 131
Benzo[k]fluoranthene	1.33	1.23		mg/Kg		92	68 - 127
Chrysene	1.33	1.23		mg/Kg		92	63 - 120
Dibenz(a,h)anthracene	1.33	1.53		mg/Kg		114	64 - 131
Fluoranthene	1.33	1.32		mg/Kg		99	62 - 120
Fluorene	1.33	1.26		mg/Kg		94	62 - 120
Indeno[1,2,3-cd]pyrene	1.33	1.50		mg/Kg		113	68 - 130
1-Methylnaphthalene	1.33	1.19		mg/Kg		89	68 - 111
2-Methylnaphthalene	1.33	1.21		mg/Kg		91	69 - 112
Naphthalene	1.33	1.15		mg/Kg		86	63 - 110
Phenanthrene	1.33	1.22		mg/Kg		92	62 - 120
Pyrene	1.33	1.19		mg/Kg		89	61 - 128

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	91		43 - 145
Nitrobenzene-d5 (Surr)	83		37 - 147
Terphenyl-d14 (Surr)	90		42 - 157

Lab Sample ID: LB2 500-650575/1-B
Matrix: Solid
Analysis Batch: 650905

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 650734

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		04/07/22 14:32	04/08/22 17:00	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		04/07/22 14:32	04/08/22 17:00	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		04/07/22 14:32	04/08/22 17:00	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		04/07/22 14:32	04/08/22 17:00	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		04/07/22 14:32	04/08/22 17:00	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		04/07/22 14:32	04/08/22 17:00	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		04/07/22 14:32	04/08/22 17:00	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		04/07/22 14:32	04/08/22 17:00	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		04/07/22 14:32	04/08/22 17:00	1
Pyridine	<0.20		0.20	0.20	mg/L		04/07/22 14:32	04/08/22 17:00	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		04/07/22 14:32	04/08/22 17:00	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		04/07/22 14:32	04/08/22 17:00	1

Surrogate	LB2 %Recovery	LB2 Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol (Surr)	55		27 - 110	04/07/22 14:32	04/08/22 17:00	1
2-Fluorobiphenyl (Surr)	73		34 - 110	04/07/22 14:32	04/08/22 17:00	1
Phenol-d5 (Surr)	25		20 - 100	04/07/22 14:32	04/08/22 17:00	1
2,4,6-Tribromophenol (Surr)	81		40 - 145	04/07/22 14:32	04/08/22 17:00	1
Nitrobenzene-d5 (Surr)	76		36 - 120	04/07/22 14:32	04/08/22 17:00	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: LB2 500-650575/1-B
Matrix: Solid
Analysis Batch: 650905

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 650734

Surrogate	LB2 LB2		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Terphenyl-d14 (Surr)	126		40 - 145	04/07/22 14:32	04/08/22 17:00	1

Lab Sample ID: 500-214387-15 MS
Matrix: Solid
Analysis Batch: 651037

Client Sample ID: B-3, 15.5-17'
Prep Type: TCLP
Prep Batch: 650734

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
1,4-Dichlorobenzene	<0.020		0.800	0.595		mg/L		74	23 - 110
2,4-Dinitrotoluene	<0.010		0.800	0.687		mg/L		86	63 - 129
Hexachlorobenzene	<0.0050		0.800	0.940		mg/L		118	61 - 126
Hexachlorobutadiene	<0.050	*3	0.800	0.668		mg/L		83	20 - 100
Hexachloroethane	<0.050		0.800	0.352		mg/L		44	20 - 100
2-Methylphenol	<0.020		0.800	0.550		mg/L		69	53 - 115
3 & 4 Methylphenol	<0.020		0.800	0.510		mg/L		64	50 - 116
Nitrobenzene	<0.010	*3	0.800	0.691		mg/L		86	54 - 121
Pentachlorophenol	<0.20		1.60	0.932		mg/L		58	42 - 148
Pyridine	<0.20		1.60	0.739		mg/L		46	15 - 110
2,4,5-Trichlorophenol	<0.10		0.800	0.743		mg/L		93	63 - 124
2,4,6-Trichlorophenol	<0.050		0.800	0.745		mg/L		93	62 - 121

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
2-Fluorophenol (Surr)	60		27 - 110
2-Fluorobiphenyl (Surr)	91		34 - 110
Phenol-d5 (Surr)	36		20 - 100
2,4,6-Tribromophenol (Surr)	102		40 - 145
Nitrobenzene-d5 (Surr)	82		36 - 120
Terphenyl-d14 (Surr)	133		40 - 145

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

Lab Sample ID: MB 500-651026/1-A
Matrix: Solid
Analysis Batch: 651461

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 651026

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.0066		0.017	0.0066	mg/Kg		04/11/22 06:40	04/13/22 09:06	1
PCB-1221	<0.0066		0.017	0.0066	mg/Kg		04/11/22 06:40	04/13/22 09:06	1
PCB-1232	<0.0045		0.017	0.0045	mg/Kg		04/11/22 06:40	04/13/22 09:06	1
PCB-1242	<0.0065		0.017	0.0065	mg/Kg		04/11/22 06:40	04/13/22 09:06	1
PCB-1248	<0.0079		0.017	0.0079	mg/Kg		04/11/22 06:40	04/13/22 09:06	1
PCB-1254	<0.0057		0.017	0.0057	mg/Kg		04/11/22 06:40	04/13/22 09:06	1
PCB-1260	<0.0063		0.017	0.0063	mg/Kg		04/11/22 06:40	04/13/22 09:06	1
Polychlorinated biphenyls, Total	<0.0045		0.017	0.0045	mg/Kg		04/11/22 06:40	04/13/22 09:06	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	95		49 - 129	04/11/22 06:40	04/13/22 09:06	1
DCB Decachlorobiphenyl	107		37 - 121	04/11/22 06:40	04/13/22 09:06	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: LCS 500-651026/2-A
Matrix: Solid
Analysis Batch: 651461

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 651026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.151		mg/Kg		90	57 - 120
PCB-1260	0.167	0.162		mg/Kg		97	61 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	96		49 - 129
DCB Decachlorobiphenyl	93		37 - 121

Lab Sample ID: MB 500-651428/1-A
Matrix: Solid
Analysis Batch: 651796

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 651428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.0066		0.017	0.0066	mg/Kg		04/13/22 06:04	04/14/22 19:21	1
PCB-1221	<0.0066		0.017	0.0066	mg/Kg		04/13/22 06:04	04/14/22 19:21	1
PCB-1232	<0.0045		0.017	0.0045	mg/Kg		04/13/22 06:04	04/14/22 19:21	1
PCB-1242	<0.0065		0.017	0.0065	mg/Kg		04/13/22 06:04	04/14/22 19:21	1
PCB-1248	<0.0079		0.017	0.0079	mg/Kg		04/13/22 06:04	04/14/22 19:21	1
PCB-1254	<0.0057		0.017	0.0057	mg/Kg		04/13/22 06:04	04/14/22 19:21	1
PCB-1260	<0.0063		0.017	0.0063	mg/Kg		04/13/22 06:04	04/14/22 19:21	1
Polychlorinated biphenyls, Total	<0.0045		0.017	0.0045	mg/Kg		04/13/22 06:04	04/14/22 19:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	122		49 - 129	04/13/22 06:04	04/14/22 19:21	1
DCB Decachlorobiphenyl	109		37 - 121	04/13/22 06:04	04/14/22 19:21	1

Lab Sample ID: LCS 500-651428/3-A
Matrix: Solid
Analysis Batch: 651796

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 651428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	0.167	0.147		mg/Kg		88	57 - 120
PCB-1260	0.167	0.146		mg/Kg		88	61 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	105		49 - 129
DCB Decachlorobiphenyl	94		37 - 121

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-650760/15-A
Matrix: Solid
Analysis Batch: 650948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 650760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.101		mg/L		101	80 - 120
Barium	0.500	0.512		mg/L		102	80 - 120
Cadmium	0.0500	0.0494		mg/L		99	80 - 120
Chromium	0.200	0.191		mg/L		96	80 - 120

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: LCS 500-650760/15-A
Matrix: Solid
Analysis Batch: 650948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 650760

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.250	0.263		mg/L		105	80 - 120
Lead	0.100	0.0910		mg/L		91	80 - 120
Nickel	0.500	0.477		mg/L		95	80 - 120
Selenium	0.100	0.0962		mg/L		96	80 - 120
Silver	0.0500	0.0460		mg/L		92	80 - 120
Zinc	0.500	0.469		mg/L		94	80 - 120

Lab Sample ID: MB 500-651019/1-A
Matrix: Solid
Analysis Batch: 651314

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 651019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		04/11/22 08:00	04/11/22 15:56	1
Barium	<0.11		1.0	0.11	mg/Kg		04/11/22 08:00	04/11/22 15:56	1
Cadmium	0.0411	J	0.20	0.036	mg/Kg		04/11/22 08:00	04/11/22 15:56	1
Lead	<0.23		0.50	0.23	mg/Kg		04/11/22 08:00	04/11/22 15:56	1
Selenium	<0.59		1.0	0.59	mg/Kg		04/11/22 08:00	04/11/22 15:56	1
Silver	<0.13		0.50	0.13	mg/Kg		04/11/22 08:00	04/11/22 15:56	1

Lab Sample ID: MB 500-651019/1-A
Matrix: Solid
Analysis Batch: 651512

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 651019

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.962	J	1.0	0.50	mg/Kg		04/11/22 08:00	04/12/22 12:16	1

Lab Sample ID: LCS 500-651019/2-A
Matrix: Solid
Analysis Batch: 651314

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 651019

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	10.0	9.17		mg/Kg		92	80 - 120
Barium	200	198		mg/Kg		99	80 - 120
Cadmium	5.00	4.65		mg/Kg		93	80 - 120
Chromium	20.0	19.7		mg/Kg		99	80 - 120
Lead	10.0	8.81		mg/Kg		88	80 - 120
Selenium	10.0	8.55		mg/Kg		85	80 - 120
Silver	5.00	4.43		mg/Kg		89	80 - 120

Lab Sample ID: 500-214387-1 MS
Matrix: Solid
Analysis Batch: 651314

Client Sample ID: B-10, 1-2.5'
Prep Type: Total/NA
Prep Batch: 651019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	3.7		10.1	12.9		mg/Kg	☼	91	75 - 125
Barium	54		201	240		mg/Kg	☼	93	75 - 125
Cadmium	0.18	J B	5.03	4.70		mg/Kg	☼	90	75 - 125
Chromium	19	B	20.1	38.3		mg/Kg	☼	98	75 - 125
Lead	13		10.1	24.6		mg/Kg	☼	111	75 - 125
Selenium	<0.62		10.1	8.15		mg/Kg	☼	81	75 - 125

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

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

Lab Sample ID: 500-214387-1 MS
Matrix: Solid
Analysis Batch: 651314

Client Sample ID: B-10, 1-2.5'
Prep Type: Total/NA
Prep Batch: 651019

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.30	J	5.03	4.75		mg/Kg	⊛	88	75 - 125

Lab Sample ID: 500-214387-1 MSD
Matrix: Solid
Analysis Batch: 651314

Client Sample ID: B-10, 1-2.5'
Prep Type: Total/NA
Prep Batch: 651019

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	3.7		9.62	12.7		mg/Kg	⊛	94	75 - 125	1	20
Barium	54		192	231		mg/Kg	⊛	92	75 - 125	4	20
Cadmium	0.18	J B	4.81	4.45		mg/Kg	⊛	89	75 - 125	6	20
Chromium	19	B	19.2	38.5		mg/Kg	⊛	103	75 - 125	0	20
Lead	13		9.62	23.8		mg/Kg	⊛	107	75 - 125	4	20
Selenium	<0.62		9.62	7.64		mg/Kg	⊛	79	75 - 125	6	20
Silver	0.30	J	4.81	4.61		mg/Kg	⊛	90	75 - 125	3	20

Lab Sample ID: 500-214387-1 DU
Matrix: Solid
Analysis Batch: 651314

Client Sample ID: B-10, 1-2.5'
Prep Type: Total/NA
Prep Batch: 651019

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	3.7		4.52	F5	mg/Kg	⊛	21	20
Barium	54		56.9		mg/Kg	⊛	6	20
Cadmium	0.18	J B	0.163	J	mg/Kg	⊛	8	20
Chromium	19	B	20.3		mg/Kg	⊛	9	20
Lead	13		16.0		mg/Kg	⊛	17	20
Selenium	<0.62		<0.60		mg/Kg	⊛	NC	20
Silver	0.30	J	0.299	J	mg/Kg	⊛	0.9	20

Lab Sample ID: LB2 500-650575/1-C
Matrix: Solid
Analysis Batch: 650948

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 650760

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		04/07/22 17:27	04/08/22 11:08	1
Barium	<0.050		0.50	0.050	mg/L		04/07/22 17:27	04/08/22 11:08	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		04/07/22 17:27	04/08/22 11:08	1
Chromium	<0.010		0.025	0.010	mg/L		04/07/22 17:27	04/08/22 11:08	1
Copper	<0.010		0.025	0.010	mg/L		04/07/22 17:27	04/08/22 11:08	1
Lead	<0.0075		0.050	0.0075	mg/L		04/07/22 17:27	04/08/22 11:08	1
Nickel	<0.010		0.025	0.010	mg/L		04/07/22 17:27	04/08/22 11:08	1
Selenium	<0.020		0.050	0.020	mg/L		04/07/22 17:27	04/08/22 11:08	1
Silver	<0.010		0.025	0.010	mg/L		04/07/22 17:27	04/08/22 11:08	1
Zinc	<0.020		0.10	0.020	mg/L		04/07/22 17:27	04/08/22 11:08	1

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-650738/12-A
Matrix: Solid
Analysis Batch: 650926

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 650738

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		04/07/22 14:35	04/08/22 10:34	1

Lab Sample ID: LCS 500-650738/27-A
Matrix: Solid
Analysis Batch: 650926

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 650738

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00214		mg/L		107	80 - 120

Lab Sample ID: LB2 500-650575/2-B
Matrix: Solid
Analysis Batch: 650926

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 650738

Analyte	LB2 Result	LB2 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		04/07/22 14:35	04/08/22 11:13	1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 500-650883/12-A
Matrix: Solid
Analysis Batch: 651148

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 650883

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		04/08/22 13:40	04/11/22 10:24	1

Lab Sample ID: LCS 500-650883/13-A
Matrix: Solid
Analysis Batch: 651148

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 650883

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.167	0.181		mg/Kg		109	80 - 120

Lab Sample ID: 500-214387-6 MS
Matrix: Solid
Analysis Batch: 651148

Client Sample ID: B-9, 13.5-15'
Prep Type: Total/NA
Prep Batch: 650883

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.016	J	0.0945	0.129		mg/Kg	☼	119	75 - 125

Lab Sample ID: 500-214387-6 MSD
Matrix: Solid
Analysis Batch: 651148

Client Sample ID: B-9, 13.5-15'
Prep Type: Total/NA
Prep Batch: 650883

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.016	J	0.0942	0.125		mg/Kg	☼	115	75 - 125	3	20

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 500-214387-6 DU
 Matrix: Solid
 Analysis Batch: 651148

Client Sample ID: B-9, 13.5-15'
 Prep Type: Total/NA
 Prep Batch: 650883

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Mercury	0.016	J	0.0205	F5	mg/Kg	☼	24	20

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-651130/1-A
 Matrix: Solid
 Analysis Batch: 651173

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 651130

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cyanide	<0.12		0.24	0.12	mg/Kg		04/11/22 10:52	04/11/22 12:54	1

Lab Sample ID: HLCS 500-651130/2-A
 Matrix: Solid
 Analysis Batch: 651173

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 651130

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LCS 500-651130/3-A
 Matrix: Solid
 Analysis Batch: 651173

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 651130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: LLCS 500-651130/4-A
 Matrix: Solid
 Analysis Batch: 651173

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 651130

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: LCS 500-650349/2-A
 Matrix: Solid
 Analysis Batch: 651403

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 650349

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Method: 9045D - pH

Lab Sample ID: 500-214387-15 DU
 Matrix: Solid
 Analysis Batch: 651227

Client Sample ID: B-3, 15.5-17'
 Prep Type: Total/NA

Analyte	Sample	Sample	DU		Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
pH	7.4	HF	7.4		SU		0	

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Method: 9095B - Paint Filter

Lab Sample ID: 500-214387-15 DU
 Matrix: Solid
 Analysis Batch: 650959

Client Sample ID: B-3, 15.5-17'
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Paint Filter	Pass		Pass		No Unit		NC	

Method: 9251 - Chlorine, Total

Lab Sample ID: MB 680-715467/1-A
 Matrix: Solid
 Analysis Batch: 715472

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 715467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Chlorine	<0.020		0.020	0.020	%		04/12/22 19:23	04/12/22 20:51	1

Lab Sample ID: LCS 680-715467/2-A
 Matrix: Solid
 Analysis Batch: 715472

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 715467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Total Chlorine	0.990	0.783		%		79	70 - 130

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-10, 1-2.5'

Lab Sample ID: 500-214387-1

Date Collected: 03/29/22 09:30

Matrix: Solid

Date Received: 03/31/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Client Sample ID: B-10, 1-2.5'

Lab Sample ID: 500-214387-1

Date Collected: 03/29/22 09:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			649964	04/03/22 18:39	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 13:47	PMF	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651656	04/14/22 17:50	NB	TAL CHI
Total/NA	Prep	3541			651026	04/11/22 06:40	FRG	TAL CHI
Total/NA	Analysis	8082A		1	651461	04/13/22 21:14	JB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 16:02	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 10:37	MJG	TAL CHI

Client Sample ID: B-10, 8.5-10'

Lab Sample ID: 500-214387-2

Date Collected: 03/29/22 09:50

Matrix: Solid

Date Received: 03/31/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Client Sample ID: B-10, 8.5-10'

Lab Sample ID: 500-214387-2

Date Collected: 03/29/22 09:50

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 09:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 14:13	PMF	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651442	04/13/22 10:11	JSB	TAL CHI
Total/NA	Prep	3541			651026	04/11/22 06:40	FRG	TAL CHI
Total/NA	Analysis	8082A		1	651461	04/13/22 21:30	JB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 16:25	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 10:39	MJG	TAL CHI

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-10, 18.5-20'
Date Collected: 03/29/22 10:30
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Client Sample ID: B-10, 18.5-20'
Date Collected: 03/29/22 10:30
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-3
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 10:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 14:40	PMF	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651442	04/13/22 10:33	JSB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 16:28	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 10:41	MJG	TAL CHI

Client Sample ID: B-9, 1-2.5'
Date Collected: 03/29/22 10:55
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Client Sample ID: B-9, 1-2.5'
Date Collected: 03/29/22 10:55
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-4
Matrix: Solid
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 10:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 15:06	PMF	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651656	04/14/22 18:14	NB	TAL CHI
Total/NA	Prep	3541			651026	04/11/22 06:40	FRG	TAL CHI
Total/NA	Analysis	8082A		1	651461	04/13/22 21:46	JB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 16:31	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 10:42	MJG	TAL CHI

Client Sample ID: B-9, 8.5-10'
Date Collected: 03/29/22 11:15
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-9, 8.5-10'

Lab Sample ID: 500-214387-5

Date Collected: 03/29/22 11:15

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 11:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 15:33	PMF	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651656	04/14/22 18:38	NB	TAL CHI
Total/NA	Prep	3541			651026	04/11/22 06:40	FRG	TAL CHI
Total/NA	Analysis	8082A		1	651461	04/13/22 22:02	JB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 16:35	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 10:44	MJG	TAL CHI

Client Sample ID: B-9, 13.5-15'

Lab Sample ID: 500-214387-6

Date Collected: 03/29/22 11:35

Matrix: Solid

Date Received: 03/31/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Client Sample ID: B-9, 13.5-15'

Lab Sample ID: 500-214387-6

Date Collected: 03/29/22 11:35

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 11:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 15:59	PMF	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651656	04/14/22 19:02	NB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 16:38	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 10:46	MJG	TAL CHI

Client Sample ID: B-8, 1-2.5'

Lab Sample ID: 500-214387-7

Date Collected: 03/29/22 12:25

Matrix: Solid

Date Received: 03/31/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Client Sample ID: B-8, 1-2.5'

Lab Sample ID: 500-214387-7

Date Collected: 03/29/22 12:25

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 12:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 16:25	PMF	TAL CHI

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Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-8, 1-2.5'
Date Collected: 03/29/22 12:25
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-7
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541	DL		651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D	DL	5	651898	04/15/22 13:31	JSB	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651442	04/13/22 13:58	JSB	TAL CHI
Total/NA	Prep	3541			651026	04/11/22 06:40	FRG	TAL CHI
Total/NA	Analysis	8082A		1	651461	04/13/22 22:17	JBj	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 16:41	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 10:57	MJG	TAL CHI

Client Sample ID: B-8, 8.5-10'
Date Collected: 03/29/22 12:40
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Client Sample ID: B-8, 8.5-10'
Date Collected: 03/29/22 12:40
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-8
Matrix: Solid
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 12:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 16:51	PMF	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651656	04/14/22 19:26	NB	TAL CHI
Total/NA	Prep	3541			651026	04/11/22 06:40	FRG	TAL CHI
Total/NA	Analysis	8082A		1	651461	04/13/22 22:33	JBj	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 16:51	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 10:59	MJG	TAL CHI

Client Sample ID: B-7, 1-2.5'
Date Collected: 03/29/22 13:30
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-7, 1-2.5'
Date Collected: 03/29/22 13:30
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-9
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 13:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 17:17	PMF	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651656	04/14/22 19:50	NB	TAL CHI
Total/NA	Prep	3541			651026	04/11/22 06:40	FRG	TAL CHI
Total/NA	Analysis	8082A		1	651461	04/13/22 22:49	JB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 16:54	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 11:01	MJG	TAL CHI

Client Sample ID: B-7, 8.5-10'
Date Collected: 03/29/22 13:45
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Client Sample ID: B-7, 8.5-10'
Date Collected: 03/29/22 13:45
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-10
Matrix: Solid
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 13:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 17:44	PMF	TAL CHI
Total/NA	Prep	3541	DL		651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D	DL	5	651898	04/15/22 13:55	JSB	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651442	04/13/22 15:06	JSB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 16:58	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 11:03	MJG	TAL CHI

Client Sample ID: B-3, 1-2.5'
Date Collected: 03/29/22 14:40
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 1-2.5'
Date Collected: 03/29/22 14:40
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-11
Matrix: Solid
Percent Solids: 90.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 14:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 18:10	PMF	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651898	04/15/22 14:19	JSB	TAL CHI
Total/NA	Prep	3541			651026	04/11/22 06:40	FRG	TAL CHI
Total/NA	Analysis	8082A		1	651461	04/13/22 23:05	JB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 17:01	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 11:04	MJG	TAL CHI

Client Sample ID: B-3, 8.5-10'
Date Collected: 03/29/22 15:05
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Client Sample ID: B-3, 8.5-10'
Date Collected: 03/29/22 15:05
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-12
Matrix: Solid
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 15:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 18:36	PMF	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651442	04/13/22 15:51	JSB	TAL CHI
Total/NA	Prep	3541			651428	04/13/22 06:04	FRG	TAL CHI
Total/NA	Analysis	8082A		1	651796	04/14/22 20:05	JB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 17:04	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 11:06	MJG	TAL CHI

Client Sample ID: B-2, 1-2.5'
Date Collected: 03/29/22 15:50
Date Received: 03/31/22 10:00

Lab Sample ID: 500-214387-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-2, 1-2.5'

Lab Sample ID: 500-214387-13

Date Collected: 03/29/22 15:50

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 15:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 19:02	PMF	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651898	04/15/22 12:43	JSB	TAL CHI
Total/NA	Prep	3541			651428	04/13/22 06:04	FRG	TAL CHI
Total/NA	Analysis	8082A		1	651796	04/14/22 20:20	JB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 17:07	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 11:08	MJG	TAL CHI

Client Sample ID: B-2, 5.5-7'

Lab Sample ID: 500-214387-14

Date Collected: 03/29/22 16:05

Matrix: Solid

Date Received: 03/31/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI

Client Sample ID: B-2, 5.5-7'

Lab Sample ID: 500-214387-14

Date Collected: 03/29/22 16:05

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 16:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 19:28	PMF	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651898	04/15/22 13:07	JSB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 17:11	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 11:10	MJG	TAL CHI

Client Sample ID: B-3, 15.5-17'

Lab Sample ID: 500-214387-15

Date Collected: 03/29/22 15:30

Matrix: Solid

Date Received: 03/31/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			651030	04/08/22 17:54	EA	TAL CHI
TCLP	Analysis	8260B		20	651067	04/11/22 13:45	STW	TAL CHI
TCLP	Leach	1311			650575	04/06/22 15:50	EA	TAL CHI
TCLP	Prep	3510C			650734	04/07/22 14:32	TS	TAL CHI
TCLP	Analysis	8270D		1	651037	04/11/22 19:49	JSB	TAL CHI
TCLP	Leach	1311			650575	04/06/22 15:50	EA	TAL CHI
TCLP	Prep	3010A			650760	04/07/22 17:27	LMB	TAL CHI
TCLP	Analysis	6010B		1	650948	04/08/22 11:21	JJB	TAL CHI

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Client Sample ID: B-3, 15.5-17'

Lab Sample ID: 500-214387-15

Date Collected: 03/29/22 15:30

Matrix: Solid

Date Received: 03/31/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			650575	04/06/22 15:50	EA	TAL CHI
TCLP	Prep	7470A			650738	04/07/22 14:35	MJG	TAL CHI
TCLP	Analysis	7470A		1	650926	04/08/22 11:17	MJG	TAL CHI
Total/NA	Prep	9010C			651130	04/11/22 10:52	SB	TAL CHI
Total/NA	Analysis	9012B		1	651173	04/11/22 13:07	SB	TAL CHI
Total/NA	Prep	9030B			650349	04/08/22 13:12	TMS	TAL CHI
Total/NA	Analysis	9034		1	651403	04/12/22 16:59	TMS	TAL CHI
Total/NA	Analysis	9045D		1	651227	04/11/22 19:22	LWN	TAL CHI
Total/NA	Analysis	9095B		1	650959		TMS	TAL CHI
					(Start)	04/08/22 13:19		
					(End)	04/08/22 13:24		
Total/NA	Prep	5050			715467	04/12/22 19:23	SM	TAL SAV
Total/NA	Analysis	9251		1	715472	04/12/22 20:51	SM	TAL SAV
Total/NA	Analysis	Moisture		1	650894	04/08/22 11:15	LWN	TAL CHI
Total/NA	Analysis	SM 2710F		1	650694	04/07/22 12:17	PFK	TAL CHI

Client Sample ID: B-3, 15.5-17'

Lab Sample ID: 500-214387-15

Date Collected: 03/29/22 15:30

Matrix: Solid

Date Received: 03/31/22 10:00

Percent Solids: 83.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			650631	04/07/22 07:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650933	04/08/22 16:34	JDD	TAL CHI
Total/NA	Prep	3541			651242	04/12/22 06:34	FRG	TAL CHI
Total/NA	Analysis	8270D		1	651442	04/13/22 17:00	JSB	TAL CHI
Total/NA	Prep	3541			651428	04/13/22 06:04	FRG	TAL CHI
Total/NA	Analysis	8082A		1	651796	04/14/22 20:35	JB	TAL CHI
Total/NA	Prep	3050B			651019	04/11/22 08:00	WRE	TAL CHI
Total/NA	Analysis	6010B		1	651314	04/11/22 17:14	JJB	TAL CHI
Total/NA	Prep	7471A			650883	04/08/22 13:40	MJG	TAL CHI
Total/NA	Analysis	7471A		1	651148	04/11/22 11:15	MJG	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-214387-16

Date Collected: 03/29/22 00:00

Matrix: Solid

Date Received: 03/31/22 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			649760	03/29/22 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	650006	04/04/22 13:20	PMF	TAL CHI

Laboratory References:

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Accreditation/Certification Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214387-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

Laboratory: Eurofins Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999819810	08-31-22

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500-214387

500-214387 COC

Sample Collector(s) Alex Huebner — Aileen Zebrowski	Staff Engineer	Telephone # (incl area code) (262) 821 1171	Report To Robert Reineke and Daniel Pelczar
Property Owner MMSD VA Grounds MIS Relocation	Property Address 5000 W National Ave Milwaukee WI	Telephone # (incl area code)	KSingh Project # 40459

I hereby certify that I received properly and disposed of the samples as noted below

Relinquished By (Signature) <i>Aileen Zebrowski</i>	Date/Time 3/31/22 330	Received By (Signature) <i>John E...</i>	Temperature Blank: 31-727 If samples were received on ice and there was ice remaining, you may report the temperature as "received on ice" If all of the ice was melted, the temperature of the melt may be substituted for the temperature blank.
Relinquished By (Signature) <i>John E...</i>	Date/Time 3/30/22 1700	Received By (Signature) <i>John E...</i>	3/31/22 1000

1 Specify groundwater (GW) soil (S) air (A) sludge (SL) surface water (SW) etc
2 Sample description must clearly correlate the sample ID to the sampling location

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Date Collected	Time Collected	Samples		Location/Description (2)	VOCs	PAHS	RCRA Metals	PCBs	PFAS	Landfill Protocol B	Sample Condition								
		Type (1)	Device								# / Type of Container				Other Comment				
												MeOH	HCL	H2SO4	Unpres	Other Comment			
3/29/22	0930	S	SS	B-10, 1-2.5'	X	X	X	X										3	
	0950			B-10, 8.5-10'	X	X	X	X										3	
	1030			B-10, 18.5-20'	X	X	X											3	
	1055			B-9, 1-2.5'	X	X	X	X										3	
	1115			B-9, 8.5-10'	X	X	X	X										3	
	1135			B-9, 13.5-15'	X	X	X											3	
	1225			B-8, 1-2.5'	X	X	X	X										3	
	1240			B-8, 8.5-10'	X	X	X	X										3	
	1330			B-7, 1-2.5'	X	X	X	X										3	
	1345			B-7, 8.5-10'	X	X	X											3	
	1440			B-3, 1-2.5'	X	X	X	X										3	
	1505			B-3, 8.5-10'	X	X	X	X										3	
	1550			B-2, 1-2.5'	X	X	X	X										3	
	1605			B-2, 5.5-7'	X	X	X											3	

DEPARTMENT USE / OPTIONAL FOR SOIL SAMPLES				DEPARTMENT USE ONLY			
Disposition of unused portion of sample Laboratory should (check)				Split Samples Offered <input type="checkbox"/> Y <input type="checkbox"/> N Accepted By: _____			
<input type="checkbox"/> Dispose	<input type="checkbox"/> Return	<input type="checkbox"/> Retain for _____ (days)	<input type="checkbox"/> Other	Accepted <input type="checkbox"/> Y <input type="checkbox"/> N Signature: _____			

500 214387

Sample Collector(s) Alex Huebner Aileen Zebrowski	Title Staff Engineer	Telephone # (incl area code) (262) 821 1171	Report To Robert Reineke and Daniel Pelczar
Property Owner MMSD VA Grounds MIS Relocation	Property Address 5000 W National Ave Milwaukee WI	Telephone # (incl area code)	KSingh Project # 40459

I hereby certify that I received, properly and disposed of the samples as noted below

Relinquished By (Signature) <i>Aileen Zebrowski</i>	Date/Time 2/30/22 1330	Received By (Signature) <i>John E</i>	Temperature Blank: 3.1 → 2.7 If samples were received on ice and there was ice remaining, you may report the temperature as "received on ice" If all of the ice was melted the temperature of the melt may be substituted for the temperature blank.
Relinquished By (Signature) <i>John E</i>	Date/Time 3.30.22 1700	Received By (Signature) <i>John Scott</i> 3/31/22 1000	

1		Specify groundwater (GW) soil (S) air (A) sludge (SL) surface water (SW) etc										Sample Condition								
2		Sample description must clearly correlate the sample ID to the sampling location										# / Type of Container				---				
Date Collected	Time Collected	Samples		Location/Description (2)	VOCs	PAHS	RCRA Metals	PCBs	PFAS	Landfill Protocol B					MeOH	HCL	H2SO4	Unpres	Other Comment	
		Type (1)	Device																	
3/29/22	1530	S	SS	B-3, 15.5-17'							X								1	Native
↓	-	-	-	Trip Blank	X										1					

<p>DEPARTMENT USE / OPTIONAL FOR SOIL SAMPLES</p> <p>Disposition of unused portion of sample</p> <p>Laboratory should (check)</p> <p><input type="checkbox"/> Dispose <input type="checkbox"/> Return <input type="checkbox"/> Retain for _____ (days) <input type="checkbox"/> Other</p>	<p>DEPARTMENT USE ONLY</p> <p>Split Samples Offered <input type="checkbox"/> Y <input type="checkbox"/> N Accepted By _____</p> <p>Accepted <input type="checkbox"/> Y <input type="checkbox"/> N _____</p> <p style="text-align: right;">Signature</p>
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500-214387 Wayb

ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 30MAR22
ACTWGT: 46.20 LB
CAD: 0269688/CAFE3511

BILL RECEIPT

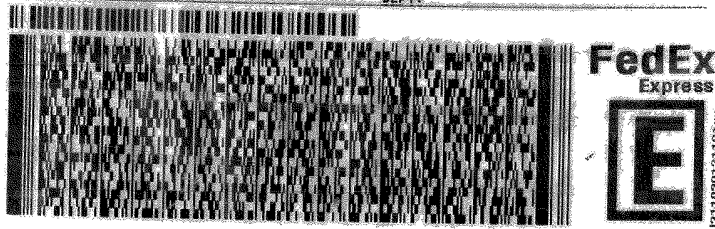
TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

UNIVERSITY PARK IL 60484

(262) 202-5966

REF:

DEPT:



1 of 2

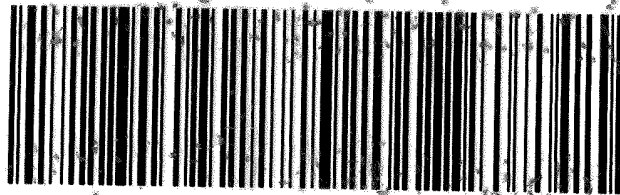
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MASTER

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THU - 31 MAR 10:30A
PRIORITY OVERNIGHT

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Eurofins Chicago

2417 Bond Street
 University Park, IL 60484
 Phone 708-534-5200 Fax: 708-534-5211

Chain of Custody Record



Environment Testing
 America

Client Information (Sub Contract Lab)		Sampler		Lab PM: Fredrick, Sandie		Carrier Tracking No(s):		COC No: 500-158800 1			
Client Contact: Shipping/Receiving		Phone:		E-Mail: sandra.fredrick@eurofinset.com		State of Origin: Wisconsin		Page: Page 1 of 1			
Company Eurofins Environment Testing Southeast,				Accreditations Required (See note): State - Wisconsin, State Program - Wisconsin				Job #: 500-214387-1			
Address: 5102 LaRoche Avenue,		Due Date Requested: 4/13/2022		Analysis Requested						Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify) Other	
City Savannah		TAT Requested (days):									
State, Zip: GA, 31404		PO #:									
Phone: 912-354-7858(Tel) 912-352-0165(Fax)		WO #:									
Email:		Project #: 50019997									
Project Name: MMSD VA Grounds MIS Relocation - 40459		SSOW#:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)		9251_Total_Cl/5050 Chlorine, Total			
Site:								Total Number of containers			
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	9251_Total_Cl/5050 Chlorine, Total	Total Number of containers	Special Instructions/Note:	
B-3, 15.5-17' (500-214387-15)		3/29/22	15:30 Central		Solid		X		1		
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.											
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
Unconfirmed					<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Deliverable Requested I, II, III, IV, Other (specify)					Special Instructions/QC Requirements						
Empty Kit Relinquished by:					Date		Time		Method of Shipment:		
Relinquished by: <i>[Signature]</i>		Date/Time: 3/31/22 1515		Company: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date/Time: 4/2 1000		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.			Cooler Temperature(s) °C and Other Remarks: 1, 2, 8						

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4/18/2022



Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-214387-1

Login Number: 214387

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-214387-1

Login Number: 214387

List Number: 2

Creator: Watters, David

List Source: Eurofins Savannah

List Creation: 04/02/22 12:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-214947-1

Client Project/Site: MMSD VA Grounds MIS Relocation - 40459

For:

K. Singh & Associates, Inc
3636 N. 124th Street
Wauwatosa, Wisconsin 53222

Attn: Mr. Robert Reineke



Authorized for release by:
4/29/2022 1:05:31 PM

Sandie Fredrick, Project Manager II
(920)261-1660
Sandra.Fredrick@et.eurofinsus.com

LINKS

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

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

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



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Case Narrative

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Job ID: 500-214947-1

Laboratory: Eurofins Chicago

Narrative

Job Narrative 500-214947-1

Comments

Dioxins/Furans reported separately.

Receipt

The samples were received on 4/12/2022 10:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.0° C and 4.2° C.

GC/MS VOA

Method 8260B: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: MW-1 (500-214947-1) and MW-2 (500-214947-2).

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

GC/MS Semi VOA

Method 8270D: The continuing calibration verification (CCV) analyzed in 500-652583 was outside the method criteria for the following analyte(s): Benzo[k]fluoranthene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270D: The continuing calibration verification (CCV) associated with batch 480-622149 recovered above the upper control limit for Pentachlorobenzene and Tetraethyl lead. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: Drums (500-214947-4).

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

GC Semi VOA

Method 8082A: The continuing calibration verification (CCV) associated with batch 500-651589 recovered above the upper control limit for PCB-1016, PCB-1260, Tetrachloro-m-xylene and DCB Decachlorobiphenyl. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-1 (500-214947-1), MW-2 (500-214947-2), MW-3 (500-214947-3), Drums (500-214947-4) and (CCVIS 500-651589/2).

Method 8082A: The laboratory control sample duplicate (LCSD) for preparation batch 500-651397 and analytical batch 500-651589 recovered outside control limits for the following analytes: PCB-1016, PCB-1260 and DCB Decachlorobiphenyl. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method 8082A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-651397 and analytical batch 500-651589 recovered outside control limits for the following analytes: PCB-1016 and PCB-1260.

Method 8081B: The continuing calibration verification (CCV) associated with batch 480-621870 recovered above the upper control limit for Heptachlor. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: Drums (500-214947-4).

Method 8081B: The laboratory control sample (LCS) for preparation batch 480-621775 and analytical batch 480-621870 recovered outside control limits for the following analytes: 4,4'-DDT and Heptachlor. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Metals

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

General Chemistry

Case Narrative

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Job ID: 500-214947-1 (Continued)

Laboratory: Eurofins Chicago (Continued)

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

Organic Prep

Method 3510C: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: Drums (500-214947-4). The reporting limits (RLs) have been adjusted proportionately.

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

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Detection Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: MW-1

Lab Sample ID: 500-214947-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.6		1.0	0.23	ug/L	1		6020A	Dissolved
Barium	820	B	2.5	0.73	ug/L	1		6020A	Dissolved
Cadmium	0.26	J	0.50	0.17	ug/L	1		6020A	Dissolved
Lead	0.23	J	0.50	0.19	ug/L	1		6020A	Dissolved
Selenium	2.0	J	2.5	0.98	ug/L	1		6020A	Dissolved

Client Sample ID: MW-2

Lab Sample ID: 500-214947-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.83		0.77	0.24	ug/L	1		8270D	Total/NA
Anthracene	0.48	J	0.77	0.26	ug/L	1		8270D	Total/NA
Benzo[a]anthracene	0.37		0.15	0.043	ug/L	1		8270D	Total/NA
Benzo[a]pyrene	0.30		0.15	0.076	ug/L	1		8270D	Total/NA
Benzo[b]fluoranthene	0.27		0.15	0.062	ug/L	1		8270D	Total/NA
Benzo[k]fluoranthene	0.20		0.15	0.049	ug/L	1		8270D	Total/NA
Chrysene	0.24		0.15	0.052	ug/L	1		8270D	Total/NA
Fluoranthene	1.5		0.77	0.35	ug/L	1		8270D	Total/NA
Fluorene	0.50	J	0.77	0.19	ug/L	1		8270D	Total/NA
Phenanthrene	1.5		0.77	0.23	ug/L	1		8270D	Total/NA
Pyrene	1.2		0.77	0.33	ug/L	1		8270D	Total/NA
Arsenic	8.7		1.0	0.23	ug/L	1		6020A	Dissolved
Barium	400	B	2.5	0.73	ug/L	1		6020A	Dissolved
Cadmium	0.22	J	0.50	0.17	ug/L	1		6020A	Dissolved
Chromium	23		5.0	1.1	ug/L	1		6020A	Dissolved
Lead	9.5		0.50	0.19	ug/L	1		6020A	Dissolved
Selenium	2.8		2.5	0.98	ug/L	1		6020A	Dissolved

Client Sample ID: MW-3

Lab Sample ID: 500-214947-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.5		1.0	0.23	ug/L	1		6020A	Dissolved
Barium	170	B	2.5	0.73	ug/L	1		6020A	Dissolved
Lead	0.24	J	0.50	0.19	ug/L	1		6020A	Dissolved
Selenium	2.7		2.5	0.98	ug/L	1		6020A	Dissolved

Client Sample ID: Drums

Lab Sample ID: 500-214947-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.012		0.010	0.0037	mg/L	1		6010C	Total/NA
Cadmium	0.00092	J B	0.0020	0.00043	mg/L	1		6010C	Total/NA
Chromium	0.027		0.010	0.0017	mg/L	1		6010C	Total/NA
Copper	0.038	B	0.010	0.0018	mg/L	1		6010C	Total/NA
Lead	0.0051		0.0050	0.0027	mg/L	1		6010C	Total/NA
Molybdenum	0.0068	J	0.010	0.0038	mg/L	1		6010C	Total/NA
Nickel	0.036		0.010	0.0019	mg/L	1		6010C	Total/NA
Zinc	0.13	B	0.020	0.0050	mg/L	1		6010C	Total/NA
Cyanide	0.022		0.0050	0.0036	mg/L	1		9012B	Total/NA
Total Suspended Solids	890		71	28	mg/L	1		SM 2540D	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-214947-5

No Detections.

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8081B	Organochlorine Pesticides (GC)	SW846	TAL BUF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
1664B	HEM and SGT-HEM	1664B	TAL CHI
9012B	Cyanide, Total and/or Amenable	SW846	TAL CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CHI
1664B	HEM and SGT-HEM (SPE)	1664B	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
9010C	Cyanide, Distillation	SW846	TAL CHI
FILTRATION	Sample Filtration	None	TAL CHI

Protocol References:

1664B = EPA-821-98-002

None = None

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

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

Laboratory References:

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

TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-214947-1	MW-1	Water	04/11/22 09:10	04/12/22 10:20
500-214947-2	MW-2	Water	04/11/22 10:20	04/12/22 10:20
500-214947-3	MW-3	Water	04/11/22 11:15	04/12/22 10:20
500-214947-4	Drums	Water	04/11/22 11:50	04/12/22 10:20
500-214947-5	Trip Blank	Water	04/11/22 00:00	04/12/22 10:20

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: MW-1
Date Collected: 04/11/22 09:10
Date Received: 04/12/22 10:20

Lab Sample ID: 500-214947-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			04/24/22 15:21	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/24/22 15:21	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/24/22 15:21	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/24/22 15:21	1
Bromoform	<0.48		1.0	0.48	ug/L			04/24/22 15:21	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/24/22 15:21	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/24/22 15:21	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/24/22 15:21	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/24/22 15:21	1
Chloroform	<0.37		2.0	0.37	ug/L			04/24/22 15:21	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/24/22 15:21	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/24/22 15:21	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/24/22 15:21	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/24/22 15:21	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/24/22 15:21	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/24/22 15:21	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/24/22 15:21	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/24/22 15:21	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/24/22 15:21	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/24/22 15:21	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/24/22 15:21	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/24/22 15:21	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/24/22 15:21	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/24/22 15:21	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/24/22 15:21	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/24/22 15:21	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/24/22 15:21	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/24/22 15:21	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/24/22 15:21	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/24/22 15:21	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/24/22 15:21	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/24/22 15:21	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/24/22 15:21	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/24/22 15:21	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/24/22 15:21	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/24/22 15:21	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/24/22 15:21	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/24/22 15:21	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/24/22 15:21	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/24/22 15:21	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/24/22 15:21	1
Styrene	<0.39		1.0	0.39	ug/L			04/24/22 15:21	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/24/22 15:21	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/24/22 15:21	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/24/22 15:21	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/24/22 15:21	1
Toluene	<0.15		0.50	0.15	ug/L			04/24/22 15:21	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/24/22 15:21	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/24/22 15:21	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: MW-1

Lab Sample ID: 500-214947-1

Date Collected: 04/11/22 09:10

Matrix: Water

Date Received: 04/12/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/24/22 15:21	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/24/22 15:21	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/24/22 15:21	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/24/22 15:21	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/24/22 15:21	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/24/22 15:21	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/24/22 15:21	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/24/22 15:21	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/24/22 15:21	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/24/22 15:21	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/24/22 15:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		72 - 124		04/24/22 15:21	1
Dibromofluoromethane (Surr)	108		75 - 120		04/24/22 15:21	1
1,2-Dichloroethane-d4 (Surr)	112		75 - 126		04/24/22 15:21	1
Toluene-d8 (Surr)	102		75 - 120		04/24/22 15:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.30		0.98	0.30	ug/L		04/18/22 07:30	04/20/22 22:29	1
Acenaphthylene	<0.26		0.98	0.26	ug/L		04/18/22 07:30	04/20/22 22:29	1
Anthracene	<0.33		0.98	0.33	ug/L		04/18/22 07:30	04/20/22 22:29	1
Benzo[a]anthracene	<0.055		0.20	0.055	ug/L		04/18/22 07:30	04/20/22 22:29	1
Benzo[a]pyrene	<0.097		0.20	0.097	ug/L		04/18/22 07:30	04/20/22 22:29	1
Benzo[b]fluoranthene	<0.079		0.20	0.079	ug/L		04/18/22 07:30	04/20/22 22:29	1
Benzo[g,h,i]perylene	<0.37		0.98	0.37	ug/L		04/18/22 07:30	04/20/22 22:29	1
Benzo[k]fluoranthene	<0.063		0.20	0.063	ug/L		04/18/22 07:30	04/20/22 22:29	1
Chrysene	<0.067		0.20	0.067	ug/L		04/18/22 07:30	04/20/22 22:29	1
Dibenz(a,h)anthracene	<0.050		0.29	0.050	ug/L		04/18/22 07:30	04/20/22 22:29	1
Fluoranthene	<0.44		0.98	0.44	ug/L		04/18/22 07:30	04/20/22 22:29	1
Fluorene	<0.24		0.98	0.24	ug/L		04/18/22 07:30	04/20/22 22:29	1
Indeno[1,2,3-cd]pyrene	<0.073		0.20	0.073	ug/L		04/18/22 07:30	04/20/22 22:29	1
1-Methylnaphthalene	<0.29		2.0	0.29	ug/L		04/18/22 07:30	04/20/22 22:29	1
2-Methylnaphthalene	<0.064		2.0	0.064	ug/L		04/18/22 07:30	04/20/22 22:29	1
Naphthalene	<0.30		0.98	0.30	ug/L		04/18/22 07:30	04/20/22 22:29	1
Phenanthrene	<0.29		0.98	0.29	ug/L		04/18/22 07:30	04/20/22 22:29	1
Pyrene	<0.42		0.98	0.42	ug/L		04/18/22 07:30	04/20/22 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	84		34 - 110	04/18/22 07:30	04/20/22 22:29	1
Nitrobenzene-d5 (Surr)	90		36 - 120	04/18/22 07:30	04/20/22 22:29	1
Terphenyl-d14 (Surr)	112		40 - 145	04/18/22 07:30	04/20/22 22:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.13	*+ *1	0.75	0.13	ug/L		04/12/22 16:19	04/13/22 19:06	1
PCB-1221	<0.37		0.75	0.37	ug/L		04/12/22 16:19	04/13/22 19:06	1
PCB-1232	<0.37		0.75	0.37	ug/L		04/12/22 16:19	04/13/22 19:06	1
PCB-1242	<0.37		0.75	0.37	ug/L		04/12/22 16:19	04/13/22 19:06	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: MW-1

Lab Sample ID: 500-214947-1

Date Collected: 04/11/22 09:10

Matrix: Water

Date Received: 04/12/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.37		0.75	0.37	ug/L		04/12/22 16:19	04/13/22 19:06	1
PCB-1254	<0.37		0.75	0.37	ug/L		04/12/22 16:19	04/13/22 19:06	1
PCB-1260	<0.13	** *1	0.75	0.13	ug/L		04/12/22 16:19	04/13/22 19:06	1
Polychlorinated biphenyls, Total	<0.37		0.75	0.37	ug/L		04/12/22 16:19	04/13/22 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	86		30 - 120				04/12/22 16:19	04/13/22 19:06	1
DCB Decachlorobiphenyl	56		30 - 140				04/12/22 16:19	04/13/22 19:06	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.6		1.0	0.23	ug/L		04/20/22 15:53	04/26/22 12:53	1
Barium	820	B	2.5	0.73	ug/L		04/20/22 15:53	04/25/22 19:03	1
Cadmium	0.26	J	0.50	0.17	ug/L		04/20/22 15:53	04/25/22 19:03	1
Chromium	<1.1		5.0	1.1	ug/L		04/20/22 15:53	04/26/22 12:53	1
Lead	0.23	J	0.50	0.19	ug/L		04/20/22 15:53	04/26/22 12:53	1
Selenium	2.0	J	2.5	0.98	ug/L		04/20/22 15:53	04/26/22 12:53	1
Silver	<0.12		0.50	0.12	ug/L		04/20/22 15:53	04/25/22 19:03	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		04/20/22 10:00	04/21/22 08:48	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: MW-2
Date Collected: 04/11/22 10:20
Date Received: 04/12/22 10:20

Lab Sample ID: 500-214947-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			04/24/22 15:44	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/24/22 15:44	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/24/22 15:44	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/24/22 15:44	1
Bromoform	<0.48		1.0	0.48	ug/L			04/24/22 15:44	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/24/22 15:44	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/24/22 15:44	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/24/22 15:44	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/24/22 15:44	1
Chloroform	<0.37		2.0	0.37	ug/L			04/24/22 15:44	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/24/22 15:44	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/24/22 15:44	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/24/22 15:44	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/24/22 15:44	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/24/22 15:44	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/24/22 15:44	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/24/22 15:44	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/24/22 15:44	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/24/22 15:44	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/24/22 15:44	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/24/22 15:44	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/24/22 15:44	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/24/22 15:44	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/24/22 15:44	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/24/22 15:44	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/24/22 15:44	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/24/22 15:44	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/24/22 15:44	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/24/22 15:44	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/24/22 15:44	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/24/22 15:44	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/24/22 15:44	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/24/22 15:44	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/24/22 15:44	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/24/22 15:44	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/24/22 15:44	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/24/22 15:44	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/24/22 15:44	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/24/22 15:44	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/24/22 15:44	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/24/22 15:44	1
Styrene	<0.39		1.0	0.39	ug/L			04/24/22 15:44	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/24/22 15:44	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/24/22 15:44	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/24/22 15:44	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/24/22 15:44	1
Toluene	<0.15		0.50	0.15	ug/L			04/24/22 15:44	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/24/22 15:44	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/24/22 15:44	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: MW-2

Lab Sample ID: 500-214947-2

Date Collected: 04/11/22 10:20

Matrix: Water

Date Received: 04/12/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/24/22 15:44	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/24/22 15:44	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/24/22 15:44	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/24/22 15:44	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/24/22 15:44	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/24/22 15:44	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/24/22 15:44	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/24/22 15:44	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/24/22 15:44	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/24/22 15:44	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/24/22 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		72 - 124					04/24/22 15:44	1
Dibromofluoromethane (Surr)	109		75 - 120					04/24/22 15:44	1
1,2-Dichloroethane-d4 (Surr)	119		75 - 126					04/24/22 15:44	1
Toluene-d8 (Surr)	104		75 - 120					04/24/22 15:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.83		0.77	0.24	ug/L		04/18/22 07:30	04/20/22 22:51	1
Acenaphthylene	<0.21		0.77	0.21	ug/L		04/18/22 07:30	04/20/22 22:51	1
Anthracene	0.48	J	0.77	0.26	ug/L		04/18/22 07:30	04/20/22 22:51	1
Benzo[a]anthracene	0.37		0.15	0.043	ug/L		04/18/22 07:30	04/20/22 22:51	1
Benzo[a]pyrene	0.30		0.15	0.076	ug/L		04/18/22 07:30	04/20/22 22:51	1
Benzo[b]fluoranthene	0.27		0.15	0.062	ug/L		04/18/22 07:30	04/20/22 22:51	1
Benzo[g,h,i]perylene	<0.29		0.77	0.29	ug/L		04/18/22 07:30	04/20/22 22:51	1
Benzo[k]fluoranthene	0.20		0.15	0.049	ug/L		04/18/22 07:30	04/20/22 22:51	1
Chrysene	0.24		0.15	0.052	ug/L		04/18/22 07:30	04/20/22 22:51	1
Dibenz(a,h)anthracene	<0.039		0.23	0.039	ug/L		04/18/22 07:30	04/20/22 22:51	1
Fluoranthene	1.5		0.77	0.35	ug/L		04/18/22 07:30	04/20/22 22:51	1
Fluorene	0.50	J	0.77	0.19	ug/L		04/18/22 07:30	04/20/22 22:51	1
Indeno[1,2,3-cd]pyrene	<0.057		0.15	0.057	ug/L		04/18/22 07:30	04/20/22 22:51	1
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		04/18/22 07:30	04/20/22 22:51	1
2-Methylnaphthalene	<0.050		1.5	0.050	ug/L		04/18/22 07:30	04/20/22 22:51	1
Naphthalene	<0.24		0.77	0.24	ug/L		04/18/22 07:30	04/20/22 22:51	1
Phenanthrene	1.5		0.77	0.23	ug/L		04/18/22 07:30	04/20/22 22:51	1
Pyrene	1.2		0.77	0.33	ug/L		04/18/22 07:30	04/20/22 22:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	85		34 - 110				04/18/22 07:30	04/20/22 22:51	1
Nitrobenzene-d5 (Surr)	67		36 - 120				04/18/22 07:30	04/20/22 22:51	1
Terphenyl-d14 (Surr)	90		40 - 145				04/18/22 07:30	04/20/22 22:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067	*+ *1	0.40	0.067	ug/L		04/12/22 16:19	04/13/22 19:23	1
PCB-1221	<0.20		0.40	0.20	ug/L		04/12/22 16:19	04/13/22 19:23	1
PCB-1232	<0.20		0.40	0.20	ug/L		04/12/22 16:19	04/13/22 19:23	1
PCB-1242	<0.20		0.40	0.20	ug/L		04/12/22 16:19	04/13/22 19:23	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: MW-2

Lab Sample ID: 500-214947-2

Date Collected: 04/11/22 10:20

Matrix: Water

Date Received: 04/12/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.20		0.40	0.20	ug/L		04/12/22 16:19	04/13/22 19:23	1
PCB-1254	<0.20		0.40	0.20	ug/L		04/12/22 16:19	04/13/22 19:23	1
PCB-1260	<0.070	*+ *1	0.40	0.070	ug/L		04/12/22 16:19	04/13/22 19:23	1
Polychlorinated biphenyls, Total	<0.20		0.40	0.20	ug/L		04/12/22 16:19	04/13/22 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	92		30 - 120	04/12/22 16:19	04/13/22 19:23	1
DCB Decachlorobiphenyl	122		30 - 140	04/12/22 16:19	04/13/22 19:23	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7		1.0	0.23	ug/L		04/20/22 15:53	04/26/22 12:56	1
Barium	400	B	2.5	0.73	ug/L		04/20/22 15:53	04/25/22 19:07	1
Cadmium	0.22	J	0.50	0.17	ug/L		04/20/22 15:53	04/25/22 19:07	1
Chromium	23		5.0	1.1	ug/L		04/20/22 15:53	04/26/22 12:56	1
Lead	9.5		0.50	0.19	ug/L		04/20/22 15:53	04/26/22 12:56	1
Selenium	2.8		2.5	0.98	ug/L		04/20/22 15:53	04/26/22 12:56	1
Silver	<0.12		0.50	0.12	ug/L		04/20/22 15:53	04/25/22 19:07	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.49		1.0	0.49	ug/L		04/20/22 10:00	04/21/22 08:51	1

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: MW-3

Lab Sample ID: 500-214947-3

Date Collected: 04/11/22 11:15

Matrix: Water

Date Received: 04/12/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			04/24/22 16:07	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/24/22 16:07	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/24/22 16:07	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/24/22 16:07	1
Bromoform	<0.48		1.0	0.48	ug/L			04/24/22 16:07	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/24/22 16:07	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/24/22 16:07	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/24/22 16:07	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/24/22 16:07	1
Chloroform	<0.37		2.0	0.37	ug/L			04/24/22 16:07	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/24/22 16:07	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/24/22 16:07	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/24/22 16:07	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/24/22 16:07	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/24/22 16:07	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/24/22 16:07	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/24/22 16:07	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/24/22 16:07	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/24/22 16:07	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/24/22 16:07	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/24/22 16:07	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/24/22 16:07	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/24/22 16:07	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/24/22 16:07	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/24/22 16:07	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/24/22 16:07	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/24/22 16:07	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/24/22 16:07	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/24/22 16:07	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/24/22 16:07	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/24/22 16:07	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/24/22 16:07	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/24/22 16:07	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/24/22 16:07	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/24/22 16:07	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/24/22 16:07	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/24/22 16:07	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/24/22 16:07	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/24/22 16:07	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/24/22 16:07	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/24/22 16:07	1
Styrene	<0.39		1.0	0.39	ug/L			04/24/22 16:07	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/24/22 16:07	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/24/22 16:07	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/24/22 16:07	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/24/22 16:07	1
Toluene	<0.15		0.50	0.15	ug/L			04/24/22 16:07	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/24/22 16:07	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/24/22 16:07	1

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Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: MW-3

Lab Sample ID: 500-214947-3

Date Collected: 04/11/22 11:15

Matrix: Water

Date Received: 04/12/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/24/22 16:07	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/24/22 16:07	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/24/22 16:07	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/24/22 16:07	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/24/22 16:07	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/24/22 16:07	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/24/22 16:07	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/24/22 16:07	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/24/22 16:07	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/24/22 16:07	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/24/22 16:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		72 - 124		04/24/22 16:07	1
Dibromofluoromethane (Surr)	108		75 - 120		04/24/22 16:07	1
1,2-Dichloroethane-d4 (Surr)	113		75 - 126		04/24/22 16:07	1
Toluene-d8 (Surr)	101		75 - 120		04/24/22 16:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.23		0.75	0.23	ug/L		04/18/22 07:30	04/20/22 23:14	1
Acenaphthylene	<0.20		0.75	0.20	ug/L		04/18/22 07:30	04/20/22 23:14	1
Anthracene	<0.25		0.75	0.25	ug/L		04/18/22 07:30	04/20/22 23:14	1
Benzo[a]anthracene	<0.042		0.15	0.042	ug/L		04/18/22 07:30	04/20/22 23:14	1
Benzo[a]pyrene	<0.074		0.15	0.074	ug/L		04/18/22 07:30	04/20/22 23:14	1
Benzo[b]fluoranthene	<0.060		0.15	0.060	ug/L		04/18/22 07:30	04/20/22 23:14	1
Benzo[g,h,i]perylene	<0.28		0.75	0.28	ug/L		04/18/22 07:30	04/20/22 23:14	1
Benzo[k]fluoranthene	<0.048		0.15	0.048	ug/L		04/18/22 07:30	04/20/22 23:14	1
Chrysene	<0.051		0.15	0.051	ug/L		04/18/22 07:30	04/20/22 23:14	1
Dibenz(a,h)anthracene	<0.038		0.22	0.038	ug/L		04/18/22 07:30	04/20/22 23:14	1
Fluoranthene	<0.34		0.75	0.34	ug/L		04/18/22 07:30	04/20/22 23:14	1
Fluorene	<0.18		0.75	0.18	ug/L		04/18/22 07:30	04/20/22 23:14	1
Indeno[1,2,3-cd]pyrene	<0.056		0.15	0.056	ug/L		04/18/22 07:30	04/20/22 23:14	1
1-Methylnaphthalene	<0.23		1.5	0.23	ug/L		04/18/22 07:30	04/20/22 23:14	1
2-Methylnaphthalene	<0.049		1.5	0.049	ug/L		04/18/22 07:30	04/20/22 23:14	1
Naphthalene	<0.23		0.75	0.23	ug/L		04/18/22 07:30	04/20/22 23:14	1
Phenanthrene	<0.23		0.75	0.23	ug/L		04/18/22 07:30	04/20/22 23:14	1
Pyrene	<0.32		0.75	0.32	ug/L		04/18/22 07:30	04/20/22 23:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	86		34 - 110	04/18/22 07:30	04/20/22 23:14	1
Nitrobenzene-d5 (Surr)	91		36 - 120	04/18/22 07:30	04/20/22 23:14	1
Terphenyl-d14 (Surr)	107		40 - 145	04/18/22 07:30	04/20/22 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.063	*+ *1	0.38	0.063	ug/L		04/12/22 16:19	04/13/22 19:39	1
PCB-1221	<0.19		0.38	0.19	ug/L		04/12/22 16:19	04/13/22 19:39	1
PCB-1232	<0.19		0.38	0.19	ug/L		04/12/22 16:19	04/13/22 19:39	1
PCB-1242	<0.19		0.38	0.19	ug/L		04/12/22 16:19	04/13/22 19:39	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: MW-3

Lab Sample ID: 500-214947-3

Date Collected: 04/11/22 11:15

Matrix: Water

Date Received: 04/12/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.19		0.38	0.19	ug/L		04/12/22 16:19	04/13/22 19:39	1
PCB-1254	<0.19		0.38	0.19	ug/L		04/12/22 16:19	04/13/22 19:39	1
PCB-1260	<0.066	*+ *1	0.38	0.066	ug/L		04/12/22 16:19	04/13/22 19:39	1
Polychlorinated biphenyls, Total	<0.19		0.38	0.19	ug/L		04/12/22 16:19	04/13/22 19:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		30 - 120				04/12/22 16:19	04/13/22 19:39	1
DCB Decachlorobiphenyl	66		30 - 140				04/12/22 16:19	04/13/22 19:39	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.5		1.0	0.23	ug/L		04/20/22 15:53	04/26/22 13:00	1
Barium	170	B	2.5	0.73	ug/L		04/20/22 15:53	04/25/22 19:10	1
Cadmium	<0.17		0.50	0.17	ug/L		04/20/22 15:53	04/25/22 19:10	1
Chromium	<1.1		5.0	1.1	ug/L		04/20/22 15:53	04/26/22 13:00	1
Lead	0.24	J	0.50	0.19	ug/L		04/20/22 15:53	04/26/22 13:00	1
Selenium	2.7		2.5	0.98	ug/L		04/20/22 15:53	04/26/22 13:00	1
Silver	<0.12		0.50	0.12	ug/L		04/20/22 15:53	04/25/22 19:10	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		04/20/22 10:00	04/21/22 08:53	1

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: Drums

Lab Sample ID: 500-214947-4

Date Collected: 04/11/22 11:50

Matrix: Water

Date Received: 04/12/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<23		100	23	ug/L			04/24/22 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 126					04/24/22 22:08	1
Toluene-d8 (Surr)	94		75 - 120					04/24/22 22:08	1
4-Bromofluorobenzene (Surr)	102		72 - 124					04/24/22 22:08	1
Dibromofluoromethane (Surr)	99		75 - 120					04/24/22 22:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.47		5.0	0.47	ug/L		04/15/22 09:13	04/19/22 02:27	1
3,3'-Dichlorobenzidine	<0.40		5.0	0.40	ug/L		04/15/22 09:13	04/19/22 02:27	1
Fluoranthene	<0.40		5.0	0.40	ug/L		04/15/22 09:13	04/19/22 02:27	1
Hexachlorobenzene	<0.51		5.0	0.51	ug/L		04/15/22 09:13	04/19/22 02:27	1
Pentachlorobenzene	<0.53		10	0.53	ug/L		04/15/22 09:13	04/19/22 02:27	1
1,2,4,5-Tetrachlorobenzene	<0.58		5.0	0.58	ug/L		04/15/22 09:13	04/19/22 02:27	1
Tetraethyl lead	<2.0		10	2.0	ug/L		04/15/22 09:13	04/19/22 02:27	1
2,4,6-Trichlorophenol	<0.61		5.0	0.61	ug/L		04/15/22 09:13	04/19/22 02:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	95		48 - 120				04/15/22 09:13	04/19/22 02:27	1
Nitrobenzene-d5 (Surr)	78		46 - 120				04/15/22 09:13	04/19/22 02:27	1
p-Terphenyl-d14 (Surr)	75		60 - 148				04/15/22 09:13	04/19/22 02:27	1

Method: 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-Chlordane	<0.074		0.25	0.074	ug/L		04/14/22 14:51	04/15/22 20:29	1
4,4'-DDT	<0.055	*+	0.25	0.055	ug/L		04/14/22 14:51	04/15/22 20:29	1
Dieldrin	<0.049		0.25	0.049	ug/L		04/14/22 14:51	04/15/22 20:29	1
Endosulfan I	<0.055		0.25	0.055	ug/L		04/14/22 14:51	04/15/22 20:29	1
Endosulfan II	<0.060		0.25	0.060	ug/L		04/14/22 14:51	04/15/22 20:29	1
Endrin	<0.069		0.25	0.069	ug/L		04/14/22 14:51	04/15/22 20:29	1
gamma-BHC (Lindane)	<0.040		0.25	0.040	ug/L		04/14/22 14:51	04/15/22 20:29	1
Heptachlor	<0.043	*+	0.25	0.043	ug/L		04/14/22 14:51	04/15/22 20:29	1
Mirex	<0.048		0.25	0.048	ug/L		04/14/22 14:51	04/15/22 20:29	1
Toxaphene	<0.60		2.5	0.60	ug/L		04/14/22 14:51	04/15/22 20:29	1
trans-Chlordane	<0.055		0.25	0.055	ug/L		04/14/22 14:51	04/15/22 20:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	30		20 - 120				04/14/22 14:51	04/15/22 20:29	1
Tetrachloro-m-xylene	64		44 - 120				04/14/22 14:51	04/15/22 20:29	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.063	*+ *1	0.37	0.063	ug/L		04/12/22 16:19	04/13/22 19:55	1
PCB-1221	<0.19		0.37	0.19	ug/L		04/12/22 16:19	04/13/22 19:55	1
PCB-1232	<0.19		0.37	0.19	ug/L		04/12/22 16:19	04/13/22 19:55	1
PCB-1242	<0.19		0.37	0.19	ug/L		04/12/22 16:19	04/13/22 19:55	1
PCB-1248	<0.19		0.37	0.19	ug/L		04/12/22 16:19	04/13/22 19:55	1
PCB-1254	<0.19		0.37	0.19	ug/L		04/12/22 16:19	04/13/22 19:55	1
PCB-1260	<0.066	*+ *1	0.37	0.066	ug/L		04/12/22 16:19	04/13/22 19:55	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: Drums

Lab Sample ID: 500-214947-4

Date Collected: 04/11/22 11:50

Matrix: Water

Date Received: 04/12/22 10:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	73		30 - 120	04/12/22 16:19	04/13/22 19:55	1
DCB Decachlorobiphenyl	80		30 - 140	04/12/22 16:19	04/13/22 19:55	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.012		0.010	0.0037	mg/L		04/12/22 17:18	04/13/22 15:23	1
Cadmium	0.00092	J B	0.0020	0.00043	mg/L		04/12/22 17:18	04/13/22 15:23	1
Chromium	0.027		0.010	0.0017	mg/L		04/12/22 17:18	04/13/22 15:23	1
Copper	0.038	B	0.010	0.0018	mg/L		04/12/22 17:18	04/13/22 15:23	1
Lead	0.0051		0.0050	0.0027	mg/L		04/12/22 17:18	04/13/22 15:23	1
Molybdenum	0.0068	J	0.010	0.0038	mg/L		04/12/22 17:18	04/13/22 15:23	1
Nickel	0.036		0.010	0.0019	mg/L		04/12/22 17:18	04/13/22 15:23	1
Silver	<0.0015		0.0050	0.0015	mg/L		04/12/22 17:18	04/13/22 15:23	1
Zinc	0.13	B	0.020	0.0050	mg/L		04/12/22 17:18	04/13/22 15:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000098		0.00020	0.000098	mg/L		04/18/22 10:45	04/19/22 10:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.3		5.1	1.3	mg/L		04/25/22 06:44	04/25/22 07:45	1
Cyanide	0.022		0.0050	0.0036	mg/L		04/21/22 14:47	04/21/22 17:48	1
Total Suspended Solids	890		71	28	mg/L			04/15/22 15:17	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-214947-5

Date Collected: 04/11/22 00:00

Matrix: Water

Date Received: 04/12/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			04/24/22 14:58	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/24/22 14:58	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/24/22 14:58	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/24/22 14:58	1
Bromoform	<0.48		1.0	0.48	ug/L			04/24/22 14:58	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/24/22 14:58	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/24/22 14:58	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/24/22 14:58	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/24/22 14:58	1
Chloroform	<0.37		2.0	0.37	ug/L			04/24/22 14:58	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/24/22 14:58	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/24/22 14:58	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/24/22 14:58	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/24/22 14:58	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/24/22 14:58	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/24/22 14:58	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/24/22 14:58	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/24/22 14:58	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/24/22 14:58	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/24/22 14:58	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/24/22 14:58	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/24/22 14:58	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/24/22 14:58	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/24/22 14:58	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/24/22 14:58	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/24/22 14:58	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/24/22 14:58	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/24/22 14:58	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/24/22 14:58	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/24/22 14:58	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/24/22 14:58	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/24/22 14:58	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/24/22 14:58	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/24/22 14:58	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/24/22 14:58	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/24/22 14:58	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/24/22 14:58	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/24/22 14:58	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/24/22 14:58	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/24/22 14:58	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/24/22 14:58	1
Styrene	<0.39		1.0	0.39	ug/L			04/24/22 14:58	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/24/22 14:58	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/24/22 14:58	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/24/22 14:58	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/24/22 14:58	1
Toluene	<0.15		0.50	0.15	ug/L			04/24/22 14:58	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/24/22 14:58	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/24/22 14:58	1

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-214947-5

Date Collected: 04/11/22 00:00

Matrix: Water

Date Received: 04/12/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/24/22 14:58	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/24/22 14:58	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/24/22 14:58	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/24/22 14:58	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/24/22 14:58	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/24/22 14:58	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/24/22 14:58	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/24/22 14:58	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/24/22 14:58	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/24/22 14:58	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/24/22 14:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		72 - 124		04/24/22 14:58	1
Dibromofluoromethane (Surr)	106		75 - 120		04/24/22 14:58	1
1,2-Dichloroethane-d4 (Surr)	113		75 - 126		04/24/22 14:58	1
Toluene-d8 (Surr)	102		75 - 120		04/24/22 14:58	1

Definitions/Glossary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Qualifiers

GC/MS Semi VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

GC/MS VOA

Analysis Batch: 653113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	8260B	
MB 500-653113/6	Method Blank	Total/NA	Water	8260B	
LCS 500-653113/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 653128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-1	MW-1	Total/NA	Water	8260B	
500-214947-2	MW-2	Total/NA	Water	8260B	
500-214947-3	MW-3	Total/NA	Water	8260B	
500-214947-5	Trip Blank	Total/NA	Water	8260B	
MB 500-653128/6	Method Blank	Total/NA	Water	8260B	
LCS 500-653128/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 621887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	3510C	
MB 480-621887/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-621887/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 622149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	8270D	621887
MB 480-621887/1-A	Method Blank	Total/NA	Water	8270D	621887
LCS 480-621887/2-A	Lab Control Sample	Total/NA	Water	8270D	621887

Prep Batch: 652082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-1	MW-1	Total/NA	Water	3510C	
500-214947-2	MW-2	Total/NA	Water	3510C	
500-214947-3	MW-3	Total/NA	Water	3510C	
MB 500-652082/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-652082/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-652082/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 652583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-1	MW-1	Total/NA	Water	8270D	652082
500-214947-2	MW-2	Total/NA	Water	8270D	652082
500-214947-3	MW-3	Total/NA	Water	8270D	652082

Analysis Batch: 652762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-652082/1-A	Method Blank	Total/NA	Water	8270D	652082
LCS 500-652082/2-A	Lab Control Sample	Total/NA	Water	8270D	652082
LCSD 500-652082/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	652082

QC Association Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

GC Semi VOA

Prep Batch: 621775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	3510C	
MB 480-621775/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-621775/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 621870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	8081B	621775
MB 480-621775/1-A	Method Blank	Total/NA	Water	8081B	621775
LCS 480-621775/2-A	Lab Control Sample	Total/NA	Water	8081B	621775

Prep Batch: 651397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-1	MW-1	Total/NA	Water	3510C	
500-214947-2	MW-2	Total/NA	Water	3510C	
500-214947-3	MW-3	Total/NA	Water	3510C	
500-214947-4	Drums	Total/NA	Water	3510C	
MB 500-651397/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-651397/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-651397/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 651589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-1	MW-1	Total/NA	Water	8082A	651397
500-214947-2	MW-2	Total/NA	Water	8082A	651397
500-214947-3	MW-3	Total/NA	Water	8082A	651397
500-214947-4	Drums	Total/NA	Water	8082A	651397
MB 500-651397/1-A	Method Blank	Total/NA	Water	8082A	651397
LCS 500-651397/4-A	Lab Control Sample	Total/NA	Water	8082A	651397
LCSD 500-651397/5-A	Lab Control Sample Dup	Total/NA	Water	8082A	651397

Metals

Prep Batch: 651400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	3010A	
MB 500-651400/1-A	Method Blank	Total/NA	Water	3010A	
LCS 500-651400/2-A	Lab Control Sample	Total/NA	Water	3010A	

Analysis Batch: 651679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	6010C	651400
MB 500-651400/1-A	Method Blank	Total/NA	Water	6010C	651400
LCS 500-651400/2-A	Lab Control Sample	Total/NA	Water	6010C	651400

Prep Batch: 652185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	7470A	
MB 500-652185/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-652185/13-A	Lab Control Sample	Total/NA	Water	7470A	

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Metals

Analysis Batch: 652385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	7470A	652185
MB 500-652185/12-A	Method Blank	Total/NA	Water	7470A	652185
LCS 500-652185/13-A	Lab Control Sample	Total/NA	Water	7470A	652185

Filtration Batch: 652485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-1	MW-1	Dissolved	Water	FILTRATION	
500-214947-2	MW-2	Dissolved	Water	FILTRATION	
500-214947-3	MW-3	Dissolved	Water	FILTRATION	
MB 500-652485/1-B	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 652561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-1	MW-1	Dissolved	Water	7470A	652485
500-214947-2	MW-2	Dissolved	Water	7470A	652485
500-214947-3	MW-3	Dissolved	Water	7470A	652485
MB 500-652485/1-B	Method Blank	Dissolved	Water	7470A	652485
MB 500-652561/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-652561/13-A	Lab Control Sample	Total/NA	Water	7470A	

Prep Batch: 652626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-1	MW-1	Dissolved	Water	3005A	652485
500-214947-2	MW-2	Dissolved	Water	3005A	652485
500-214947-3	MW-3	Dissolved	Water	3005A	652485
MB 500-652626/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-652626/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 652778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-1	MW-1	Dissolved	Water	7470A	652561
500-214947-2	MW-2	Dissolved	Water	7470A	652561
500-214947-3	MW-3	Dissolved	Water	7470A	652561
MB 500-652485/1-B	Method Blank	Dissolved	Water	7470A	652561
MB 500-652561/12-A	Method Blank	Total/NA	Water	7470A	652561
LCS 500-652561/13-A	Lab Control Sample	Total/NA	Water	7470A	652561

Analysis Batch: 653399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-1	MW-1	Dissolved	Water	6020A	652626
500-214947-2	MW-2	Dissolved	Water	6020A	652626
500-214947-3	MW-3	Dissolved	Water	6020A	652626
MB 500-652626/1-A	Method Blank	Total Recoverable	Water	6020A	652626
LCS 500-652626/2-A	Lab Control Sample	Total Recoverable	Water	6020A	652626

Analysis Batch: 653504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-1	MW-1	Dissolved	Water	6020A	652626
500-214947-2	MW-2	Dissolved	Water	6020A	652626
500-214947-3	MW-3	Dissolved	Water	6020A	652626
MB 500-652626/1-A	Method Blank	Total Recoverable	Water	6020A	652626

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QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Metals (Continued)

Analysis Batch: 653504 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-652626/2-A	Lab Control Sample	Total Recoverable	Water	6020A	652626

General Chemistry

Analysis Batch: 651974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	SM 2540D	
MB 500-651974/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-651974/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Prep Batch: 652839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	9010C	
MB 500-652839/1-A	Method Blank	Total/NA	Water	9010C	
HLCS 500-652839/2-A	Lab Control Sample	Total/NA	Water	9010C	
LCS 500-652839/3-A	Lab Control Sample	Total/NA	Water	9010C	
LLCS 500-652839/4-A	Lab Control Sample	Total/NA	Water	9010C	

Analysis Batch: 652946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	9012B	652839
MB 500-652839/1-A	Method Blank	Total/NA	Water	9012B	652839
HLCS 500-652839/2-A	Lab Control Sample	Total/NA	Water	9012B	652839
LCS 500-652839/3-A	Lab Control Sample	Total/NA	Water	9012B	652839
LLCS 500-652839/4-A	Lab Control Sample	Total/NA	Water	9012B	652839

Prep Batch: 653158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	1664B	
MB 500-653158/1-A	Method Blank	Total/NA	Water	1664B	
LCS 500-653158/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 653173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-214947-4	Drums	Total/NA	Water	1664B	653158
MB 500-653158/1-A	Method Blank	Total/NA	Water	1664B	653158
LCS 500-653158/2-A	Lab Control Sample	Total/NA	Water	1664B	653158

Surrogate Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-124)	DBFM (75-120)	DCA (75-126)	TOL (75-120)
500-214947-1	MW-1	90	108	112	102
500-214947-2	MW-2	95	109	119	104
500-214947-3	MW-3	90	108	113	101
500-214947-4	Drums	102	99	103	94
500-214947-5	Trip Blank	88	106	113	102
LCS 500-653113/4	Lab Control Sample	97	98	99	95
LCS 500-653128/4	Lab Control Sample	92	106	109	103
MB 500-653113/6	Method Blank	97	96	100	94
MB 500-653128/6	Method Blank	92	109	119	102

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (34-110)	NBZ (36-120)	TPHL (40-145)
500-214947-1	MW-1	84	90	112
500-214947-2	MW-2	85	67	90
500-214947-3	MW-3	86	91	107
LCS 500-652082/2-A	Lab Control Sample	85	75	97
LCS 500-652082/3-A	Lab Control Sample Dup	97	85	109
MB 500-652082/1-A	Method Blank	84	70	105

Surrogate Legend
 FBP = 2-Fluorobiphenyl (Surr)
 NBZ = Nitrobenzene-d5 (Surr)
 TPHL = Terphenyl-d14 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (48-120)	NBZ (46-120)	TPHd14 (60-148)
500-214947-4	Drums	95	78	75
LCS 480-621887/2-A	Lab Control Sample	93	77	95
MB 480-621887/1-A	Method Blank	92	77	97

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

Surrogate Summary

Client: K. Singh & Associates, Inc
Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCBP1 (20-120)	TCX1 (44-120)
500-214947-4	Drums	30	64
LCS 480-621775/2-A	Lab Control Sample	50	99
MB 480-621775/1-A	Method Blank	55	84

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (30-120)	DCBP2 (30-140)
500-214947-1	MW-1	86	56
500-214947-2	MW-2	92	122
500-214947-3	MW-3	71	66
500-214947-4	Drums	73	80
LCS 500-651397/4-A	Lab Control Sample	71	135
LCSD 500-651397/5-A	Lab Control Sample Dup	120	209 S1+
MB 500-651397/1-A	Method Blank	46	90

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

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

Lab Sample ID: MB 500-653113/6
Matrix: Water
Analysis Batch: 653113

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrolein	<23		100	23	ug/L			04/24/22 12:26	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		72 - 124					04/24/22 12:26	1
Dibromofluoromethane (Surr)	96		75 - 120					04/24/22 12:26	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 126					04/24/22 12:26	1
Toluene-d8 (Surr)	94		75 - 120					04/24/22 12:26	1

Lab Sample ID: LCS 500-653113/4
Matrix: Water
Analysis Batch: 653113

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acrolein	2000	2250		ug/L		113	40 - 150
Surrogate	%Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	97		72 - 124				
Dibromofluoromethane (Surr)	98		75 - 120				
1,2-Dichloroethane-d4 (Surr)	99		75 - 126				
Toluene-d8 (Surr)	95		75 - 120				

Lab Sample ID: MB 500-653128/6
Matrix: Water
Analysis Batch: 653128

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			04/24/22 14:35	1
Bromobenzene	<0.36		1.0	0.36	ug/L			04/24/22 14:35	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			04/24/22 14:35	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			04/24/22 14:35	1
Bromoform	<0.48		1.0	0.48	ug/L			04/24/22 14:35	1
Bromomethane	<0.80		3.0	0.80	ug/L			04/24/22 14:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			04/24/22 14:35	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			04/24/22 14:35	1
Chloroethane	<0.51		1.0	0.51	ug/L			04/24/22 14:35	1
Chloroform	<0.37		2.0	0.37	ug/L			04/24/22 14:35	1
Chloromethane	<0.32		1.0	0.32	ug/L			04/24/22 14:35	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			04/24/22 14:35	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			04/24/22 14:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			04/24/22 14:35	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			04/24/22 14:35	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			04/24/22 14:35	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			04/24/22 14:35	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			04/24/22 14:35	1
Dibromomethane	<0.27		1.0	0.27	ug/L			04/24/22 14:35	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			04/24/22 14:35	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			04/24/22 14:35	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			04/24/22 14:35	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

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

Lab Sample ID: MB 500-653128/6
Matrix: Water
Analysis Batch: 653128

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			04/24/22 14:35	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			04/24/22 14:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			04/24/22 14:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			04/24/22 14:35	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			04/24/22 14:35	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			04/24/22 14:35	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			04/24/22 14:35	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			04/24/22 14:35	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			04/24/22 14:35	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			04/24/22 14:35	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			04/24/22 14:35	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			04/24/22 14:35	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			04/24/22 14:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			04/24/22 14:35	1
Naphthalene	<0.34		1.0	0.34	ug/L			04/24/22 14:35	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			04/24/22 14:35	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			04/24/22 14:35	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			04/24/22 14:35	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			04/24/22 14:35	1
Styrene	<0.39		1.0	0.39	ug/L			04/24/22 14:35	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			04/24/22 14:35	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			04/24/22 14:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			04/24/22 14:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			04/24/22 14:35	1
Toluene	<0.15		0.50	0.15	ug/L			04/24/22 14:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			04/24/22 14:35	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			04/24/22 14:35	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			04/24/22 14:35	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			04/24/22 14:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			04/24/22 14:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			04/24/22 14:35	1
Trichloroethene	<0.16		0.50	0.16	ug/L			04/24/22 14:35	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			04/24/22 14:35	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			04/24/22 14:35	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			04/24/22 14:35	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			04/24/22 14:35	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/24/22 14:35	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			04/24/22 14:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		72 - 124		04/24/22 14:35	1
Dibromofluoromethane (Surr)	109		75 - 120		04/24/22 14:35	1
1,2-Dichloroethane-d4 (Surr)	119		75 - 126		04/24/22 14:35	1
Toluene-d8 (Surr)	102		75 - 120		04/24/22 14:35	1

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

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

Lab Sample ID: LCS 500-653128/4
Matrix: Water
Analysis Batch: 653128

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	50.0	52.0		ug/L		104	70 - 120
Bromobenzene	50.0	49.5		ug/L		99	70 - 122
Bromochloromethane	50.0	51.4		ug/L		103	65 - 122
Bromodichloromethane	50.0	53.1		ug/L		106	69 - 120
Bromoform	50.0	53.6		ug/L		107	56 - 132
Bromomethane	50.0	52.0		ug/L		104	40 - 152
Carbon tetrachloride	50.0	65.7		ug/L		131	59 - 133
Chlorobenzene	50.0	52.7		ug/L		105	70 - 120
Chloroethane	50.0	58.4		ug/L		117	48 - 136
Chloroform	50.0	51.7		ug/L		103	70 - 120
Chloromethane	50.0	42.2		ug/L		84	56 - 152
2-Chlorotoluene	50.0	52.9		ug/L		106	70 - 125
4-Chlorotoluene	50.0	53.0		ug/L		106	68 - 124
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	70 - 125
cis-1,3-Dichloropropene	50.0	49.4		ug/L		99	64 - 127
Dibromochloromethane	50.0	51.6		ug/L		103	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	49.5		ug/L		99	56 - 123
1,2-Dibromoethane	50.0	44.7		ug/L		89	70 - 125
Dibromomethane	50.0	51.0		ug/L		102	70 - 120
1,2-Dichlorobenzene	50.0	48.4		ug/L		97	70 - 125
1,3-Dichlorobenzene	50.0	49.1		ug/L		98	70 - 125
1,4-Dichlorobenzene	50.0	48.1		ug/L		96	70 - 120
Dichlorodifluoromethane	50.0	54.7		ug/L		109	40 - 159
1,1-Dichloroethane	50.0	51.8		ug/L		104	70 - 125
1,2-Dichloroethane	50.0	58.1		ug/L		116	68 - 127
1,1-Dichloroethene	50.0	58.8		ug/L		118	67 - 122
1,2-Dichloropropane	50.0	48.1		ug/L		96	67 - 130
1,3-Dichloropropane	50.0	48.3		ug/L		97	62 - 136
2,2-Dichloropropane	50.0	56.7		ug/L		113	58 - 139
1,1-Dichloropropene	50.0	56.0		ug/L		112	70 - 121
Ethylbenzene	50.0	47.8		ug/L		96	70 - 123
Hexachlorobutadiene	50.0	61.7		ug/L		123	51 - 150
Isopropylbenzene	50.0	53.1		ug/L		106	70 - 126
Methylene Chloride	50.0	48.9		ug/L		98	69 - 125
Methyl tert-butyl ether	50.0	48.7		ug/L		97	55 - 123
Naphthalene	50.0	42.1		ug/L		84	53 - 144
n-Butylbenzene	50.0	56.2		ug/L		112	68 - 125
N-Propylbenzene	50.0	54.4		ug/L		109	69 - 127
p-Isopropyltoluene	50.0	51.9		ug/L		104	70 - 125
sec-Butylbenzene	50.0	54.5		ug/L		109	70 - 123
Styrene	50.0	50.7		ug/L		101	70 - 120
tert-Butylbenzene	50.0	52.2		ug/L		104	70 - 121
1,1,1,2-Tetrachloroethane	50.0	52.9		ug/L		106	70 - 125
1,1,2,2-Tetrachloroethane	50.0	43.0		ug/L		86	62 - 140
Tetrachloroethene	50.0	59.2		ug/L		118	70 - 128
Toluene	50.0	52.0		ug/L		104	70 - 125
trans-1,2-Dichloroethene	50.0	54.4		ug/L		109	70 - 125
trans-1,3-Dichloropropene	50.0	49.6		ug/L		99	62 - 128

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

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

Lab Sample ID: LCS 500-653128/4
Matrix: Water
Analysis Batch: 653128

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichlorobenzene	50.0	51.0		ug/L		102	51 - 145
1,2,4-Trichlorobenzene	50.0	53.7		ug/L		107	57 - 137
1,1,1-Trichloroethane	50.0	60.8		ug/L		122	70 - 125
1,1,2-Trichloroethane	50.0	48.5		ug/L		97	71 - 130
Trichloroethene	50.0	52.4		ug/L		105	70 - 125
Trichlorofluoromethane	50.0	59.7		ug/L		119	55 - 128
1,2,3-Trichloropropane	50.0	44.6		ug/L		89	50 - 133
1,2,4-Trimethylbenzene	50.0	51.7		ug/L		103	70 - 123
1,3,5-Trimethylbenzene	50.0	51.7		ug/L		103	70 - 123
Vinyl chloride	50.0	45.2		ug/L		90	64 - 126
Xylenes, Total	100	107		ug/L		107	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		72 - 124
Dibromofluoromethane (Surr)	106		75 - 120
1,2-Dichloroethane-d4 (Surr)	109		75 - 126
Toluene-d8 (Surr)	103		75 - 120

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

Lab Sample ID: MB 480-621887/1-A
Matrix: Water
Analysis Batch: 622149

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 621887

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<0.47		5.0	0.47	ug/L		04/15/22 09:13	04/18/22 21:53	1
3,3'-Dichlorobenzidine	<0.40		5.0	0.40	ug/L		04/15/22 09:13	04/18/22 21:53	1
Fluoranthene	<0.40		5.0	0.40	ug/L		04/15/22 09:13	04/18/22 21:53	1
Hexachlorobenzene	<0.51		5.0	0.51	ug/L		04/15/22 09:13	04/18/22 21:53	1
Pentachlorobenzene	<0.53		10	0.53	ug/L		04/15/22 09:13	04/18/22 21:53	1
1,2,4,5-Tetrachlorobenzene	<0.58		5.0	0.58	ug/L		04/15/22 09:13	04/18/22 21:53	1
Tetraethyl lead	<2.0		10	2.0	ug/L		04/15/22 09:13	04/18/22 21:53	1
2,4,6-Trichlorophenol	<0.61		5.0	0.61	ug/L		04/15/22 09:13	04/18/22 21:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	92		48 - 120	04/15/22 09:13	04/18/22 21:53	1
Nitrobenzene-d5 (Surr)	77		46 - 120	04/15/22 09:13	04/18/22 21:53	1
p-Terphenyl-d14 (Surr)	97		60 - 148	04/15/22 09:13	04/18/22 21:53	1

Lab Sample ID: LCS 480-621887/2-A
Matrix: Water
Analysis Batch: 622149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 621887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[a]pyrene	32.0	28.2		ug/L		88	60 - 123
3,3'-Dichlorobenzidine	64.0	65.2		ug/L		102	49 - 135
Fluoranthene	32.0	33.0		ug/L		103	69 - 126
Hexachlorobenzene	32.0	30.1		ug/L		94	61 - 120

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

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

Lab Sample ID: LCS 480-621887/2-A
Matrix: Water
Analysis Batch: 622149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 621887

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	32.0	28.9		ug/L		90	53 - 120
2,4,6-Trichlorophenol	32.0	31.5		ug/L		98	64 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	93		48 - 120
Nitrobenzene-d5 (Surr)	77		46 - 120
p-Terphenyl-d14 (Surr)	95		60 - 148

Lab Sample ID: MB 500-652082/1-A
Matrix: Water
Analysis Batch: 652762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 652082

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.25		0.80	0.25	ug/L		04/18/22 07:30	04/21/22 12:51	1
Acenaphthylene	<0.21		0.80	0.21	ug/L		04/18/22 07:30	04/21/22 12:51	1
Anthracene	<0.27		0.80	0.27	ug/L		04/18/22 07:30	04/21/22 12:51	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		04/18/22 07:30	04/21/22 12:51	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		04/18/22 07:30	04/21/22 12:51	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		04/18/22 07:30	04/21/22 12:51	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		04/18/22 07:30	04/21/22 12:51	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		04/18/22 07:30	04/21/22 12:51	1
Chrysene	<0.055		0.16	0.055	ug/L		04/18/22 07:30	04/21/22 12:51	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		04/18/22 07:30	04/21/22 12:51	1
Fluoranthene	<0.36		0.80	0.36	ug/L		04/18/22 07:30	04/21/22 12:51	1
Fluorene	<0.20		0.80	0.20	ug/L		04/18/22 07:30	04/21/22 12:51	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		04/18/22 07:30	04/21/22 12:51	1
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		04/18/22 07:30	04/21/22 12:51	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		04/18/22 07:30	04/21/22 12:51	1
Naphthalene	<0.25		0.80	0.25	ug/L		04/18/22 07:30	04/21/22 12:51	1
Phenanthrene	<0.24		0.80	0.24	ug/L		04/18/22 07:30	04/21/22 12:51	1
Pyrene	<0.34		0.80	0.34	ug/L		04/18/22 07:30	04/21/22 12:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	84		34 - 110	04/18/22 07:30	04/21/22 12:51	1
Nitrobenzene-d5 (Surr)	70		36 - 120	04/18/22 07:30	04/21/22 12:51	1
Terphenyl-d14 (Surr)	105		40 - 145	04/18/22 07:30	04/21/22 12:51	1

Lab Sample ID: LCS 500-652082/2-A
Matrix: Water
Analysis Batch: 652762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 652082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	32.0	25.8		ug/L		81	46 - 110
Acenaphthylene	32.0	27.0		ug/L		85	47 - 113
Anthracene	32.0	29.4		ug/L		92	67 - 118
Benzo[a]anthracene	32.0	28.6		ug/L		89	70 - 126
Benzo[a]pyrene	32.0	30.9		ug/L		97	70 - 135
Benzo[b]fluoranthene	32.0	29.0		ug/L		90	69 - 136

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

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

Lab Sample ID: LCS 500-652082/2-A
Matrix: Water
Analysis Batch: 652762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 652082

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzo[g,h,i]perylene	32.0	29.7		ug/L		93	70 - 135
Benzo[k]fluoranthene	32.0	30.4		ug/L		95	70 - 133
Chrysene	32.0	29.3		ug/L		92	68 - 129
Dibenz(a,h)anthracene	32.0	31.0		ug/L		97	70 - 134
Fluoranthene	32.0	30.3		ug/L		95	68 - 126
Fluorene	32.0	27.2		ug/L		85	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	30.1		ug/L		94	65 - 133
1-Methylnaphthalene	32.0	25.7		ug/L		80	38 - 110
2-Methylnaphthalene	32.0	25.1		ug/L		78	34 - 110
Naphthalene	32.0	24.9		ug/L		78	36 - 110
Phenanthrene	32.0	28.3		ug/L		88	65 - 120
Pyrene	32.0	29.0		ug/L		91	70 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	85		34 - 110
Nitrobenzene-d5 (Surr)	75		36 - 120
Terphenyl-d14 (Surr)	97		40 - 145

Lab Sample ID: LCSD 500-652082/3-A
Matrix: Water
Analysis Batch: 652762

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 652082

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	32.0	28.6		ug/L		90	46 - 110	11	20
Acenaphthylene	32.0	30.8		ug/L		96	47 - 113	13	20
Anthracene	32.0	32.8		ug/L		103	67 - 118	11	20
Benzo[a]anthracene	32.0	32.0		ug/L		100	70 - 126	11	20
Benzo[a]pyrene	32.0	34.7		ug/L		108	70 - 135	12	20
Benzo[b]fluoranthene	32.0	33.7		ug/L		105	69 - 136	15	20
Benzo[g,h,i]perylene	32.0	33.9		ug/L		106	70 - 135	13	20
Benzo[k]fluoranthene	32.0	33.9		ug/L		106	70 - 133	11	20
Chrysene	32.0	32.8		ug/L		102	68 - 129	11	20
Dibenz(a,h)anthracene	32.0	35.5		ug/L		111	70 - 134	13	20
Fluoranthene	32.0	34.5		ug/L		108	68 - 126	13	20
Fluorene	32.0	30.9		ug/L		96	53 - 120	12	20
Indeno[1,2,3-cd]pyrene	32.0	34.5		ug/L		108	65 - 133	14	20
1-Methylnaphthalene	32.0	28.2		ug/L		88	38 - 110	9	20
2-Methylnaphthalene	32.0	28.3		ug/L		88	34 - 110	12	20
Naphthalene	32.0	27.7		ug/L		86	36 - 110	11	20
Phenanthrene	32.0	31.6		ug/L		99	65 - 120	11	20
Pyrene	32.0	31.9		ug/L		100	70 - 126	9	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	97		34 - 110
Nitrobenzene-d5 (Surr)	85		36 - 120
Terphenyl-d14 (Surr)	109		40 - 145

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 480-621775/1-A
Matrix: Water
Analysis Batch: 621870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 621775

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-Chlordane	<0.015		0.050	0.015	ug/L		04/14/22 14:51	04/15/22 13:39	1
4,4'-DDT	<0.011		0.050	0.011	ug/L		04/14/22 14:51	04/15/22 13:39	1
Dieldrin	<0.0098		0.050	0.0098	ug/L		04/14/22 14:51	04/15/22 13:39	1
Endosulfan I	<0.011		0.050	0.011	ug/L		04/14/22 14:51	04/15/22 13:39	1
Endosulfan II	<0.012		0.050	0.012	ug/L		04/14/22 14:51	04/15/22 13:39	1
Endrin	<0.014		0.050	0.014	ug/L		04/14/22 14:51	04/15/22 13:39	1
gamma-BHC (Lindane)	<0.0080		0.050	0.0080	ug/L		04/14/22 14:51	04/15/22 13:39	1
Heptachlor	<0.0085		0.050	0.0085	ug/L		04/14/22 14:51	04/15/22 13:39	1
Mirex	<0.0096		0.050	0.0096	ug/L		04/14/22 14:51	04/15/22 13:39	1
Toxaphene	<0.12		0.50	0.12	ug/L		04/14/22 14:51	04/15/22 13:39	1
trans-Chlordane	<0.011		0.050	0.011	ug/L		04/14/22 14:51	04/15/22 13:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	55		20 - 120	04/14/22 14:51	04/15/22 13:39	1
Tetrachloro-m-xylene	84		44 - 120	04/14/22 14:51	04/15/22 13:39	1

Lab Sample ID: LCS 480-621775/2-A
Matrix: Water
Analysis Batch: 621870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 621775

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
cis-Chlordane	0.400	0.421		ug/L		105	52 - 120
4,4'-DDT	0.400	0.499	*+	ug/L		125	59 - 120
Dieldrin	0.400	0.430		ug/L		107	66 - 128
Endosulfan I	0.400	0.427		ug/L		107	57 - 120
Endosulfan II	0.400	0.428		ug/L		107	66 - 131
Endrin	0.400	0.375		ug/L		94	65 - 135
gamma-BHC (Lindane)	0.400	0.463		ug/L		116	56 - 120
Heptachlor	0.400	0.525	*+	ug/L		131	58 - 120
trans-Chlordane	0.400	0.440		ug/L		110	54 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	50		20 - 120
Tetrachloro-m-xylene	99		44 - 120

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

Lab Sample ID: MB 500-651397/1-A
Matrix: Water
Analysis Batch: 651589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 651397

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		04/12/22 16:19	04/13/22 15:52	1
PCB-1221	<0.20		0.40	0.20	ug/L		04/12/22 16:19	04/13/22 15:52	1
PCB-1232	<0.20		0.40	0.20	ug/L		04/12/22 16:19	04/13/22 15:52	1
PCB-1242	<0.20		0.40	0.20	ug/L		04/12/22 16:19	04/13/22 15:52	1
PCB-1248	<0.20		0.40	0.20	ug/L		04/12/22 16:19	04/13/22 15:52	1
PCB-1254	<0.20		0.40	0.20	ug/L		04/12/22 16:19	04/13/22 15:52	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

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

Lab Sample ID: MB 500-651397/1-A
Matrix: Water
Analysis Batch: 651589

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 651397

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1260	<0.070		0.40	0.070	ug/L		04/12/22 16:19	04/13/22 15:52	1
Polychlorinated biphenyls, Total	<0.20		0.40	0.20	ug/L		04/12/22 16:19	04/13/22 15:52	1
Surrogate	MB MB		Limits			Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier							
Tetrachloro-m-xylene	46		30 - 120			04/12/22 16:19	04/13/22 15:52	1	
DCB Decachlorobiphenyl	90		30 - 140			04/12/22 16:19	04/13/22 15:52	1	

Lab Sample ID: LCS 500-651397/4-A
Matrix: Water
Analysis Batch: 651589

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 651397

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
PCB-1016	4.00	4.10		ug/L		102	56 - 120
PCB-1260	4.00	4.96		ug/L		124	53 - 137
Surrogate	LCS LCS		Limits			%Rec	
	%Recovery	Qualifier					
Tetrachloro-m-xylene	71		30 - 120				
DCB Decachlorobiphenyl	135		30 - 140				

Lab Sample ID: LCSD 500-651397/5-A
Matrix: Water
Analysis Batch: 651589

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 651397

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
PCB-1016	4.00	5.57	*+ *1	ug/L		139	56 - 120	31	20
PCB-1260	4.00	6.83	*+ *1	ug/L		171	53 - 137	32	20
Surrogate	LCSD LCSD		Limits			%Rec			
	%Recovery	Qualifier							
Tetrachloro-m-xylene	120		30 - 120						
DCB Decachlorobiphenyl	209	S1+	30 - 140						

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-651400/1-A
Matrix: Water
Analysis Batch: 651679

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 651400

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.0037		0.010	0.0037	mg/L		04/12/22 17:18	04/13/22 14:41	1
Cadmium	0.000502	J	0.0020	0.00043	mg/L		04/12/22 17:18	04/13/22 14:41	1
Chromium	<0.0017		0.010	0.0017	mg/L		04/12/22 17:18	04/13/22 14:41	1
Copper	0.00183	J	0.010	0.0018	mg/L		04/12/22 17:18	04/13/22 14:41	1
Lead	<0.0027		0.0050	0.0027	mg/L		04/12/22 17:18	04/13/22 14:41	1
Molybdenum	<0.0038		0.010	0.0038	mg/L		04/12/22 17:18	04/13/22 14:41	1
Nickel	<0.0019		0.010	0.0019	mg/L		04/12/22 17:18	04/13/22 14:41	1
Silver	<0.0015		0.0050	0.0015	mg/L		04/12/22 17:18	04/13/22 14:41	1
Zinc	0.0116	J	0.020	0.0050	mg/L		04/12/22 17:18	04/13/22 14:41	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

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

Lab Sample ID: LCS 500-651400/2-A
Matrix: Water
Analysis Batch: 651679

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 651400

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Arsenic	0.100	0.0959		mg/L		96	80 - 120	
Cadmium	0.0500	0.0468		mg/L		94	80 - 120	
Chromium	0.200	0.192		mg/L		96	80 - 120	
Copper	0.250	0.250		mg/L		100	80 - 120	
Lead	0.100	0.0937		mg/L		94	80 - 120	
Molybdenum	1.00	0.997		mg/L		100	80 - 120	
Nickel	0.500	0.482		mg/L		96	80 - 120	
Silver	0.0500	0.0449		mg/L		90	80 - 120	
Zinc	0.500	0.487		mg/L		97	80 - 120	

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-652626/1-A
Matrix: Water
Analysis Batch: 653399

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 652626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
Barium	<0.73		2.5	0.73	ug/L		04/20/22 15:53	04/25/22 18:53			1
Cadmium	<0.17		0.50	0.17	ug/L		04/20/22 15:53	04/25/22 18:53			1
Silver	<0.12		0.50	0.12	ug/L		04/20/22 15:53	04/25/22 18:53			1

Lab Sample ID: MB 500-652626/1-A
Matrix: Water
Analysis Batch: 653504

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 652626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		04/20/22 15:53	04/26/22 12:42			1
Chromium	<1.1		5.0	1.1	ug/L		04/20/22 15:53	04/26/22 12:42			1
Lead	<0.19		0.50	0.19	ug/L		04/20/22 15:53	04/26/22 12:42			1
Selenium	<0.98		2.5	0.98	ug/L		04/20/22 15:53	04/26/22 12:42			1

Lab Sample ID: LCS 500-652626/2-A
Matrix: Water
Analysis Batch: 653399

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 652626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Barium	500	502		ug/L		100	80 - 120	
Cadmium	50.0	51.0		ug/L		102	80 - 120	
Silver	50.0	51.5		ug/L		103	80 - 120	

Lab Sample ID: LCS 500-652626/2-A
Matrix: Water
Analysis Batch: 653504

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 652626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec	
							Limits	
Arsenic	100	100		ug/L		100	80 - 120	
Chromium	200	216		ug/L		108	80 - 120	
Lead	100	104		ug/L		104	80 - 120	
Selenium	100	101		ug/L		101	80 - 120	

Eurofins Chicago

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-652185/12-A
Matrix: Water
Analysis Batch: 652385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 652185

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000098		0.00020	0.000098	mg/L		04/18/22 10:45	04/19/22 08:32	1

Lab Sample ID: LCS 500-652185/13-A
Matrix: Water
Analysis Batch: 652385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 652185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00200	0.00212		mg/L		106	80 - 120

Lab Sample ID: MB 500-652561/12-A
Matrix: Water
Analysis Batch: 652778

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 652561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		04/20/22 10:00	04/21/22 08:42	1

Lab Sample ID: LCS 500-652561/13-A
Matrix: Water
Analysis Batch: 652778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 652561

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	2.00	2.23		ug/L		111	80 - 120

Lab Sample ID: MB 500-652485/1-B
Matrix: Water
Analysis Batch: 652778

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 652561

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		04/20/22 10:00	04/21/22 08:46	1

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 500-653158/1-A
Matrix: Water
Analysis Batch: 653173

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 653158

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease (HEM)	<1.3		5.0	1.3	mg/L		04/25/22 06:44	04/25/22 07:45	1

Lab Sample ID: LCS 500-653158/2-A
Matrix: Water
Analysis Batch: 653173

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 653158

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Oil & Grease (HEM)	40.0	31.90		mg/L		80	78 - 114

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Method: 9012B - Cyanide, Total and/or Amenable

Lab Sample ID: MB 500-652839/1-A
Matrix: Water
Analysis Batch: 652946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 652839

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide	<0.0036		0.0050	0.0036	mg/L		04/21/22 14:47	04/21/22 16:29	1

Lab Sample ID: HLCS 500-652839/2-A
Matrix: Water
Analysis Batch: 652946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 652839

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide	0.400	0.388		mg/L		97	90 - 110

Lab Sample ID: LCS 500-652839/3-A
Matrix: Water
Analysis Batch: 652946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 652839

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide	0.100	0.0949		mg/L		95	85 - 115

Lab Sample ID: LLCS 500-652839/4-A
Matrix: Water
Analysis Batch: 652946

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 652839

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide	0.0500	0.0595		mg/L		119	75 - 125

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-651974/1
Matrix: Water
Analysis Batch: 651974

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			04/15/22 15:05	1

Lab Sample ID: LCS 500-651974/2
Matrix: Water
Analysis Batch: 651974

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	200	186		mg/L		93	80 - 120

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: MW-1
Date Collected: 04/11/22 09:10
Date Received: 04/12/22 10:20

Lab Sample ID: 500-214947-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	653128	04/24/22 15:21	PMF	TAL CHI
Total/NA	Prep	3510C			652082	04/18/22 07:30	GG	TAL CHI
Total/NA	Analysis	8270D		1	652583	04/20/22 22:29	JSB	TAL CHI
Total/NA	Prep	3510C			651397	04/12/22 16:19	DAK	TAL CHI
Total/NA	Analysis	8082A		1	651589	04/13/22 19:06	JBj	TAL CHI
Dissolved	Filtration	FILTRATION			652485	04/20/22 07:30	MJG	TAL CHI
Dissolved	Prep	3005A			652626	04/20/22 15:53	LMB	TAL CHI
Dissolved	Analysis	6020A		1	653504	04/26/22 12:53	FXG	TAL CHI
Dissolved	Filtration	FILTRATION			652485	04/20/22 07:30	MJG	TAL CHI
Dissolved	Prep	3005A			652626	04/20/22 15:53	LMB	TAL CHI
Dissolved	Analysis	6020A		1	653399	04/25/22 19:03	FXG	TAL CHI
Dissolved	Filtration	FILTRATION			652485	04/20/22 07:30	MJG	TAL CHI
Dissolved	Prep	7470A			652561	04/20/22 10:00	MJG	TAL CHI
Dissolved	Analysis	7470A		1	652778	04/21/22 08:48	MJG	TAL CHI

Client Sample ID: MW-2
Date Collected: 04/11/22 10:20
Date Received: 04/12/22 10:20

Lab Sample ID: 500-214947-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	653128	04/24/22 15:44	PMF	TAL CHI
Total/NA	Prep	3510C			652082	04/18/22 07:30	GG	TAL CHI
Total/NA	Analysis	8270D		1	652583	04/20/22 22:51	JSB	TAL CHI
Total/NA	Prep	3510C			651397	04/12/22 16:19	DAK	TAL CHI
Total/NA	Analysis	8082A		1	651589	04/13/22 19:23	JBj	TAL CHI
Dissolved	Filtration	FILTRATION			652485	04/20/22 07:30	MJG	TAL CHI
Dissolved	Prep	3005A			652626	04/20/22 15:53	LMB	TAL CHI
Dissolved	Analysis	6020A		1	653504	04/26/22 12:56	FXG	TAL CHI
Dissolved	Filtration	FILTRATION			652485	04/20/22 07:30	MJG	TAL CHI
Dissolved	Prep	3005A			652626	04/20/22 15:53	LMB	TAL CHI
Dissolved	Analysis	6020A		1	653399	04/25/22 19:07	FXG	TAL CHI
Dissolved	Filtration	FILTRATION			652485	04/20/22 07:30	MJG	TAL CHI
Dissolved	Prep	7470A			652561	04/20/22 10:00	MJG	TAL CHI
Dissolved	Analysis	7470A		1	652778	04/21/22 08:51	MJG	TAL CHI

Client Sample ID: MW-3
Date Collected: 04/11/22 11:15
Date Received: 04/12/22 10:20

Lab Sample ID: 500-214947-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	653128	04/24/22 16:07	PMF	TAL CHI
Total/NA	Prep	3510C			652082	04/18/22 07:30	GG	TAL CHI
Total/NA	Analysis	8270D		1	652583	04/20/22 23:14	JSB	TAL CHI
Total/NA	Prep	3510C			651397	04/12/22 16:19	DAK	TAL CHI
Total/NA	Analysis	8082A		1	651589	04/13/22 19:39	JBj	TAL CHI

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Client Sample ID: MW-3

Lab Sample ID: 500-214947-3

Date Collected: 04/11/22 11:15

Matrix: Water

Date Received: 04/12/22 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Filtration	FILTRATION			652485	04/20/22 07:30	MJG	TAL CHI
Dissolved	Prep	3005A			652626	04/20/22 15:53	LMB	TAL CHI
Dissolved	Analysis	6020A		1	653504	04/26/22 13:00	FXG	TAL CHI
Dissolved	Filtration	FILTRATION			652485	04/20/22 07:30	MJG	TAL CHI
Dissolved	Prep	3005A			652626	04/20/22 15:53	LMB	TAL CHI
Dissolved	Analysis	6020A		1	653399	04/25/22 19:10	FXG	TAL CHI
Dissolved	Filtration	FILTRATION			652485	04/20/22 07:30	MJG	TAL CHI
Dissolved	Prep	7470A			652561	04/20/22 10:00	MJG	TAL CHI
Dissolved	Analysis	7470A		1	652778	04/21/22 08:53	MJG	TAL CHI

Client Sample ID: Drums

Lab Sample ID: 500-214947-4

Date Collected: 04/11/22 11:50

Matrix: Water

Date Received: 04/12/22 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	653113	04/24/22 22:08	STW	TAL CHI
Total/NA	Prep	3510C			621887	04/15/22 09:13	JMP	TAL BUF
Total/NA	Analysis	8270D		1	622149	04/19/22 02:27	PJQ	TAL BUF
Total/NA	Prep	3510C			621775	04/14/22 14:51	CMC	TAL BUF
Total/NA	Analysis	8081B		1	621870	04/15/22 20:29	JLS	TAL BUF
Total/NA	Prep	3510C			651397	04/12/22 16:19	DAK	TAL CHI
Total/NA	Analysis	8082A		1	651589	04/13/22 19:55	JBK	TAL CHI
Total/NA	Prep	3010A			651400	04/12/22 17:18	LMB	TAL CHI
Total/NA	Analysis	6010C		1	651679	04/13/22 15:23	JJB	TAL CHI
Total/NA	Prep	7470A			652185	04/18/22 10:45	MJG	TAL CHI
Total/NA	Analysis	7470A		1	652385	04/19/22 10:02	MJG	TAL CHI
Total/NA	Prep	1664B			653158	04/25/22 06:44	AM	TAL CHI
Total/NA	Analysis	1664B		1	653173	04/25/22 07:45	AM	TAL CHI
Total/NA	Prep	9010C			652839	04/21/22 14:47	TMS	TAL CHI
Total/NA	Analysis	9012B		1	652946	04/21/22 17:48	SB	TAL CHI
Total/NA	Analysis	SM 2540D		1	651974		SMO	TAL CHI
					(Start)	04/15/22 15:17		
					(End)	04/15/22 15:19		

Client Sample ID: Trip Blank

Lab Sample ID: 500-214947-5

Date Collected: 04/11/22 00:00

Matrix: Water

Date Received: 04/12/22 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	653128	04/24/22 14:58	PMF	TAL CHI

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
 TAL CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: K. Singh & Associates, Inc
 Project/Site: MMSD VA Grounds MIS Relocation - 40459

Job ID: 500-214947-1

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-22
Connecticut	State	PH-0568	09-30-22
Florida	NELAP	E87672	06-30-22
Georgia	State	10026 (NY)	04-01-23
Georgia	State Program	N/A	03-31-09 *
Georgia (DW)	State	956	03-31-22 *
Illinois	NELAP	200003	09-30-22
Iowa	State	374	03-01-23
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	01-31-23
Kentucky (DW)	State	90029	12-31-22
Kentucky (UST)	State	30	04-01-22 *
Kentucky (WW)	State	KY90029	12-31-22
Louisiana	NELAP	02031	06-30-22
Maine	State	NY00044	12-04-22
Maryland	State	294	03-31-23
Massachusetts	State	M-NY044	06-30-22
Michigan	State	9937	04-01-22 *
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-22
New Jersey	NELAP	NY455	06-30-22
New York	NELAP	10026	03-31-23
Oregon	NELAP	NY200003	06-12-22
Pennsylvania	NELAP	68-00281	07-31-22
Rhode Island	State	LAO00328	12-30-22
Tennessee	State	02970	04-01-23
Texas	NELAP	T104704412-18-10	07-31-22
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-22
Washington	State	C784	02-10-23
Wisconsin	State	998310390	08-31-22

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



500-214947

Sample Collector(s) Alex Huebner	Title Staff Engineer	Telephone # (incl area code) (262) 821 1171	Report To Robert Reineke
Property Owner VA Grounds	Property Address 5000 West National Avenue West Milwaukee WI	Telephone # (incl area code)	KSingh Project # 40459

I hereby certify that I received, properly and disposed of the samples as noted below

Relinquished By (Signature) <i>[Signature]</i>	Date/Time 4/11/22, 2:00 PM	Received By (Signature) <i>[Signature]</i>	Temperature Blank 19 → 20, 56 → 42
Relinquished By (Signature) <i>[Signature]</i>	Date/Time 4/11/22 1700	Received By (Signature) <i>[Signature]</i>	4/12/22 1020

If samples were received on ice and there was ice remaining you may report the temperature as received on ice" If all of the ice was melted the temperature of the melt may be substituted for the temperature blank

1 Specify groundwater (GW) soil (S) air (A) sludge (SL) surface water (SW) etc															Sample Condition						
2 Sample description must clearly correlate the sample I D to the sampling location															# / Type of Container						
Date Collected	Time Collected	Type (1)	Device	Location/Description (2)	VOCs	PAHs	Dissolved RCRA Metals	PCBs	8082A 8270D	8081B - Organochlorine Pesticides (GCL)	8260B - VOC Acrolein Only	16135 - Dioxins and Furans (HCBGJ/HBMS)	6020A, 7470A	335 4 Cyanide	1664B - HEM Oil and Grease	8270E - OrgLead - Tetraethyl Lead	NaOH	HCL	H2SO4 / H2NO3	Unpres	Other Comment
4/11/2022	9 10	GW	Bailer	MW 1	X	X	x	x										3		3	Lab Filter
4/11/2022	10 20	GW	Bailer	MW-2	X	X	X	x										3		3	Lab Filter
4/11/2022	11 15	GW	Bailer	MW-3	X	X	X	x										3		3	Lab Filter
4/11/2022	11 50	GW	Bailer	Drums					X	X	X	X	X	X	X	X	1		2 / 1	13	
4/11/2022	--		-	Trip Blank	X													1			

21
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DEPARTMENT USE / OPTIONAL FOR SOIL SAMPLES				DEPARTMENT USE ONLY			
Disposition of unused portion of sample Laboratory should (check)				Split Samples			
<input type="checkbox"/> Dispose	<input type="checkbox"/> Return	<input type="checkbox"/> Retain for (days)	<input type="checkbox"/> Other	Offered	<input type="checkbox"/> Y	<input type="checkbox"/> N	Accepted By
				Accepted	<input type="checkbox"/> Y	<input type="checkbox"/> N	Signature

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15

ORIGIN ID:RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST.
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE 11APR22
ACTWTG: 56 50 LB
CAD: 0269688/CAFE3511

BILL RECIPIENT



570PC/RBR/REF#1

TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

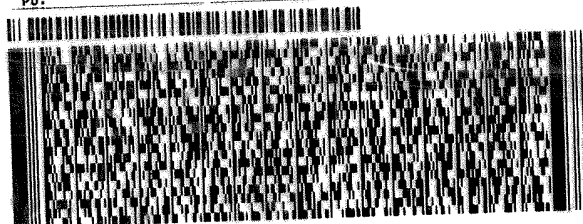
500-214947 Wayb

UNIVERSITY PARK IL 60484

(262) 202-5955
INU:
PD:

REF:

DEPT:



FedEx
Express



1102012110 US

1 of 2

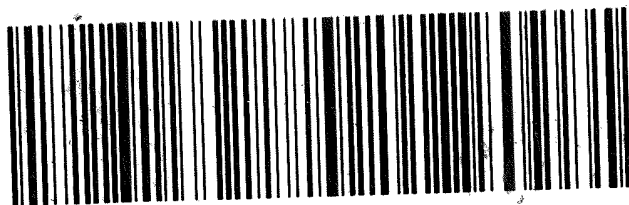
TRK# 5632 2369 6258
0201

MASTER

79 JOTA

TUE - 12 APR 10:30A
PRIORITY OVERNIGHT

60484
IL-US ORD



ORIGIN ID RRLA (262) 202-5955
IAN EVANS
EUROFINS TESTAMERICA
4125 N 124TH ST
SUITE F (REAR)
BROOKFIELD, WI 53005
UNITED STATES US

SHIP DATE: 11APR22
ACTWTG: 42 85 LB
CAD: 0269688/CAFE3511

BILL RECIPIENT

570PC/RBR/REF#1

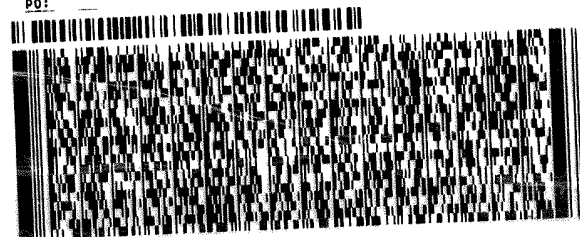
TO **SAMPLE RECEIPT**
EUROFINS
2417 BOND ST.

UNIVERSITY PARK IL 60484

(262) 202-5955
INU:
PD:

REF:

DEPT:



FedEx
Express



1102012110 US

2 of 2

MPS# 5632 2369 6269
0263

Mstr# 5632 2369 6258

0201

79 JOTA

TUE - 12 APR 10:30A
PRIORITY OVERNIGHT

60484
IL-US ORD





Client Information (Sub Contract Lab)			Sampler:	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-214947-1																								
Client Contact: Shipping/Receiving			Phone:	E-Mail: Sandra.Fredrick@et.eurofinsus.com	State of Origin: Wisconsin	Page: Page 1 of 1																								
Company: Eurofins Environment Testing Northeast,			Accreditations Required (See note): State - Wisconsin; State Program - Wisconsin		Job #: 500-214947-1																									
Address: 10 Hazelwood Drive,		Due Date Requested: 4/25/2022		Analysis Requested																										
City: Amherst		TAT Requested (days):																												
State, Zip: NY, 14228-2298		PO #:																												
Phone: 716-691-2600(Tel) 716-691-7991(Fax)		WO #:																												
Email:		Project #: 50019997																												
Project Name: MMSD VA Grounds MIS Relocation - 40459		SSOW#:																												
Site:				Preservation Codes:																										
							<table style="width:100%; border:none;"> <tr> <td>A - HCL</td> <td>M - Hexane</td> </tr> <tr> <td>B - NaOH</td> <td>N - None</td> </tr> <tr> <td>C - Zn Acetate</td> <td>O - AsNaO2</td> </tr> <tr> <td>D - Nitric Acid</td> <td>P - Na2O4S</td> </tr> <tr> <td>E - NaHSO4</td> <td>Q - Na2SO3</td> </tr> <tr> <td>F - MeOH</td> <td>R - Na2S2O3</td> </tr> <tr> <td>G - Amchlor</td> <td>S - H2SO4</td> </tr> <tr> <td>H - Ascorbic Acid</td> <td>T - TSP Dodecahydrate</td> </tr> <tr> <td>I - Ice</td> <td>U - Acetone</td> </tr> <tr> <td>J - DI Water</td> <td>V - MCAA</td> </tr> <tr> <td>K - EDTA</td> <td>W - pH 4-5</td> </tr> <tr> <td>L - EDA</td> <td>Z - other (specify)</td> </tr> </table>			A - HCL	M - Hexane	B - NaOH	N - None	C - Zn Acetate	O - AsNaO2	D - Nitric Acid	P - Na2O4S	E - NaHSO4	Q - Na2SO3	F - MeOH	R - Na2S2O3	G - Amchlor	S - H2SO4	H - Ascorbic Acid	T - TSP Dodecahydrate	I - Ice	U - Acetone	J - DI Water	V - MCAA	K - EDTA
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Sample Identification - Client ID (Lab ID)			Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D/3510C_LVI Select PAHs, Alkylated Lead & SVOCs	8081B/3510C_LVI Organochlorine Pesticides (GC)	Total Number of containers	Special Instructions/Note:																		
Drums (500-214947-4)			4/11/22	11:50 Central		Water		X	X		2																			

Note: Since laboratory accreditations are subject to change, Eurofins Chicago places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Chicago laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Chicago attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Chicago.

Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed				<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Deliverable Requested: I, II, III, IV, Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:			

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by: <i>Stephanie Hernandez</i>		Date/Time: 4/12/22 16:30	Company: <i>EE7A</i>	Received by: <i>[Signature]</i>		Date/Time: 4-14-22 1000	Company: <i>TAB</i>
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:
Relinquished by:		Date/Time:	Company:	Received by:		Date/Time:	Company:
Custody Seals Intact:	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				
Δ Yes Δ No			2.6 ICE				

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4/29/2022



Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-214947-1

Login Number: 214947

List Number: 1

Creator: Scott, Sherri L

List Source: Eurofins Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is < /= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0,4.2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-214947-1

Login Number: 214947

List Number: 3

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

List Creation: 04/14/22 01:59 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6 ICE IR GUN #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	