00 91 13

ADDENDUM NO. 1

DATE: November 7, 2024

FROM: Baxter & Woodman, Inc., Consulting Engineers

TO: Planholders of record for the Work titled:

City of Joliet, Illinois
Virginia Phase 1 Water Main Improvements
City of Joliet Contract No. 2853-0125

The Bidding Documents are amended as follows:

1. DRAWINGS

   A. Delete Sheet G003 in its entirety, and insert Sheet G003, revision dated November 7, 2024 in lieu thereof.

   B. Delete Sheet C001 in its entirety, and insert Sheet C001, revision dated November 7, 2024 in lieu thereof.

2. SPECIFICATIONS

   A. Section 00 01 10 TABLE OF CONTENTS

      Add “APPENDIX D – LPC 663” to the end of the Table of Contents.

   B. Section 00 41 00.13, BID FORM:

      Delete Section 00 41 00.13, BID FORM in its entirety and insert the attached BID FORM, revision dated November 7, 2024 in lieu thereof.

   C. Section 00 43 93.41, BID SUBMITTAL CHECKLIST:

      Delete Section 00 43 93.41, BID SUBMITTAL CHECKLIST in its entirety and insert the attached BID SUBMITTAL CHECKLIST, revision dated November 7, 2024 in lieu thereof in order to insert paragraph c “City of Joliet Affidavits”.

D. Section 00 73 00.41, SUPPLEMENTARY CONDITIONS

Page 00 73 00.41-6, delete paragraph 5.08 and replace with the following:

"5.08 Additional Insureds:
Additional insureds referenced in paragraphs 5.04 and 5.07 shall be as follows:

Owner:	City of Joliet, Illinois
Address:	150 West Jefferson Street, Joliet, Illinois 60432
Engineer:	Baxter & Woodman, Inc.
Address:	8678 Ridgefield Road, Crystal Lake, Illinois 60012
Other:	Illinois Department of Transportation
Address:	201 West Center Court, Schaumburg, IL 60196
Other:	Burns & McDonnell
Address:	200 West Adams Street; Suite 2700, Chicago, IL 60606"

Page 00 73 00.41-14, delete paragraph 12.06 and replace with the following:

"12.06 Liquidated Damages
Contractor understands that time is of the essence and that Owner will suffer financial loss if the Work is not completed within the times or by the dates specified in the Bid Form, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. Contractor also recognizes the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Contractor shall pay Owner as liquidated damages for delay (but not as a penalty) $1,200 for each day that expires after the time or date specified in the Bid Form for Substantial Completion until the Work is substantially complete. After Substantial Completion, if Contractor shall neglect, refuse or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by Owner, Contractor shall pay Owner $600 for each day that expires after the time or date specified in the Bid Form for completion and readiness for final payment. Liquidated damages accrued after the Substantial Completion date will be withheld from the project retention until the work is substantially completed. Liquidated damages accrued after the final completion date will also be withheld from the project retention until final completion is achieved. If the amount of project retention is not sufficient enough to cover the amount of accrued liquidated damages for substantial and final completion, further payments to the Contractor will be withheld until to the project is substantially and final completed. The Contractor agrees the Work shall be completed based on the interim milestones specified in Section 01 31 13.16.

12.07 Engineering Costs after Date for Substantial Completion
Contractor understands the Owner will have part-time Resident Project Representative labor costs and expenses after the date established for Substantial Completion. The Contractor understands and agrees to pay the difference between part-time and full-time Resident Project Representative labor costs, expenses, and overtime engineering costs, if any, required after the date established for Substantial Completion.

Owner will pay the cost for such engineering services, overtime engineering services, and out-of-pocket and mileage expenses; and shall deduct such cost from payments due Contractor. Overtime engineering services shall be charged at Engineer's standard hourly rates applied on a time and one-half basis for all time over eight hours on any single working day and for all hours on Saturday, and on a double time basis for all Sunday and Legal Holiday hours.

If the amount due Contractor is not sufficient to cover the cost of overtime engineering services, Contractor shall reimburse Owner in the amount necessary to cover such costs.

12.08 Engineering Costs after Date for Final Completion
Contractor understands the Owner will be required to pay for additional engineering time and expenses if the Work is not complete on or before the date established for Final Completion. The Contractor understands and agrees to pay for all engineering costs, including labor and expenses for full-time Resident Project Representative, including overtime engineering costs, required after the date established for Final Completion.

Owner will pay the cost for such engineering services, overtime engineering services, and out-of-pocket and mileage expenses; and shall deduct such cost from payments due Contractor. Overtime engineering services shall be charged at Engineer's standard hourly rates applied on a time and one-half basis for all time over eight hours on any single working day and for all hours on Saturday, and on a double time basis for all Sunday and Legal Holiday hours. If the amount due Contractor is not sufficient to cover the cost of overtime engineering services, Contractor shall reimburse Owner in the amount necessary to cover such costs."

E. Section 00 73 00.42, PREVAILING WAGES:

Delete Section 00 73 00.42, PREVAILING WAGES in its entirety and insert the attached PREVAILING WAGES, revision dated November 7, 2024 in lieu thereof.

F. Section 01 41 26 PERMITS

Delete paragraph 1.8.B.1 and replace with the following:

"1. IDOT has determined the value of the bond the contractor must provide is $25,000."

G. APPENDIX D – LPC 663:

Insert the attached APPENDIX D – LPC 663.

Nothing in this Addendum shall be construed as changing other requirements of the Bidding Documents. Each Bidder shall acknowledge receipt of this Addendum where indicated in the Bid Form.

END OF ADDENDUM NO. 1

CITY OF JOLIET WATER SYSTEM GENERAL NOTES

1. VERIFY LOCATION, SIZE, AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF THE WATER MAIN. THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND IS GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER AND OWNER DO NOT ASSUME RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES AND LOCATE UTILITIES PRIOR TO ANY WORK.

2. WHENEVER IT BECOMES NECESSARY TO RELOCATE UNDERGROUND GAS MAINS, TELEPHONE CONDUIT, OR ELECTRICAL LINES OR SUPPORT OR RELOCATE UTILITY POLES, THE UTILITY COMPANY INVOLVED WILL MAKE SUCH RELOCATION OR PROVIDE POLE SUPPORT. NOTIFY THE UTILITY COMPANY PROMPTLY. THIS WORK WILL BE INCIDENTAL TO THE CONTRACT

3. WHEREVER OBSTRUCTIONS NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED DURING THE PROGRESS OF THE WORK AND INTERFERE TO SUCH AN EXTENT THAT ALTERATIONS TO THE DRAWINGS ARE REQUIRED, THE ENGINEER SHALL BE NOTIFIED PRIOR TO ANY CHANGES.

4. HORIZONTAL AND VERTICAL SEPARATION OF WATER MAINS AND SEWER LINES SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE "STANDARD SPECIFICATION FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS".

5. PROVIDE 48 HOURS ADVANCE NOTICE TO THE CITY WHEN CONNECTION TO AN EXISTING WATER MAIN WILL BE MADE. COORDINATE SHUTDOWN OF EXISTING WATER MAINS WHEN REQUIRED WITH THE CITY. SCHEDULE THE WORK TO MINIMIZE THE NUMBER AND LENGTH OF SHUTDOWNS. PROVIDE WRITTEN NOTIFICATION OF SHUTDOWNS TO WATER USERS AFFECTED 24 HOURS IN ADVANCE.

6. NOTIFY THE CITY'S PUBLIC UTILITIES DEPARTMENT IMMEDIATELY IF EXISTING LEAD WATER SERVICES ARE DISCOVERED.

7. PROVIDE PROPERTY OWNERS ADVANCE NOTICE OF CONSTRUCTION ACTIVITIES THAT WILL RESTRICT THE USE OF THEIR DRIVEWAYS.

8. DO NOT STORE BEDDING AND BACKFILL MATERIALS, PIPES, FITTINGS, VAULTS, OR OTHER MATERIALS IN AREAS THAT WILL OBSTRUCT SIGHT LINES FOR STREETS AND DRIVEWAYS.

9. ALL PROPOSED WATER MAIN AND SERVICES UNDER AND WITHIN 2' OF PAVEMENT OR SIDEWALK SHALL BE BACKFILLED WITH TRENCH BACKFILL WHICH SHALL BE CRUSHED STONE, GRADATION CA 6 OR CA 7.

10. INSTALL NEW WATER MAIN WITH A MINIMUM OF 5' COVER BELOW EXISTING OR PROPOSED GROUND SURFACE UNLESS GREATER DEPTH IS REQUIRED TO AVOID EXISTING UTILITIES OR WHERE INDICATED ON THE DRAWINGS.

11. PROVIDE COMPRESSION TYPE FIRE HYDRANTS WITH A 5¼–INCH MINIMUM SIZE MAIN VALVE ASSEMBLY, O–RING SEALS, TWO 2½–INCH HOSE NOZZLES, AND A 4½–INCH PUMPER NOZZLE WITH NATIONAL STANDARD THREADS, A NATIONAL STANDARD OPERATING NUT, AND AN ABOVE GROUND BREAK FLANGE. COLOR FOR HYDRANTS ON POTABLE DISTRIBUTION MAINS SHALL BE RED, HYDRANTS ON RAW WATER MAINS SHALL BE GREEN. COLOR FOR PRIVATE SYSTEM HYDRANTS SHALL BE YELLOW. ACCEPTABLE MANUFACTURERS ARE CLOW MEDALLION, EJ 5BR250, OR MUELLER CENTURION A423.

12. PROVIDE A TEMPORARY COVERING OVER ALL NEW FIRE HYDRANTS UNTIL ALL NEW WATER MAINS ARE PUT INTO SERVICE AND NEW FIRE HYDRANTS ARE OPERABLE.

13. GATE VALVES SHALL BE IN ACCORDANCE WITH AWWA C515 (DUCTILE IRON BODY), BRONZE FITTED, RESILIENT WEDGE AND SEAT TYPE WITH NON–RISING STEM AND O–RING PACKING. ALL INTERNAL AND EXTERNAL SURFACES SHALL HAVE A FUSION BONDED EPOXY COATING. ACCEPTABLE VALVE MANUFACTURERS ARE AMERICAN FLOW CONTROL, CLOW, AND EJ.

14. BUTTERFLY VALVES SHALL BE IN ACCORDANCE WITH AWWA C504 FOR PRESSURE CLASS 150B, CAST IRON BODY, RUBBER–SEATED, TIGHT CLOSING TYPE SUITABLE FOR BURIED SERVICE. ACCEPTABLE VALVE MANUFACTURERS ARE AMERICAN FLOW CONTROL, CLOW, AND EJ.

15. LOCATE PRESSURE CONNECTIONS, IF INDICATED ON THE DRAWINGS OR WHEN DIRECTED BY THE ENGINEER, A MINIMUM OF 2' FROM ANY EXISTING REPAIR SLEEVES OR PIPE JOINTS.

16. THE CITY OF JOLIET WATER DEPARTMENT SHALL BE RESPONSIBLE FOR COMPLETING ALL TAPS TO EXISTING WATER MAINS. CONTRACTOR WILL BE RESPONSIBLE FOR CALLING 815–724–4230 TO SCHEDULE AN APPOINTMENT WITH THE CITY WATER DEPARTMENT. APPOINTMENTS ARE AVAILABLE ON TUESDAYS AND THURSDAYS.

17. SUCCESSFULLY TEST, DISINFECT, AND FLUSH WATER MAIN, AND OBTAIN ACCEPTANCE OF THE WATER MAIN BY THE CITY OF JOLIET, PRIOR TO MAKING WATER SERVICE CONNECTIONS. FLUSH PIPELINES TO OBTAIN A VELOCITY OF 2.5 FT/S PER AWWA STANDARD C651.

18. CITY OF JOLIET WILL ALLOW TESTING NEW WATER MAIN AGAINST EXISTING VALVES OR AGAINST A CAP WHERE A NEW VALVE IS NOT PRESENT.

19. USE MECHANICAL JOINT FITTINGS TO PLUG/CAP EXISTING WATER MAINS TO REMAIN IN SERVICE AND FOR EXISTING WATER MAINS TO BE ABANDONED. PLUGS/CAPS ON WATER MAIN TO REMAIN IN SERVICE SHALL INCLUDE AN ADEQUATELY SIZED CAST–IN–PLACE CONCRETE THRUST BLOCK.

20. AS–BUILT DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS THE PROJECT IS COMPLETED. ANY CHANGE IN THE LENGTH, LOCATION, OR ALIGNMENT SHALL BE SHOWN IN RED.

21. EROSION CONTROL WILL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AS CONTAINED IN IEPA/WPC/87–012 OR CURRENT EDITION.

22. REPLACE ALL CONCRETE SIDEWALKS DISTURBED BY CONSTRUCTION TO THE NEAREST CONSTRUCTION JOINT. A MAXIMUM LENGTH OF TEN LINEAL FEET PER CROSSING WILL BE UTILIZED FOR PAY QUANTITY CALCULATIONS.

23. PAVEMENT RESTORATION WILL BE MEASURED IN PLACE AND THE AREA COMPUTED IN SQUARE YARDS. ALL AREAS DISTURBED WILL BE REPLACED, BUT THE MAXIMUM ALLOWABLE WIDTHS USED FOR PAY QUANTITY CALCULATIONS WILL BE 6 FEET CENTERED ON THE PIPE. IF THE CONTRACTOR RELOCATES THE TRENCH AWAY FROM THE CURB AND GUTTER, THE PAVEMENT PATCH WILL EXTEND FROM THE SAWCUT IN THE EXISTING PAVEMENT TO THE FACE OF THE GUTTER AND THE MAXIMUM ALLOWABLE WIDTH OF 6 FEET WILL BE USED FOR PAY QUANTITY CALCULATIONS.

- MAPLE STREET (FROM BENTON TO JACKSON), WENBERG STREET, VIRGINIA STREET, VIRGINIA ALLEY, AND SOLAND COURT SHALL HAVE 2.5 INCHES OF BINDER AND 1.5 INCHES OF SURFACE COURSE.
- MAPLE STREET (FROM WENBERG TO BENTON), JACKSON STREET AND BENTON STREET SHALL HAVE 5 INCHES OF BINDER AND 2 INCHES OF SURFACE COURSE.

23. IT SHALL BE THE CONTRACTOR'S DUTY AND RESPONSIBILITY TO ASCERTAIN AND EXECUTE THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS. THIS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, THE EXCLUSIVE DUTY AND RESPONSIBILITY TO PROVIDE FOR WORKPLACE SAFETY AND WORKER SUPERVISION. IT SHALL EXCLUSIVELY BE THE CONTRACTOR'S DUTY AND RESPONSIBILITY TO INVESTIGATE AND ASCERTAIN THE CURRENT PHYSICAL STATE AND OPERATIONAL STATUS OF THE CITY'S WATER SUPPLY SYSTEM AND THE CITY'S SANITARY SEWER SYSTEM, INCLUDING WHETHER A WATER MAIN OR OTHER VESSEL IS OPERATIONAL, CONTAINS WATER, IS PRESSURIZED, OR IS OTHERWISE SAFE TO ALTER. ANY INFORMATION PROVIDED BY THE CITY, OR ITS EMPLOYEES AND CONSULTANTS, REGARDING THE STATE OF ITS WATER SUPPLY AND SANITARY SEWER SYSTEMS IS PROVIDED AS A COURTESY TO THE CONTRACTOR BUT IS NOT WARRANTED TO BE TRUE AND MAY NOT BE RELIED ON BY THE CONTRACTOR IN SATISFACTION OF, OR TO DIMINISH, ITS EXCLUSIVE DUTY TO ASCERTAIN AND EXECUTE THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION IN ACCORDANCE WITH THE DRAWINGS, SPECIFICATIONS, AND OTHER CONTRACT DOCUMENTS AND ITS EXCLUSIVE RESPONSIBILITY TO PROVIDE FOR WORKPLACE SAFETY AND WORKER SUPERVISION.

24. CONTRACTOR TO COMPLY WITH PROJECT MILESTONES AND REQUIREMENTS SPECIFIED IN SUPPLEMENTARY CONDITIONS AND SECTION 01 31 13.16

25. CONTRACTOR TO DISTRIBUTE DOOR HANGERS AT VARIOUS MILESTONES DURING THE PROJECT. DOOR HANGERS WILL BE PROVIDED BY THE OWNER. DOOR HANGERS MUST BE DISTRIBUTED AT THE FOLLOWING MILESTONES:
- ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 48 HOURS IN ADVANCE OF WATER MAIN SHUTDOWNS TO ALL AFFECTED STRUCTURES (THE SAME STRUCTURE MAY RECEIVE MORE THAN ONE DOOR HANGER).
- 48 HOURS IN ADVANCE OF WATER SERVICE LINE REPLACEMENTS.
- ONE WEEK PRIOR TO RESTORATION ACTIVITIES ON ANY STREET.

26. CONTRACTOR SHALL COORDINATE WITH CITY ARBORIST IN AREAS WHERE THE WATER MAIN IS TO BE INSTALLED WITH TREE TUNNELING OR WHERE TREE REMOVAL IS NECESSARY FOR THE INSTALLATION OF THE WATER MAIN.

SUMMARY OF QUANTITIES

No.	PAY ITEM	UNIT	QUANTITY
	PART A – WATER MAIN IMPROVEMENTS		
1	TRAFFIC CONTROL AND PROTECTION	LSUM	1
2	GRANULAR TRENCH BACKFILL	CUYD	300
3	WATER MAIN (OPEN CUT), 6–INCH (DI)	FOOT	165
4	WATER MAIN (OPEN CUT), 6–INCH	FOOT	112
5	WATER MAIN (OPEN CUT), 8–INCH (DI)	FOOT	152
6	WATER MAIN (OPEN CUT), 8–INCH	FOOT	4,796
7	MISCELLANEOUS FITTINGS	POUND	6,500
8	CONNECT TO WATER MAIN (NON–PRESSURE), 6–INCH	EACH	5
9	CONNECT TO WATER MAIN (NON–PRESSURE), 8–INCH	EACH	2
10	GATE VALVE, 6–INCH	EACH	5
11	GATE VALVE, 8–INCH	EACH	12
12	VALVE VAULT, 4–FOOT DIAMETER	EACH	17
13	VALVE VAULT (ADDITIONAL DEPTH), 4–FOOT DIAMETER	VFT	2
14	VALVE VAULT (ADDITIONAL DEPTH), 5–FOOT DIAMETER	VFT	3
15	FIRE HYDRANT	EACH	17
16	FIRE HYDRANT BARREL EXTENSION	VFT	2
17	LINE STOP, 6–INCH	EACH	1
18	LINE STOP, 8–INCH	EACH	1
19	SANITARY SEWER REMOVAL AND REPLACEMENT, 10–INCH	FOOT	50
20	STORM SEWER REMOVAL AND REPLACEMENT, 10–INCH	FOOT	206
22	ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES	LSUM	1
23	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1–INCH	EACH	38
24	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5–INCH	EACH	1
25	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 2–INCH	EACH	1
26	WATER SERVICE LINE TYPE K – OPEN CUT, 1–INCH	FOOT	244
27	WATER SERVICE LINE TYPE K – OPEN CUT, 1.5–INCH	FOOT	75
28	WATER SERVICE LINE TYPE K – OPEN CUT, 2–INCH	FOOT	75
29	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1–INCH	FOOT	962
30	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1.5–INCH	FOOT	75
31	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 2–INCH	FOOT	75
32	WATER SERVICE LINE TYPE L – 1–INCH	FOOT	200
33	WATER SERVICE CONNECTION ON PRIVATE PROPERTY – BASEMENT OR CRAWL SPACE	EACH	2
34	WATER METER RELOCATION	EACH	2
35	WATER SERVICE CASING PIPE	FOOT	30
36	PROJECT MANAGEMENT	HOUR	6
37	UTILITY LOCATION – PRIVATE PROPERTY	EACH	3
38	LANDSCAPING PROJECT MANAGEMENT	HOUR	4
39	LANDSCAPING RESTORATION ALLOWANCE	EACH	4
40	SHRUB AND BRUSH DISPOSAL	EACH	6
41	FENCE TO BE REMOVED AND RE–ERECTED	FOOT	25
42	CLEARING	LSUM	1
43	REMOVE AND REPLACE DRAIN TILES, 6–INCH THROUGH 12–INCH	FOOT	130
44	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	2
45	EXPLORATORY EXCAVATION	EACH	14
46	INLET PROTECTION FILTER	EACH	38
47	RESTORATION OF LAWNS AND PARKWAYS	SQYD	1,000
48	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5–INCH BINDER 1.5–INCH SURFACE	SQYD	2,100
49	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 5–INCH BINDER 2–INCH SURFACE	SQYD	1,000
50	HOT–MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 5–INCH	SQYD	100
51	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6–INCH	SQYD	300
52	GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT	SQYD	100
53	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1,350
54	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT	2,000
55	DETECTABLE WARNINGS	SQFT	10
56	PAVEMENT MARKING – LINE, 24–INCH (THERMOPLASTIC)	FOOT	20
57	PAVEMENT MARKING – LINE, 6–INCH (THERMOPLASTIC)	FOOT	60
58	REMOVAL AND REPLACEMENT OF SIGNS	EACH	2
59	TREE ROOT PRUNING	EACH	1
60	TREE TRIMMING	LSUM	1
61	DUST CONTROL	DAY	33
62	ROCK EXCAVATION	CUYD	100
63	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	6
64	SOIL TESTS FOR CONTAMINANTS	EACH	1
65	CONTAMINATED WASTE DISPOSAL	CUYD	6

	PART B – LEAD SERVICE LINE IMPROVEMENTS		
66	PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOUR	12
67	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 3/4–INCH	FOOT	25
68	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1–INCH	FOOT	50
69	WATER SERVICE CASING PIPE (LEAD SERVICE REPLACEMENT), 2–INCH	FOOT	40
70	WATER SERVICE CONNECTION ON PRIVATE PROPERTY – BASEMENT OR CRAWL SPACE (LEAD SERVICE REPLACEMENT)	EACH	2
71	WATER SERVICE CONNECTION ON PRIVATE PROPERTY – SLAB (LEAD SERVICE REPLACEMENT)	EACH	2
72	UTILITY LOCATION – PRIVATE PROPERTY (LEAD SERVICE REPLACEMENT)	EACH	4
73	WATER METER RELOCATION (LEAD SERVICE REPLACEMENT)	EACH	2
74	WATER METER REPLACEMENT (LEAD SERVICE REPLACEMENT)	EACH	2
75	LANDSCAPING PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOUR	8
76	LANDSCAPING RESTORATION ALLOWANCE (LEAD SERVICE REPLACEMENT)	EACH	4
77	SHRUB AND BRUSH DISPOSAL (LEAD SERVICE REPLACEMENT)	EACH	8
78	FENCE TO BE REMOVED AND RE–ERECTED (LEAD SERVICE REPLACEMENT)	FOOT	20
79	RESTORATION OF LAWNS AND PARKWAYS (LEAD SERVICE REPLACEMENT)	SQYD	100
80	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5–INCH BINDER 1.5–INCH SURFACE (LEAD SERVICE REPLACEMENT)	SQYD	100
81	HOT–MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 5–INCH (LEAD SERVICE REPLACEMENT)	SQYD	100
82	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6–INCH (LEAD SERVICE REPLACEMENT)	SQYD	50
83	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	FOOT	50
84	PCC SIDEWALK REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	SQFT	300
	PART C – SEWER IMPROVEMENTS		
85	EXCAVATION AND REPLACEMENT REPAIR NO. 1	LSUM	1
86	EXCAVATION AND POINT REPAIR –ADDITIONAL PIPE IN PAVEMENT, 15–INCH	FOOT	5

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	
	REVISED – ⚠ ADDENDUM #1 11/7/2024
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
VIRGINIA PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2853-0125

GENERAL NOTES AND SUMMARY OF QUANTITIES

SCALE: AS NOTED | PROJECT NO: 2325880.00

DESIGNED – LRJ
DRAWN – LRJ
CHECKED – MJK
DATE – 10/17/2024

TOTAL SHEETS: 22 | SHEET NO.: G003

P:\JOLIET\2325880–2025 WATER MAIN\CADD\VIRGINIA PHASE 1\01_CIVIL 3D\01_SHTS–PLANS\2325880–VIRGINIA_P1–COVER_SHEETS.DWG Gen Notes
Plotted: 11/7/2024 8:22 AM By: JSLAGER
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FOR CONTINUATION SEE SHEET C004

FOR CONTINUATION SEE SHEET C007

WENBERG STREET

BENTON STREET

MAPLE STREET

SEE SHEET C004
FOR DESCRIPTION OF WATER MAIN WORK

61 L.F. OF 8" RJT WATER MAIN,
(1) 8" TEE,
(1) 8" VALVE IN 4' VAULT

233 L.F. OF 8" WATER MAIN

28 L.F. OF 8" RJT WATER MAIN,
5 L.F. OF 8" PIPE INSULATION,
(2) 45° BENDS

SEE SHEET C007
FOR DESCRIPTION OF WATER MAIN WORK

17 L.F. OF 6" RJT DI WATER MAIN,
(1) 8" X 6" TEE,
(1) FIRE HYDRANT

46 L.F. OF 8" WATER MAIN

63 L.F. OF 8" RJT WATER MAIN,
(1) 8" VALVE IN 4' VAULT,
(2) 45° BENDS

32 L.F. OF 8" RJT WATER MAIN,
(2) 8" 45° BENDS,
(1) 8" SLEEVE,
(1) 8" NON-PRESSURE CONNECTION

ABANDON EXISTING VALVE VAULT

46 L.F. OF 6" RJT WATER MAIN,
(1) 8" X 6" TEE,
(1) 6" VALVE IN 4' VAULT,
(2) 22.5° BENDS,
(1) 6" SLEEVE,
(1) 6" NON-PRESSURE CONNECTION

16 L.F. OF 6" RJT DI WATER MAIN,
(1) 8" X 6" TEE,
(1) FIRE HYDRANT

WATER SERVICE LINE (TYP.)

ABANDON EXISTING 6" WATER MAIN

WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP (TYP.)

ABANDON EXISTING VALVE VAULT

ABANDON EXISTING FIRE HYDRANT

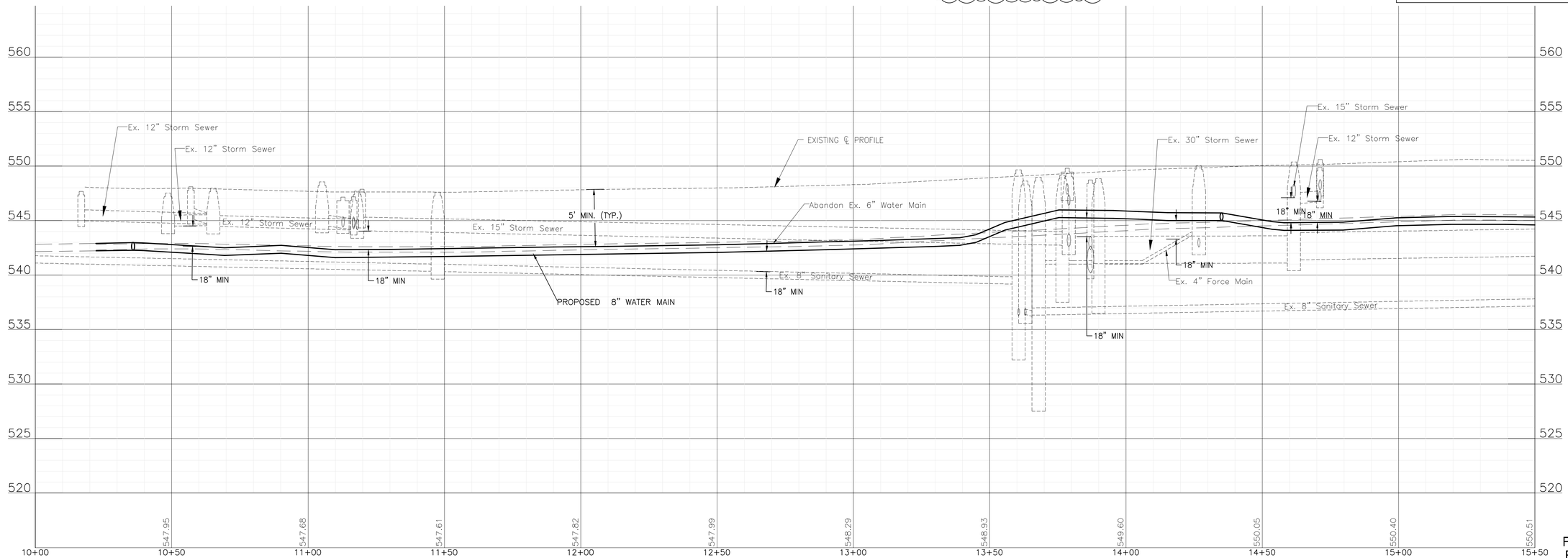
24 L.F. OF 6" RJT WATER MAIN,
(1) 8" X 6" TEE,
(1) 6" 45° BEND,
(1) 6" SLEEVE,
(1) 6" VALVE IN 4' VAULT,
(1) 6" NON-PRESSURE CONNECTION

89 L.F. OF 8" WATER MAIN
89 L.F. OF 8" PIPE INSULATION

MATCH LINE STA. 15+50 SEE SHEET C002

NOTE:
WATER SERVICES: (3) WATER SERVICE CONNECTIONS ARE ANTICIPATED ON THIS STREET. FINAL NUMBER AND LOCATION TO BE DETERMINED IN THE FIELD BY THE ENGINEER.

NOTE:
WHERE NEW WATER MAIN CROSSES WITH EXISTING STORM SEWERS, STORM SEWER PIPE ON THIS SHEET IN THE PROJECT AREA HAS BEEN PREVIOUSLY INSTALLED AS RCP WITH RUBBER GASKET SEALS IN COMPLIANCE WITH ASTM C361 OR ASTM C443, WHICH IS ACCEPTABLE ACCORDING TO THE DRINKING WATER PERMITS FAQ ON THE IEPA WEBSITE.



FINAL DESIGN FOR BIDDING

CONSULTANTS	REVISED – ⚠ ADDENDUM #1 11/7/2024
	REVISED –
	REVISED –
	REVISED –

BAXTER & WOODMAN consulting engineers

CITY OF JOLIET, ILLINOIS
VIRGINIA PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO. 2853-0125

MAPLE STREET STA 10+00 TO STA 15+50 PLAN & PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5'

PROJECT NO: 2325880.00

DESIGNED – LRJ	
DRAWN – LRJ	TOTAL SHEETS: 22
CHECKED – MJK	SHEET NO.: C001
DATE – 10/17/2024	

P:\JOLIET\2325880--2025 WATER MAIN\CADD\VIRGINIA PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\2325880--VIRGINIA_PH1-DESIGN_SHEETS.DWG 10+00.00
Plotted: 11/7/2024 8:18 AM By JSLAGER
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BID FORM

ONE ORIGINAL BID SHALL BE SUBMITTED

To: City of Joliet
Mayor and City Council
150 W. Jefferson Street
Joliet, IL 60432
(hereinafter called Owner)

From: _____
Company

_____
Address

_____
City State Zip Code

(___) _____ _____
Telephone E-MAIL

(hereinafter called Bidder)

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to furnish all labor, materials, tools, and services required for the construction of the Virginia Phase 1 Water Main Improvements for the City of Joliet, Will County, Illinois (Engineers' Job No. 2325880.00), all in accordance with the Bidding Documents prepared by Baxter & Woodman, Inc., Consulting Engineers.

2. Bidder accepts all of the terms and conditions of the Advertisement for Bids and Bidder Instructions, including without limitation those dealing with the disposition of Bid Security. This Bid will remain open for 120 days after the date of Bid opening or for such longer period of time that Bidder may agree to in writing upon request of Owner. Bidder will sign and submit the Agreement with the Bonds and other documents required by the Bidding Documents within 10 days after the date of Owner's Notice of Award.

3. In submitting this Bid, Bidder represents, as set forth in the Agreement, that:

   a. Bidder has examined copies of all the Bidding Documents.

   b. Bidder is familiar with the nature and extent of the Bidding Documents, Work, site, locality, and all local conditions and legal and regulatory requirements that in any

manner may affect cost, progress, performance, or furnishing of the Work, and has made such independent investigations as Bidder deems necessary.

c. Bidder has obtained and carefully studied (or assumes responsibility for having done so) all additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface and Underground Facilities) at or contiguous to the Site which may affect cost, progress, or performance of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, including applying the specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding Documents to be employed by Bidder, and safety precautions and programs incident thereto.

d. Bidder does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price(s) bid and within the times and in accordance with the other terms and conditions of the Bidding Documents.

e. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

f. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports and drawings identified in the Bidding Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bidding Documents.

g. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and the written resolution thereof by Engineer is acceptable to Bidder.

h. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the Work for which this Bid is submitted.

i. This Bid is genuine and not made in the interest or on behalf of any undisclosed person, firm or corporation, and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm, or a corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.

j. Bidder is not barred from contracting with the Owner as a result of a violation 720 ILCS 5/33 et seq.

k. Bidder agrees that no less than the prevailing rate of wages under the Davis-Bacon Wage Act (40 USC 276a through 276a-5) as determined by the U.S. Department of

Labor shall be paid to all laborers, workmen and mechanics performing work under this contract.

l. Bidder agrees to cooperate with all Davis-Bacon Wage Act compliance activities including employee interviews by Owner.

m. Bidder complies with the provisions of the Employment of Illinois Workers on Public Works Act (30 ILCS 570/) as they may apply to this Project.

n. Bidder will comply with the requirements of Sections 22.51(f)(2)(B) and 22.51a(d)(2)(B) of the Illinois Environmental Protection Act ([415 ILCS5/22.51(f)(2)(B)] and [415 ILCS5/22.51a(d)(2)(B)]) for the disposal of uncontaminated soils including uncontaminated soil mixed with other clean construction or demolition debris (CCDD) materials and has included any costs associated with compliance in the Bid.

4. Bidder submits the following Schedule of Unit Prices for the Work to be performed in accordance with the Bidding Documents and agrees that items of work not specifically mentioned in the Schedule which are necessary and required to complete the Work intended shall be done incidental to and as part of the items of work for which a unit price is given, and understands that no additional payment will be made for such incidental work.

Bidder agrees that the Owner may select any one or more Parts of this Bid, and if awarded the Contract for such Part or Parts of this Bid, the Bidder agrees to perform and complete the work at the Contract Unit Prices submitted herein.

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
PART A - WATER MAIN IMPROVEMENTS					
1	TRAFFIC CONTROL AND PROTECTION	1	LSUM	Lump Sum	$
2	GRANULAR TRENCH BACKFILL	700	CUYD	$	$
3	WATER MAIN (OPEN CUT), 6-INCH (DI)	165	FOOT	$	$
4	WATER MAIN (OPEN CUT), 6-INCH	112	FOOT	$	$
5	WATER MAIN (OPEN CUT), 8-INCH (DI)	152	FOOT	$	$
6	WATER MAIN (OPEN CUT), 8-INCH	4,796	FOOT	$	$

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
7	MISCELLANEOUS FITTINGS	6,500	POUND	$	$
8	CONNECT TO WATER MAIN (NON-PRESSURE), 6-INCH	5	EACH	$	$
9	CONNECT TO WATER MAIN (NON-PRESSURE), 8-INCH	2	EACH	$	$
10	GATE VALVE, 6-INCH	5	EACH	$	$
11	GATE VALVE, 8-INCH	12	EACH	$	$
12	VALVE VAULT, 4-FOOT DIAMETER	17	EACH	$	$
13	VALVE VAULT (ADDITIONAL DEPTH), 4-FOOT DIAMETER	2	VFT	$	$
14	VALVE VAULT (ADDITIONAL DEPTH), 5-FOOT DIAMETER	3	VFT	$	$
15	FIRE HYDRANT	17	EACH	$	$
16	FIRE HYDRANT BARREL EXTENSION	2	VFT	$	$
17	LINE STOP, 6-INCH	1	EACH	$	$
18	LINE STOP, 8-INCH	1	EACH	$	$
19	SANITARY SEWER REMOVAL AND REPLACEMENT, 10-INCH	50	FOOT	$	$
20	STORM SEWER REMOVAL AND REPLACEMENT, 10-INCH	206	FOOT	$	$
21	STORM SEWER STRUCTURE REMOVAL AND REPLACEMENT	2	EACH	$	$
22	ABANDONMENT OF EXISTING WATER MAINS AND APPURTENANCES	1	LSUM	Lump Sum	$
23	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1-INCH	38	EACH	$	$
24	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5-INCH	1	EACH	$	$

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
25	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 2-INCH	1	EACH	$	$
26	WATER SERVICE LINE TYPE K - OPEN CUT, 1-INCH	244	FOOT	$	$
27	WATER SERVICE LINE TYPE K - OPEN CUT, 1.5-INCH	75	FOOT	$	$
28	WATER SERVICE LINE TYPE K - OPEN CUT, 2-INCH	75	FOOT	$	$
29	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1-INCH	962	FOOT	$	$
30	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1.5-INCH	75	FOOT	$	$
31	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 2-INCH	75	FOOT	$	$
32	WATER SERVICE LINE TYPE L - 1-INCH	200	FOOT	$	$
33	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT OR CRAWL SPACE	2	EACH	$	$
34	WATER METER RELOCATION	2	EACH	$	$
35	WATER SERVICE CASING PIPE	30	FOOT	$	$
36	PROJECT MANAGEMENT	6	HOUR	$	$
37	UTILITY LOCATION - PRIVATE PROPERTY	3	EACH	$	$
38	LANDSCAPING PROJECT MANAGEMENT	4	HOUR	$	$
39	LANDSCAPING RESTORATION ALLOWANCE	4	EACH	$ 450.00	$1,800.00
40	SHRUB AND BRUSH DISPOSAL	6	EACH	$	$
41	FENCE TO BE REMOVED AND RE-ERECTED	25	FOOT	$	$
42	CLEARING	1	LSUM	Lump Sum	$

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
43	REMOVE AND REPLACE DRAIN TILES, 6-INCH THROUGH 12-INCH	130	FOOT	$	$
44	ADJUSTING SANITARY SEWER SERVICE LINE	2	EACH	$	$
45	EXPLORATORY EXCAVATION	14	EACH	$	$
46	INLET PROTECTION FILTER	38	EACH	$	$
47	RESTORATION OF LAWNS AND PARKWAYS	1,000	SQYD	$	$
48	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5-INCH BINDER 1.5-INCH SURFACE	2,100	SQYD	$	$
49	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 5-INCH BINDER 2-INCH SURFACE	1,000	SQYD	$	$
50	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 5-INCH	100	SQYD	$	$
51	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH	300	SQYD	$	$
52	GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT	100	SQYD	$	$
53	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	1,350	FOOT	$	$
54	PCC SIDEWALK REMOVAL AND REPLACEMENT	2,000	SQFT	$	$
55	DETECTABLE WARNINGS	10	SQFT	$	$
56	PAVEMENT MARKING - LINE, 24-INCH (THERMOPLASTIC)	20	FOOT	$	$
57	PAVEMENT MARKING - LINE, 6-INCH (THERMOPLASTIC)	60	FOOT	$	$
58	REMOVAL AND REPLACEMENT OF SIGNS	2	EACH	$	$
59	TREE ROOT PRUNING	1	EACH	$	$

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
60	TREE TRIMMING	1	LSUM	Lump Sum	$
61	DUST CONTROL	33	DAY	$	$
62	ROCK EXCAVATION	100	CUYD	$	$
63	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	13	CUYD	$	$
64	SOIL TESTS FOR CONTAMINANTS	1	EACH	$	$
65	CONTAMINATED WASTE DISPOSAL	13	CUYD	$	$
SUBTOTAL PART A - WATER MAIN IMPROVEMENTS:				**$**	
PART B - LEAD SERVICE LINE IMPROVEMENTS					
66	PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	12	HOUR	$	$
67	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 3/4-INCH	25	FOOT	$	$
68	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1-INCH	50	FOOT	$	$
69	WATER SERVICE CASING PIPE (LEAD SERVICE REPLACEMENT), 2-INCH	40	FOOT	$	$
70	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT OR CRAWL SPACE (LEAD SERVICE REPLACEMENT)	2	EACH	$	$
71	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB (LEAD SERVICE REPLACEMENT)	2	EACH	$	$
72	UTILITY LOCATION - PRIVATE PROPERTY (LEAD SERVICE REPLACEMENT)	4	EACH	$	$
73	WATER METER RELOCATION (LEAD SERVICE REPLACEMENT)	2	EACH	$	$

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
74	WATER METER REPLACEMENT (LEAD SERVICE REPLACEMENT)	2	EACH	$	$
75	LANDSCAPING PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	8	HOUR	$	$
76	LANDSCAPING RESTORATION ALLOWANCE (LEAD SERVICE REPLACEMENT)	4	EACH	$ 450.00	$1,800.00
77	SHRUB AND BRUSH DISPOSAL (LEAD SERVICE REPLACEMENT)	8	EACH	$	$
78	FENCE TO BE REMOVED AND RE-ERECTED (LEAD SERVICE REPLACEMENT)	20	FOOT	$	$
79	RESTORATION OF LAWNS AND PARKWAYS (LEAD SERVICE REPLACEMENT)	100	SQYD	$	$
80	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5-INCH BINDER 1.5-INCH SURFACE (LEAD SERVICE REPLACEMENT)	100	SQYD	$	$
81	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 5-INCH (LEAD SERVICE REPLACEMENT)	100	SQYD	$	$
82	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH (LEAD SERVICE REPLACEMENT)	50	SQYD	$	$
83	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	50	FOOT	$	$
84	PCC SIDEWALK REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	300	SQFT	$	$
SUBTOTAL PART B - LEAD SERVICE LINE IMPROVEMENTS:				**$**	

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
PART C - SEWER IMPROVEMENTS					
85	EXCAVATION AND REPLACEMENT REPAIR NO. 1	1	LSUM	Lump Sum	$
86	EXCAVATION AND POINT REPAIR – ADDITIONAL PIPE IN PAVEMENT, 15-INCH	5	FOOT	$	$
SUBTOTAL PART C - SEWER IMPROVEMENTS:				**$**	
TOTAL AMOUNT OF BID (PARTS A, B, AND C):				**$**	

5. Bidder agrees the Work shall be completed based on the interim milestones specified in Section 01 31 13.16. Bidder agrees the Work will be substantially completed within 50 calendar days after the Contract Time commences to run as provided in paragraph 2.03 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 1.11 of the Supplementary Conditions within 80 calendar days after the Contract Time commences to run. The estimated Notice to Proceed date is March 15, 2025.

    a. Bidder accepts the provisions of the Supplementary Conditions as to liquidated damages in the event of failure to complete the Work on time.

6. Bidder submits the required Bid Security in the form of (Certified Check or Bid Bond) in the amount of _____ or _____ Percent of the Bid Amount.

7. Bidder will be obtaining Performance and Payment Bonds through the following local agent or broker:

    Name: _____

    Address: _____

    Telephone: _____ email: _____

8. Bidder submits all items listed in Section 00 43 93.41 – Bid Submittal Checklist.

9. Terms used in this Bid which are defined in the Standard General Conditions of the Construction Contract included as part of the Contract Documents have the meanings assigned to them in the General Conditions.

10. Bidder acknowledges receipt of the following Addenda:

Addendum Number	Date Received

11. Bidder certifies that all iron and steel products used in the project for the construction, alteration, maintenance, or repair of a public water system are produced in the United States in compliance with Section 608 of the Water Resources Reform and Development Act".

12. By submission of the Bid, Bidder certifies, and in the case of a Joint Bid each party thereto certifies as to his own organization, that in connection with the Bid:

    a. The prices in the Bid have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other Bidder or with any competitor.

    b. Unless otherwise required by law, the prices which have been quoted in the Bid have not knowingly been disclosed by the Bidder, prior to opening, directly, or indirectly to any other Bidder or to any competitor; and

    c. No attempt has been made or will be made by the Bidder to induce any other person or firm to submit or not to submit a Bid for the purpose of restricting competition.

13. The person signing this Bid certifies that: (Check applicable box.)

    ☐ He/She is the person in the Bidder's organization responsible within that organization for the decision as to the prices being bid and that he/she has not participated, and will not participate, in any action contrary to that above; or

    ☐ He/She is not the person in the Bidder's organization responsible within that organization for the decision as to the prices being bid but that he/she has been authorized to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to that above, and as their agent shall so certify; and shall also certify that he/she has not participated, and will not participate, in any action contrary to that above.

14. Bidder is currently certified as an MBE or WBE under EPA's DBE program?
Yes ☐ No ☐

15. Bidder certifies that proof of current prequalification (Capital Development board or IDOT) defined in Section 00 11 13 has been submitted to the City: (check applicable box.)

☐ Current proof of prequalification was emailed to lschuld@baxterwoodman.com prior to the bid opening.

☐ Current proof of prequalification is enclosed with the Bid.

Respectfully submitted, signed, and sealed this _____ day of _____, 20__.

_____
Bidder

(SEAL)

By _____

_____
Name - Title

ATTEST:

_____

_____
Name - Title

END OF BID FORM

00 43 93.41

BID SUBMITTAL CHECKLIST

BIDDER submits the following documents with this Bid:

a. Form 00 41 00.41 “BID FORM”.

b. Required Bid Security (Certified Check or Bid Bond).

c. City of Joliet Affidavits.

d. CERTIFICATE 00 62 03 ILLINOIS DRUG FREE WORKPLACE ACT.

e. CERTIFICATE 00 62 04 ILLINOIS CONTRACTOR CERTIFICATION.

f. CERTIFICATE 00 62 05 ILLINOIS COMPLIANCE WITH SAFETY REQUIREMENTS.

g. CERTIFICATE 00 62 06 ILLINOIS TAX DELINQUENCY/DEFAULT.

h. CERTIFICATE 00 62 07 SUBSTANCE ABUSE PREVENTION PROGRAM.

i. CERTIFICATE 00 62 08 EMPLOYMENT OF ILLINOIS WORKERS ON PUBLIC WORKS ACT.

j. CERTIFICATE 00 62 33.13 BIDDER CERTIFICATION REGARDING THE USE OF AMERICAN IRON AND STEEL PRODUCTS

k. CERTIFICATE 00 74 23.01 DBE FORM #1 (CONTRACTOR CERTIFICATION).

l. CERTIFICATE 00 74 23.02 DBE FORM #3 (SUBCONTRACTOR UTILIZATION).

m. CERTIFICATE 00 74 23.03 DBE FORM #4 (BIDDERS LIST).

n. CERTIFICATE 00 74 23.04 BIDDER CERTIFICATION IN COMPLIANCE WITH ARTICLE 33E-11 TO THE "CRIMINAL CODE OF 2012".

o. CERTIFICATE 00 74 23.05 USEPA CERTIFICATION OF NONSEGREGATED FACILITIES.

p. CERTIFICATE 00 74 23.07 USEPA CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS.

END OF BID SUBMITTAL CHECKLIST

PREVAILING WAGES

This contract shall be subject to the provisions of the Davis-Bacon Wage Act (40 USC 276a through 276a-5) as determined by the U.S. Department of Labor or the Illinois *Prevailing Wage Act* (820 ILCS 130/1 et seq.), whichever is greater.

For prevailing wage information, go to the City of Joliet website: https://www.joliet.gov/government/departments/finance/purchasing/prevailing-wage-information

For current prevailing wage rates, go to the State of Illinois website: https://labor.illinois.gov/laws-rules/conmed/current-prevailing-rates.html

If you cannot access or have difficulty retrieving the prevailing wage information, email purchasing@joliet.gov or call 815-724-3925 for assistance.

The Bidder is responsible for obtaining the most recent Davis-Bacon Act Wage Determination from the following website: https://sam.gov/

APPENDIX D

LPC 663

BAXTER & WOODMAN
Consulting Engineers

K&S ENGINEERS, INC.
9715 Kennedy Avenue • Highland, Indiana 46322
(219) 924-5231 • (773) 734-5900 • FAX (219) 924-5271
www.kandsengineers.com • info@kandsengineers.com

October 29, 2024

K&S File No. 13940

City of Joliet
150 West Jefferson Street
Joliet, IL 60432

Attn: Mr. Ryan Y. Liang, P.E.
rliang@joliet.gov
(815) 724-4220

REPORT OF CLEAN CONSTRUCTION DEMOLITION DEBRIS (CCDD)
2025 WATER MAIN PROGRAM
CITY OF JOLIET, ILLINOIS

Dear Mr. Liang:

This letter report presents the analytical results obtained from the sampling event on March 18, 2024 for the above referenced project at Wenberg Street, City of Joliet, Illinois. K&S Engineers, Inc. (K&S) mobilized to the above referenced site and collected one (1) environmental soil sample at location V-5. The sample was collected from a soil boring V-5. The sample was collected at strategic location using truck mounted drill rig at an approximate depth of 0 to 2 feet. Please find attached the sample location map in *Attachment A*. After the completion of sampling, the grabbed sample was containerized and transferred to Eurofins Test America Laboratories in Merrillville, Indiana. A chain of custody record accompanied the sample which was analyzed for pH, Volatile Organic Compounds (VOCs), Semi-Volatile Organic Compounds (SVOCs), Total metals and mercury as per requirements for Clean Construction Demolition Debris (CCDD). Please find Eurofins Test America Laboratories results in *Attachment C.*

The detected laboratory data for the sample is tabulated in *Attachment B* and accordingly compared with the standard values for Maximum Allowable Concentrations (MAC) of chemical constituents in uncontaminated soil used as fill material at regulated fill operations (35 III. Adm. Code 1100.Subpart F). All the values were below the MAC standards. Also, a Toxicity Characteristic Leaching Procedure (TCLP) in Barium and Cadmium was analyzed for compliance verification. The results were below the TACO Class I and Class II Soil Component of the Groundwater Ingestion Exposure Route objective (35 III. Adm. Code 742.Appendix B, Table A). Please find

Eurofins TestAmerica Laboratory Results in *Attachment C*. Based on the test results, we are issuing an uncontaminated soil certification LPC-663 form included in *Attachment D.*

We appreciate the opportunity to work with you on this project. If you have any questions concerning this report, or if you require any additional services, please do not hesitate to contact us.

Very truly yours,
K & S Engineers, Inc.

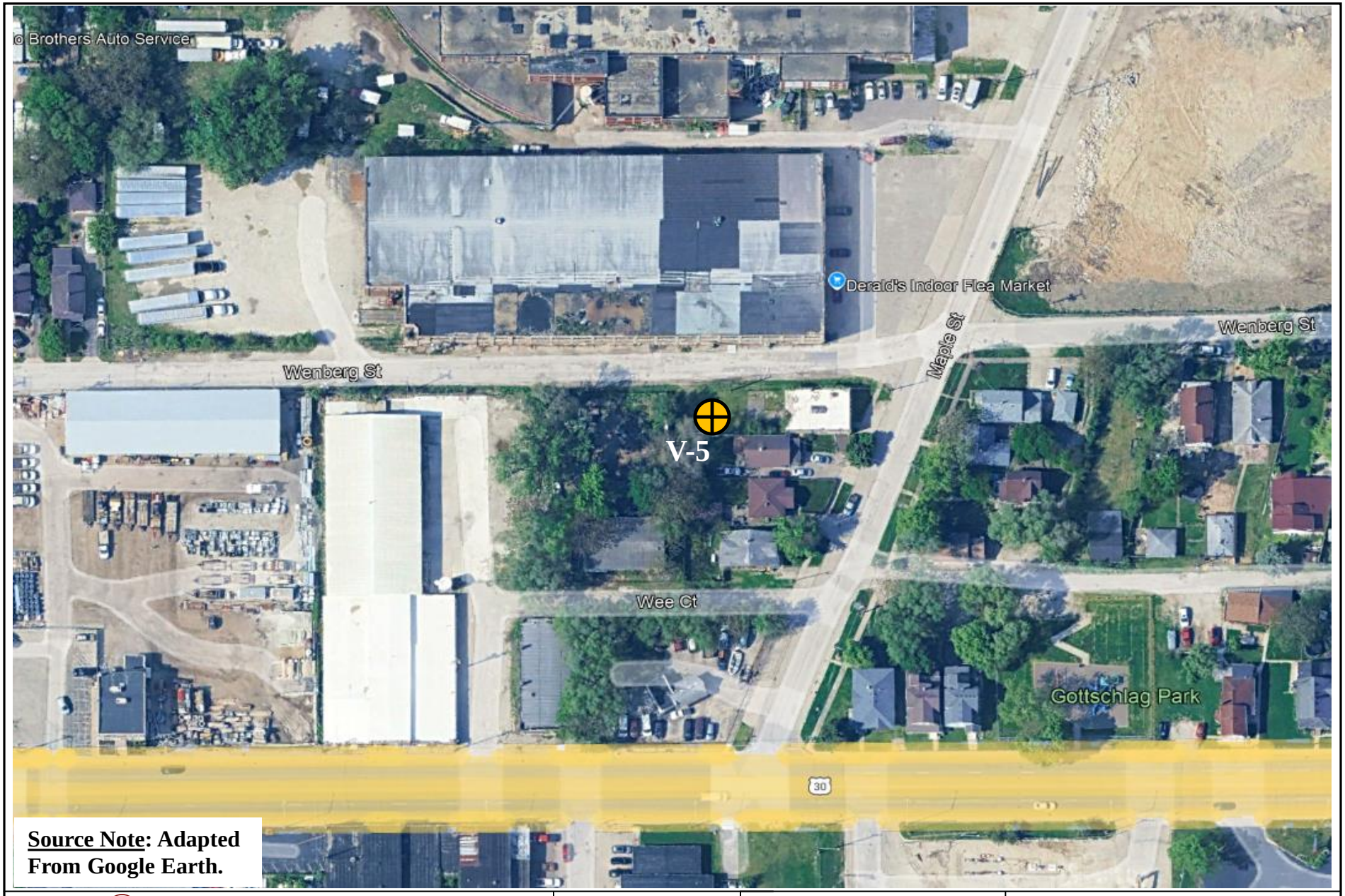
Rahman Babur
Staff Engineer

Dibakar Sundi, P.E.
Senior Project Engineer

Attachments: *Attachment A* – CCDD Sampling Location Plan
Attachment B – MAC Table and TCLP Table
Attachment C – Eurofins Test America Laboratory Results
Attachment D – LPC-663 Form

K&S

Attachment A



Source Note: Adapted From Google Earth.

K & S ENGINEERS, INC.
SOIL TESTING AND FOUNDATION CONSULTANTS

SAMPLING LOCATION PLAN
2025 WATER MAIN PROGRAM
JOLIET, IL

N
W E
S

Date: 10-29-2024

ATTACHMENT A

Scale: Not to Scale

File No. 13940

Legend: **B-#** ⊕ Approximate Boring Location

Attachment B

Maximum Allowable Concentrations (MAC) TABLE

V-5

			Project	City Of Joliet Water Main Program
			Sample ID	V-5
			Date/Time of Collection	03/18/2024 11:30am
			Maximum Allowable Concentration	
Description	CASNumber	Analyte	**MAC**	
pH		pH	**6.25 - 9.0**	7.9
SVOCs w/Low Level PAHs	83-32-9	Acenaphthene	**570**	0.026
SVOCs w/Low Level PAHs	120-12-7	Anthracene	**12000**	0.056
SVOCs w/Low Level PAHs	56-55-3	Benzo[a]anthracene - MSA excluding Chicago	**1.8**	0.22
SVOCs w/Low Level PAHs	56-55-3	Benzo[a]anthracene - non-MSA county	**0.9**	0.22
SVOCs w/Low Level PAHs	56-55-3	Benzo[a]anthracene - within Chicago	**1.1**	0.22
SVOCs w/Low Level PAHs	50-32-8	Benzo[a]pyrene - MSA excluding Chicago	**2.1**	0.22
SVOCs w/Low Level PAHs	50-32-8	Benzo[a]pyrene - non-MSA county	**0.98**	0.22
SVOCs w/Low Level PAHs	50-32-8	Benzo[a]pyrene - outside populated area	**0.98**	0.22
SVOCs w/Low Level PAHs	50-32-8	Benzo[a]pyrene - within Chicago	**1.3**	0.22
SVOCs w/Low Level PAHs	205-99-2	Benzo[b]fluoranthene - MSA excluding Chicago	**2.1**	0.34
SVOCs w/Low Level PAHs	205-99-2	Benzo[b]fluoranthene - non-MSA county	**0.9**	0.34
SVOCs w/Low Level PAHs	205-99-2	Benzo[b]fluoranthene - within Chicago	**1.5**	0.34
SVOCs w/Low Level PAHs	191-24-2	Benzo[g,h,i]perylene		0.21
SVOCs w/Low Level PAHs	207-08-9	Benzo[k]fluoranthene	**9**	0.13
SVOCs w/Low Level PAHs	85-68-7	Butyl benzyl phthalate	**930**	0.051
SVOCs w/Low Level PAHs	86-74-8	Carbazole	**0.6**	0.042
SVOCs w/Low Level PAHs	218-01-9	Chrysene	**88**	0.25
SVOCs w/Low Level PAHs	206-44-0	Fluoranthene	**3100**	0.53
SVOCs w/Low Level PAHs	193-39-5	Indeno[1,2,3cd]pyrene - MSA excluding Chicago	**1.6**	0.19
SVOCs w/Low Level PAHs	85-01-8	Phenanthrene		0.37
SVOCs w/Low Level PAHs	129-00-0	Pyrene	**2300**	0.40
Total Mercury by CVAA	7439-97-6	Mercury - elemental	**0.1**	0.030
Total Mercury by CVAA	7439-97-6	Mercury - ionic	**0.89**	0.030
Total Metals by ICP	7440-36-0	Antimony	**5**	0.59
Total Metals by ICP	7440-38-2	Arsenic - within a non-MSA county	**11.3**	3.5
Total Metals by ICP	7440-38-2	Arsenic - within an MSA county	**13**	3.5
Total Metals by ICP	7440-42-8	Boron	**40**	9.0
Total Metals by ICP	7440-41-7	Beryllium	**22**	0.38
Total Metals by ICP	7440-39-3	Barium	**1500**	52
Metals - TCLP	7440-39-3	Barium		0.31
Metals - TCLP	7440-43-9	Cadmium		0.0021
Total Metals by ICP	7440-43-9	Cadmium	**5.2**	0.38
Total Metals by ICP	7440-70-2	Calcium		170000
Total Metals by ICP	7440-47-3	Chromium	**21**	7.9
Total Metals by ICP	7440-48-4	Cobalt	**20**	3.4
Total Metals by ICP	7440-50-8	Copper	**2900**	19
Total Metals by ICP	7439-89-6	Iron - within a MSA county	**15900**	12000
Total Metals by ICP	7439-89-6	Iron - within a non-MSA county	**15000**	12000
Total Metals by ICP	7439-92-1	Lead	**107**	55
Total Metals by ICP	7439-95-4	Magnesium	**325000**	68000
Total Metals by ICP	7439-96-5	Manganese - within a MSA county	**636**	340
Total Metals by ICP	7440-02-0	Nickel	**100**	10
Total Metals by ICP	7440-09-7	Potassium		760
Total Metals by ICP	7440-22-4	Silver	**4.4**	0.010
Total Metals by ICP	7440-23-5	Sodium		130
Total Metals by ICP	7440-62-2	Vanadium	**550**	9.9
Total Metals by ICP	7440-66-6	Zinc	**5100**	100

All results are in mg/Kg or mg/L (ppm)

All values for the MAC table are taken from the August 27, 2012 version of the "Summary of Maximum Allowable Concentrations of Chemical Constituents in Uncontaminated Soil Used as Fill Material at Regulated Fill Operations (35 Ill. Adm. Code 1100.Subpart F)"
All other values are taken from Feb 23, 2007 version of the tables in Appendix B of Section 742 of TACO (Tiered Approach to Corrective Action)

K&S

Toxicity Characteristic Leaching Procedure (TCLP) Table

V-5

					Project	City Of Joliet Water Main Program
					Sample ID	V-5
					Date/Time of Collection	03/18/2024 11:30am
			Groundwater Remediation Objective			
Description	CAS Number	Analyte	Class I	Class II		
TCLP Metals by ICP	7440-39-3	Barium	2.0	2.0		0.31
TCLP Metals by ICP	7440-43-9	Cadmium	0.005	0.05		0.0021

All results are in mg/Kg or mg/L (ppm)

All values for the TCLP table are taken from the TACO Class I and Class II Soil Component of the Groundwater Ingestion Exposure Route objective (35 Ill. Adm. Code 742.Appendix B, Table A)

Attachment C

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Rahman Babur
K&S Engineers Inc.
9715 Kennedy Avenue
Highland, Indiana 46322

Generated 4/8/2024 9:06:24 AM

JOB DESCRIPTION

13940 Water Main Program CCDD (V-5)

JOB NUMBER

500-247711-1

Eurofins Chicago
2417 Bond Street
University Park IL 60484

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Chicago Project Manager.

Authorization



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4/8/2024 9:06:24 AM

Authorized for release by
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Job ID: 500-247711-1 Eurofins Chicago

Job Narrative
500-247711-1

Receipt
The sample was received on 3/19/2024 2:30 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4º 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 8270E: The continuing calibration verification (CCV) analyzed in batch 500-760145 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. 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 8270E: The continuing calibration verification (CCV) analyzed in 500-760145 was outside the method criteria for the following analyte(s): N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8270E: The following sample was diluted due to the nature of the sample matrix: V-5 (500-247711-1). Elevated reporting limits (RLs) are provided.

Method 8270E: The continuing calibration verification (CCV) associated with batch 500-759946 recovered above the upper control limit for Carbofuran. The samples associated with this CCV were non-detects for the affected analytes; 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
Method 6010D: The linear range check standard (LRC) standard for AD batch 760340 recovered low for Pb. The high standard read back was within control. Sample results were below the high standard and have been qualified and reported.

(LRC 500-760340/22)

Method 6010D: The initial low level calibration verification (ICVL) result for batch 760340 was above the upper control limit. The affected analytes are: Se. Sample results were below the reporting limit and have been reported as qualified data.

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&S Engineers Inc.
Job ID: 500-247711-1
Project/Site: 13940 Water Main Program CCDD (V-5)

Client Sample ID: V-5
Lab Sample ID: 500-247711-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	0.026	J	0.079	0.016	mg/Kg	2	☼	8270E	Total/NA
Anthracene	0.056	J	0.079	0.016	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]anthracene	0.22		0.079	0.017	mg/Kg	2	☼	8270E	Total/NA
Benzo[a]pyrene	0.22		0.079	0.077	mg/Kg	2	☼	8270E	Total/NA
Benzo[b]fluoranthene	0.34		0.079	0.076	mg/Kg	2	☼	8270E	Total/NA
Benzo[g,h,i]perylene	0.21		0.079	0.017	mg/Kg	2	☼	8270E	Total/NA
Benzo[k]fluoranthene	0.13		0.079	0.030	mg/Kg	2	☼	8270E	Total/NA
Bis(2-ethylhexyl) phthalate	5.9		0.40	0.31	mg/Kg	2	☼	8270E	Total/NA
Butyl benzyl phthalate	0.051	J	0.40	0.040	mg/Kg	2	☼	8270E	Total/NA
Carbazole	0.042	J	0.40	0.031	mg/Kg	2	☼	8270E	Total/NA
Chrysene	0.25		0.079	0.021	mg/Kg	2	☼	8270E	Total/NA
Fluoranthene	0.53		0.079	0.019	mg/Kg	2	☼	8270E	Total/NA
Indeno[1,2,3-cd]pyrene	0.19		0.079	0.078	mg/Kg	2	☼	8270E	Total/NA
Phenanthrene	0.37		0.079	0.017	mg/Kg	2	☼	8270E	Total/NA
Pyrene	0.40		0.079	0.022	mg/Kg	2	☼	8270E	Total/NA
Antimony	0.59	J B	1.1	0.22	mg/Kg	1	☼	6010D	Total/NA
Arsenic	3.5		0.57	0.19	mg/Kg	1	☼	6010D	Total/NA
Barium	52		5.7	0.65	mg/Kg	10	☼	6010D	Total/NA
Beryllium	0.38		0.23	0.053	mg/Kg	1	☼	6010D	Total/NA
Boron	9.0		2.8	0.26	mg/Kg	1	☼	6010D	Total/NA
Cadmium	0.38		0.11	0.020	mg/Kg	1	☼	6010D	Total/NA
Calcium	170000	B	110	19	mg/Kg	10	☼	6010D	Total/NA
Chromium	7.9		0.57	0.28	mg/Kg	1	☼	6010D	Total/NA
Cobalt	3.4		0.28	0.074	mg/Kg	1	☼	6010D	Total/NA
Copper	19		0.57	0.16	mg/Kg	1	☼	6010D	Total/NA
Iron	12000		110	59	mg/Kg	10	☼	6010D	Total/NA
Lead	55	^5-	0.28	0.13	mg/Kg	1	☼	6010D	Total/NA
Magnesium	68000		57	28	mg/Kg	10	☼	6010D	Total/NA
Manganese	340		0.57	0.082	mg/Kg	1	☼	6010D	Total/NA
Nickel	10		0.57	0.16	mg/Kg	1	☼	6010D	Total/NA
Potassium	760		28	10	mg/Kg	1	☼	6010D	Total/NA
Sodium	130		57	8.4	mg/Kg	1	☼	6010D	Total/NA
Vanadium	9.9		0.28	0.067	mg/Kg	1	☼	6010D	Total/NA
Zinc	100		1.1	0.50	mg/Kg	1	☼	6010D	Total/NA
Barium	0.31	J	0.50	0.050	mg/L	1		6010D	TCLP
Cadmium	0.0021	J	0.0050	0.0020	mg/L	1		6010D	TCLP
Silver	0.010	J	0.025	0.010	mg/L	1		6010D	TCLP
Mercury	0.030		0.019	0.0099	mg/Kg	1	☼	7471B	Total/NA
pH	7.9		0.2	0.2	SU	1		9045D	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: K&S Engineers Inc.
Job ID: 500-247711-1
Project/Site: 13940 Water Main Program CCDD (V-5)

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CHI
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CHI
6010D	Metals (ICP)	SW846	EET CHI
7470A	TCLP Mercury	SW846	EET CHI
7471B	Mercury (CVAA)	SW846	EET CHI
9045D	pH	SW846	EET CHI
Moisture	Percent Moisture	EPA	EET CHI
1311	TCLP Extraction	SW846	EET CHI
3010A	Preparation, Total Metals	SW846	EET CHI
3050B	Preparation, Metals	SW846	EET CHI
3546	Microwave Extraction	SW846	EET CHI
5035	Closed System Purge and Trap	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CHI
7471B	Preparation, Mercury	SW846	EET CHI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

Sample Summary

Client: K&S Engineers Inc.
Job ID: 500-247711-1
Project/Site: 13940 Water Main Program CCDD (V-5)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-247711-1	V-5	Solid	03/18/24 11:30	03/19/24 14:30

Client Sample ID: V-5 **Lab Sample ID: 500-247711-1**
Date Collected: 03/18/24 11:30 **Matrix: Solid**
Date Received: 03/19/24 14:30 **Percent Solids: 82.3**

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0088		0.020	0.0088	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Bromoform	<0.00059		0.0020	0.00059	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Chloroform	<0.00070		0.0020	0.00070	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Dibromochloromethane	<0.00066		0.0020	0.00066	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
1,2-Dibromoethane	<0.00077		0.0020	0.00077	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
1,3-Dichloropropene, Total	<0.00071		0.0020	0.00071	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
m&p-Xylene	<0.00064		0.0040	0.00064	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
n-Butyl alcohol	<0.064		0.13	0.064	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
o-Xylene	<0.00065		0.0020	0.00065	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Styrene	<0.00061		0.0020	0.00061	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Tetrachloroethene	<0.00069		0.0020	0.00069	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
1,1,1-Trichloroethane	<0.00068		0.0020	0.00068	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Vinyl acetate	<0.0018		0.0050	0.0018	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1
Xylenes, Total	<0.00065		0.0040	0.00065	mg/Kg	☼	03/19/24 17:51	03/20/24 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*75 - 131*	*03/19/24 17:51*	*03/20/24 15:26*	*1*
Dibromofluoromethane	*105*		*75 - 126*	*03/19/24 17:51*	*03/20/24 15:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 134*	*03/19/24 17:51*	*03/20/24 15:26*	*1*
Toluene-d8 (Surr)	*115*		*75 - 124*	*03/19/24 17:51*	*03/20/24 15:26*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**0.026**	**J**	0.079	0.016	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Acenaphthylene	<0.014		0.079	0.014	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Aldicarb	<0.40		0.80	0.40	mg/Kg	☼	03/24/24 21:40	03/26/24 20:10	1
Anthracene	**0.056**	**J**	0.079	0.016	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Benzo[a]anthracene	**0.22**		0.079	0.017	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Benzo[a]pyrene	**0.22**		0.079	0.077	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2

Client: K&S Engineers Inc.
Job ID: 500-247711-1
Project/Site: 13940 Water Main Program CCDD (V-5)

Client Sample ID: V-5
Lab Sample ID: 500-247711-1
Date Collected: 03/18/24 11:30
Matrix: Solid
Date Received: 03/19/24 14:30
Percent Solids: 82.3

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	**0.34**		0.079	0.076	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Benzo[g,h,i]perylene	**0.21**		0.079	0.017	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Benzoic acid	<0.49		4.0	0.49	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Benzo[k]fluoranthene	**0.13**		0.079	0.030	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Bis(2-chloroethyl)ether	<0.037		0.40	0.037	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Bis(2-ethylhexyl) phthalate	**5.9**		0.40	0.31	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Butyl benzyl phthalate	**0.051**	**J**	0.40	0.040	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Carbazole	**0.042**	**J**	0.40	0.031	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Carbofuran	<0.20		0.80	0.20	mg/Kg	☼	03/24/24 21:40	03/26/24 20:10	1
4-Chloroaniline	<0.84		1.6	0.84	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
2-Chlorophenol	<0.026		0.40	0.026	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Chrysene	**0.25**		0.079	0.021	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Dibenz(a,h)anthracene	<0.079		0.079	0.079	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
1,2-Dichlorobenzene	<0.032		0.40	0.032	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
1,4-Dichlorobenzene	<0.038		0.40	0.038	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
3,3'-Dichlorobenzidine	<0.065		0.40	0.065	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
2,4-Dichlorophenol	<0.028		0.79	0.028	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Diethyl phthalate	<0.037		0.40	0.037	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
2,4-Dimethylphenol	<0.18		0.79	0.18	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Di-n-butyl phthalate	<0.025		0.40	0.025	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
2,4-Dinitrophenol	<0.46		1.6	0.46	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
2,4-Dinitrotoluene	<0.045		0.40	0.045	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
2,6-Dinitrotoluene	<0.027		0.40	0.027	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Di-n-octyl phthalate	<0.56		0.79	0.56	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Fluoranthene	**0.53**		0.079	0.019	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Fluorene	<0.024		0.079	0.024	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Hexachlorobenzene	<0.015		0.16	0.015	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Hexachlorobutadiene	<0.045		0.40	0.045	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Hexachlorocyclopentadiene	<0.85		1.6	0.85	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Hexachloroethane	<0.040		0.40	0.040	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Indeno[1,2,3-cd]pyrene	**0.19**		0.079	0.078	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Isophorone	<0.041		0.40	0.041	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
2-Methylphenol	<0.042		0.40	0.042	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Naphthalene	<0.014		0.079	0.014	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Nitrobenzene	<0.025		0.079	0.025	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
4-Nitrophenol	<0.30		1.6	0.30	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
N-Nitrosodi-n-propylamine	<0.016		0.16	0.016	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
N-Nitrosodiphenylamine	<0.047		0.40	0.047	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Pentachlorophenol	<0.20		1.6	0.20	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Phenanthrene	**0.37**		0.079	0.017	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Phenol	<0.035		0.40	0.035	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Pyrene	**0.40**		0.079	0.022	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
Pyridine	<0.52		1.6	0.52	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
1,2,4-Trichlorobenzene	<0.057		0.40	0.057	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
2,4,5-Trichlorophenol	<0.030		0.79	0.030	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2
2,4,6-Trichlorophenol	<0.027		0.79	0.027	mg/Kg	☼	03/24/24 21:40	03/27/24 14:49	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*66*		*43 - 145*	*03/24/24 21:40*	*03/26/24 20:10*	*1*
2-Fluorobiphenyl	*66*		*43 - 145*	*03/24/24 21:40*	*03/27/24 14:49*	*2*

Client Sample ID: V-5 — Lab Sample ID: 500-247711-1

Date Collected: 03/18/24 11:30 — **Matrix: Solid**
Date Received: 03/19/24 14:30 — **Percent Solids: 82.3**

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*69*		*31 - 166*	*03/24/24 21:40*	*03/26/24 20:10*	*1*
2-Fluorophenol	*62*		*31 - 166*	*03/24/24 21:40*	*03/27/24 14:49*	*2*
Nitrobenzene-d5	*68*		*37 - 147*	*03/24/24 21:40*	*03/26/24 20:10*	*1*
Nitrobenzene-d5	*62*		*37 - 147*	*03/24/24 21:40*	*03/27/24 14:49*	*2*
Phenol-d5	*76*		*30 - 153*	*03/24/24 21:40*	*03/26/24 20:10*	*1*
Phenol-d5	*68*		*30 - 153*	*03/24/24 21:40*	*03/27/24 14:49*	*2*
Terphenyl-d14	*63*		*42 - 157*	*03/24/24 21:40*	*03/26/24 20:10*	*1*
Terphenyl-d14	*65*		*42 - 157*	*03/24/24 21:40*	*03/27/24 14:49*	*2*
2,4,6-Tribromophenol	*71*		*31 - 143*	*03/24/24 21:40*	*03/26/24 20:10*	*1*
2,4,6-Tribromophenol	*72*		*31 - 143*	*03/24/24 21:40*	*03/27/24 14:49*	*2*

Method: SW846 6010D - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.59**	**J B**	1.1	0.22	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Arsenic	**3.5**		0.57	0.19	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Barium	**52**		5.7	0.65	mg/Kg	☼	03/22/24 09:11	03/28/24 13:35	10
Beryllium	**0.38**		0.23	0.053	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Boron	**9.0**		2.8	0.26	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Cadmium	**0.38**		0.11	0.020	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Calcium	**170000**	**B**	110	19	mg/Kg	☼	03/22/24 09:11	03/28/24 13:35	10
Chromium	**7.9**		0.57	0.28	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Cobalt	**3.4**		0.28	0.074	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Copper	**19**		0.57	0.16	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Iron	**12000**		110	59	mg/Kg	☼	03/22/24 09:11	03/28/24 13:35	10
Lead	**55**	**^5-**	0.28	0.13	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Magnesium	**68000**		57	28	mg/Kg	☼	03/22/24 09:11	03/28/24 13:35	10
Manganese	**340**		0.57	0.082	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Nickel	**10**		0.57	0.16	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Potassium	**760**		28	10	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Selenium	<0.33	^1+	0.57	0.33	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Silver	<0.073		0.28	0.073	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Sodium	**130**		57	8.4	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Thallium	<0.28		0.57	0.28	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Vanadium	**9.9**		0.28	0.067	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1
Zinc	**100**		1.1	0.50	mg/Kg	☼	03/22/24 09:11	03/27/24 14:57	1

Method: SW846 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/25/24 08:40	03/26/24 22:59	1
Barium	**0.31**	**J**	0.50	0.050	mg/L		03/25/24 08:40	03/26/24 22:59	1
Cadmium	**0.0021**	**J**	0.0050	0.0020	mg/L		03/25/24 08:40	03/26/24 22:59	1
Chromium	<0.010		0.025	0.010	mg/L		03/25/24 08:40	03/26/24 22:59	1
Lead	<0.0075		0.050	0.0075	mg/L		03/25/24 08:40	03/26/24 22:59	1
Selenium	<0.020		0.050	0.020	mg/L		03/25/24 08:40	03/26/24 22:59	1
Silver	**0.010**	**J**	0.025	0.010	mg/L		03/25/24 08:40	03/26/24 22:59	1

Method: SW846 7470A - TCLP Mercury - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/29/24 11:50	04/01/24 10:27	1

Client Sample Results

Client: K&S Engineers Inc. Job ID: 500-247711-1
Project/Site: 13940 Water Main Program CCDD (V-5)

Client Sample ID: V-5 Lab Sample ID: 500-247711-1

Date Collected: 03/18/24 11:30 **Matrix: Solid**
Date Received: 03/19/24 14:30 **Percent Solids: 82.3**

Method: SW846 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.019	0.0099	mg/Kg	☼	03/28/24 15:45	03/29/24 09:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SW846 9045D)	7.9		0.2	0.2	SU			03/25/24 15:06	1
Percent Moisture (EPA Moisture)	17.7		0.1	0.1	%			03/25/24 16:53	1
Percent Solids (EPA Moisture)	82.3		0.1	0.1	%			03/25/24 16:53	1

Definitions/Glossary

Client: K&S Engineers Inc. Job ID: 500-247711-1
Project/Site: 13940 Water Main Program CCDD (V-5)

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.

Metals

Qualifier	Qualifier Description
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
^5-	Linear Range Check (LRC) is outside acceptance limits, low biased.
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.
¤	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

GC/MS VOA

Prep Batch: 759034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	Total/NA	Solid	5035	

Analysis Batch: 759040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	Total/NA	Solid	8260D	759034
MB 500-759040/7	Method Blank	Total/NA	Solid	8260D	
LCS 500-759040/4	Lab Control Sample	Total/NA	Solid	8260D	
LCSD 500-759040/5	Lab Control Sample Dup	Total/NA	Solid	8260D	

GC/MS Semi VOA

Prep Batch: 759672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	Total/NA	Solid	3546	
MB 500-759672/1-A	Method Blank	Total/NA	Solid	3546	
LCS 500-759672/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 759946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	Total/NA	Solid	8270E	759672
MB 500-759672/1-A	Method Blank	Total/NA	Solid	8270E	759672

Analysis Batch: 760145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	Total/NA	Solid	8270E	759672
MB 500-759672/1-A	Method Blank	Total/NA	Solid	8270E	759672
LCS 500-759672/2-A	Lab Control Sample	Total/NA	Solid	8270E	759672

Metals

Prep Batch: 759535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	Total/NA	Solid	3050B	
MB 500-759535/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-759535/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Leach Batch: 759567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	TCLP	Solid	1311	
LB 500-759567/1-B	Method Blank	TCLP	Solid	1311	
LB 500-759567/1-E	Method Blank	TCLP	Solid	1311	

Prep Batch: 759785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	TCLP	Solid	3010A	759567
LB 500-759567/1-B	Method Blank	TCLP	Solid	3010A	759567
LCS 500-759785/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 760154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	TCLP	Solid	6010D	759785
LB 500-759567/1-B	Method Blank	TCLP	Solid	6010D	759785

Metals (Continued)

Analysis Batch: 760154 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-759785/2-A	Lab Control Sample	Total/NA	Solid	6010D	759785

Analysis Batch: 760340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	Total/NA	Solid	6010D	759535
MB 500-759535/1-A	Method Blank	Total/NA	Solid	6010D	759535
LCS 500-759535/2-A	Lab Control Sample	Total/NA	Solid	6010D	759535

Prep Batch: 760395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	Total/NA	Solid	7471B	
MB 500-760395/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-760395/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 760459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	Total/NA	Solid	6010D	759535

Prep Batch: 760626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	TCLP	Solid	7470A	759567
LB 500-759567/1-E	Method Blank	TCLP	Solid	7470A	759567
MB 500-760626/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-760626/14-A	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 760632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	Total/NA	Solid	7471B	760395
MB 500-760395/12-A	Method Blank	Total/NA	Solid	7471B	760395
LCS 500-760395/13-A	Lab Control Sample	Total/NA	Solid	7471B	760395

Analysis Batch: 760921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	TCLP	Solid	7470A	760626
LB 500-759567/1-E	Method Blank	TCLP	Solid	7470A	760626
MB 500-760626/12-A	Method Blank	Total/NA	Solid	7470A	760626
LCS 500-760626/14-A	Lab Control Sample	Total/NA	Solid	7470A	760626

General Chemistry

Analysis Batch: 759864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	Total/NA	Solid	Moisture	
500-247711-1 DU	V-5	Total/NA	Solid	Moisture	

Analysis Batch: 759941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-247711-1	V-5	Total/NA	Solid	9045D	
LCS 500-759941/6	Lab Control Sample	Total/NA	Solid	9045D	
LCSD 500-759941/7	Lab Control Sample Dup	Total/NA	Solid	9045D	

Surrogate Summary

Client: K&S Engineers Inc.
Job ID: 500-247711-1
Project/Site: 13940 Water Main Program CCDD (V-5)

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB	DBFM	DCA	TOL				
Lab Sample ID	Client Sample ID	(75-131)	(75-126)	(70-134)	(75-124)				
500-247711-1	V-5	111	105	110	115				
LCS 500-759040/4	Lab Control Sample	106	101	101	115				
LCSD 500-759040/5	Lab Control Sample Dup	106	102	103	117				
MB 500-759040/7	Method Blank	110	102	108	114				

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		FBP	2FP	NBZ	PHL	TPHL	TBP		
Lab Sample ID	Client Sample ID	(43-145)	(31-166)	(37-147)	(30-153)	(42-157)	(31-143)		
500-247711-1	V-5	66	69	68	76	63	71		
500-247711-1	V-5	66	62	62	68	65	72		
LCS 500-759672/2-A	Lab Control Sample	83	84	83	88	78	85		
MB 500-759672/1-A	Method Blank	74	82	83	89	76	65		
MB 500-759672/1-A	Method Blank	79	80	80	83	77	76		

Surrogate Legend

FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14
TBP = 2,4,6-Tribromophenol

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 500-759040/7
Matrix: Solid
Analysis Batch: 759040

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<0.0087		0.020	0.0087	mg/Kg			03/20/24 10:33	1
Benzene	<0.00051		0.0020	0.00051	mg/Kg			03/20/24 10:33	1
Bromodichloromethane	<0.00041		0.0020	0.00041	mg/Kg			03/20/24 10:33	1
Bromoform	<0.00058		0.0020	0.00058	mg/Kg			03/20/24 10:33	1
Bromomethane	<0.0019		0.0050	0.0019	mg/Kg			03/20/24 10:33	1
2-Butanone (MEK)	<0.0022		0.0050	0.0022	mg/Kg			03/20/24 10:33	1
Carbon disulfide	<0.0010		0.0050	0.0010	mg/Kg			03/20/24 10:33	1
Carbon tetrachloride	<0.00058		0.0020	0.00058	mg/Kg			03/20/24 10:33	1
Chlorobenzene	<0.00074		0.0020	0.00074	mg/Kg			03/20/24 10:33	1
Chloroform	<0.00069		0.0020	0.00069	mg/Kg			03/20/24 10:33	1
cis-1,2-Dichloroethene	<0.00056		0.0020	0.00056	mg/Kg			03/20/24 10:33	1
Dibromochloromethane	<0.00065		0.0020	0.00065	mg/Kg			03/20/24 10:33	1
1,2-Dibromo-3-Chloropropane	<0.0020		0.0050	0.0020	mg/Kg			03/20/24 10:33	1
1,2-Dibromoethane	<0.00076		0.0020	0.00076	mg/Kg			03/20/24 10:33	1
1,1-Dichloroethane	<0.00069		0.0020	0.00069	mg/Kg			03/20/24 10:33	1
1,2-Dichloroethane	<0.0016		0.0050	0.0016	mg/Kg			03/20/24 10:33	1
1,1-Dichloroethene	<0.00069		0.0020	0.00069	mg/Kg			03/20/24 10:33	1
1,2-Dichloropropane	<0.00052		0.0020	0.00052	mg/Kg			03/20/24 10:33	1
1,3-Dichloropropene, Total	<0.00070		0.0020	0.00070	mg/Kg			03/20/24 10:33	1
Ethylbenzene	<0.00096		0.0020	0.00096	mg/Kg			03/20/24 10:33	1
Methylene Chloride	<0.0020		0.0050	0.0020	mg/Kg			03/20/24 10:33	1
Methyl tert-butyl ether	<0.00059		0.0020	0.00059	mg/Kg			03/20/24 10:33	1
m&p-Xylene	<0.00063		0.0040	0.00063	mg/Kg			03/20/24 10:33	1
n-Butyl alcohol	<0.063		0.13	0.063	mg/Kg			03/20/24 10:33	1
o-Xylene	<0.00064		0.0020	0.00064	mg/Kg			03/20/24 10:33	1
Styrene	<0.00060		0.0020	0.00060	mg/Kg			03/20/24 10:33	1
Tetrachloroethene	<0.00068		0.0020	0.00068	mg/Kg			03/20/24 10:33	1
Toluene	<0.00051		0.0020	0.00051	mg/Kg			03/20/24 10:33	1
trans-1,2-Dichloroethene	<0.00089		0.0020	0.00089	mg/Kg			03/20/24 10:33	1
1,1,1-Trichloroethane	<0.00067		0.0020	0.00067	mg/Kg			03/20/24 10:33	1
1,1,2-Trichloroethane	<0.00086		0.0020	0.00086	mg/Kg			03/20/24 10:33	1
Trichloroethene	<0.00068		0.0020	0.00068	mg/Kg			03/20/24 10:33	1
Vinyl acetate	<0.0017		0.0050	0.0017	mg/Kg			03/20/24 10:33	1
Vinyl chloride	<0.00089		0.0020	0.00089	mg/Kg			03/20/24 10:33	1
Xylenes, Total	<0.00064		0.0040	0.00064	mg/Kg			03/20/24 10:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*75 - 131*		*03/20/24 10:33*	*1*
Dibromofluoromethane	*102*		*75 - 126*		*03/20/24 10:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 134*		*03/20/24 10:33*	*1*
Toluene-d8 (Surr)	*114*		*75 - 124*		*03/20/24 10:33*	*1*

Lab Sample ID: LCS 500-759040/4
Matrix: Solid
Analysis Batch: 759040

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			0.0500	0.0341		mg/Kg		68	40 - 150		

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

Lab Sample ID: LCS 500-759040/4
Matrix: Solid
Analysis Batch: 759040

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	0.0452		mg/Kg		90	70 - 125
Bromodichloromethane	0.0500	0.0426		mg/Kg		85	67 - 129
Bromoform	0.0500	0.0476		mg/Kg		95	68 - 136
Bromomethane	0.0500	0.0440		mg/Kg		88	70 - 130
2-Butanone (MEK)	0.0500	0.0373		mg/Kg		75	47 - 138
Carbon disulfide	0.0500	0.0478		mg/Kg		96	70 - 129
Carbon tetrachloride	0.0500	0.0418		mg/Kg		84	75 - 125
Chlorobenzene	0.0500	0.0434		mg/Kg		87	50 - 150
Chloroform	0.0500	0.0475		mg/Kg		95	57 - 135
cis-1,2-Dichloroethene	0.0500	0.0439		mg/Kg		88	70 - 125
Dibromochloromethane	0.0500	0.0422		mg/Kg		84	69 - 125
1,2-Dibromo-3-Chloropropane	0.0500	0.0510		mg/Kg		102	60 - 136
1,2-Dibromoethane	0.0500	0.0460		mg/Kg		92	70 - 125
1,1-Dichloroethane	0.0500	0.0455		mg/Kg		91	70 - 125
1,2-Dichloroethane	0.0500	0.0430		mg/Kg		86	70 - 130
1,1-Dichloroethene	0.0500	0.0438		mg/Kg		88	70 - 120
1,2-Dichloropropane	0.0500	0.0445		mg/Kg		89	70 - 125
Ethylbenzene	0.0500	0.0458		mg/Kg		92	61 - 136
Methylene Chloride	0.0500	0.0438		mg/Kg		88	70 - 126
Methyl tert-butyl ether	0.0500	0.0517		mg/Kg		103	50 - 140
Styrene	0.0500	0.0483		mg/Kg		97	70 - 125
Tetrachloroethene	0.0500	0.0464		mg/Kg		93	70 - 124
Toluene	0.0500	0.0467		mg/Kg		93	70 - 125
trans-1,2-Dichloroethene	0.0500	0.0441		mg/Kg		88	70 - 125
1,1,1-Trichloroethane	0.0500	0.0452		mg/Kg		90	70 - 128
1,1,2-Trichloroethane	0.0500	0.0452		mg/Kg		90	70 - 125
Trichloroethene	0.0500	0.0408		mg/Kg		82	70 - 125
Vinyl acetate	0.100	0.0970		mg/Kg		97	40 - 153
Vinyl chloride	0.0500	0.0451		mg/Kg		90	70 - 125
Xylenes, Total	0.100	0.0980		mg/Kg		98	53 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*
Dibromofluoromethane	*101*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 134*
Toluene-d8 (Surr)	*115*		*75 - 124*

Lab Sample ID: LCSD 500-759040/5
Matrix: Solid
Analysis Batch: 759040

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	0.0500	0.0334		mg/Kg		67	40 - 150	2	30
Benzene	0.0500	0.0464		mg/Kg		93	70 - 125	3	30
Bromodichloromethane	0.0500	0.0428		mg/Kg		86	67 - 129	0	30
Bromoform	0.0500	0.0488		mg/Kg		98	68 - 136	2	30
Bromomethane	0.0500	0.0462		mg/Kg		92	70 - 130	5	30
2-Butanone (MEK)	0.0500	0.0370		mg/Kg		74	47 - 138	1	30

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

Lab Sample ID: LCSD 500-759040/5 **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 759040

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Carbon disulfide	0.0500	0.0499		mg/Kg		100	70 - 129	4	30
Carbon tetrachloride	0.0500	0.0444		mg/Kg		89	75 - 125	6	30
Chlorobenzene	0.0500	0.0454		mg/Kg		91	50 - 150	4	30
Chloroform	0.0500	0.0498		mg/Kg		100	57 - 135	5	30
cis-1,2-Dichloroethene	0.0500	0.0454		mg/Kg		91	70 - 125	3	30
Dibromochloromethane	0.0500	0.0420		mg/Kg		84	69 - 125	1	30
1,2-Dibromo-3-Chloropropane	0.0500	0.0535		mg/Kg		107	60 - 136	5	30
1,2-Dibromoethane	0.0500	0.0472		mg/Kg		94	70 - 125	2	30
1,1-Dichloroethane	0.0500	0.0480		mg/Kg		96	70 - 125	5	30
1,2-Dichloroethane	0.0500	0.0427		mg/Kg		85	70 - 130	1	30
1,1-Dichloroethene	0.0500	0.0462		mg/Kg		92	70 - 120	5	30
1,2-Dichloropropane	0.0500	0.0464		mg/Kg		93	70 - 125	4	30
Ethylbenzene	0.0500	0.0469		mg/Kg		94	61 - 136	2	30
Methylene Chloride	0.0500	0.0463		mg/Kg		93	70 - 126	6	30
Methyl tert-butyl ether	0.0500	0.0527		mg/Kg		105	50 - 140	2	30
Styrene	0.0500	0.0490		mg/Kg		98	70 - 125	2	30
Tetrachloroethene	0.0500	0.0478		mg/Kg		96	70 - 124	3	30
Toluene	0.0500	0.0477		mg/Kg		95	70 - 125	2	30
trans-1,2-Dichloroethene	0.0500	0.0464		mg/Kg		93	70 - 125	5	30
1,1,1-Trichloroethane	0.0500	0.0471		mg/Kg		94	70 - 128	4	30
1,1,2-Trichloroethane	0.0500	0.0458		mg/Kg		92	70 - 125	1	30
Trichloroethene	0.0500	0.0418		mg/Kg		84	70 - 125	2	30
Vinyl acetate	0.100	0.0984		mg/Kg		98	40 - 153	1	30
Vinyl chloride	0.0500	0.0473		mg/Kg		95	70 - 125	5	30
Xylenes, Total	0.100	0.0991		mg/Kg		99	53 - 147	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*75 - 131*
Dibromofluoromethane	*102*		*75 - 126*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 134*
Toluene-d8 (Surr)	*117*		*75 - 124*

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

Lab Sample ID: MB 500-759672/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 759946 **Prep Batch: 759672**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldicarb	<0.33		0.67	0.33	mg/Kg		03/24/24 21:40	03/26/24 15:35	1
Carbofuran	<0.17		0.67	0.17	mg/Kg		03/24/24 21:40	03/26/24 15:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*74*		*43 - 145*	*03/24/24 21:40*	*03/26/24 15:35*	*1*
2-Fluorophenol	*82*		*31 - 166*	*03/24/24 21:40*	*03/26/24 15:35*	*1*
Nitrobenzene-d5	*83*		*37 - 147*	*03/24/24 21:40*	*03/26/24 15:35*	*1*
Phenol-d5	*89*		*30 - 153*	*03/24/24 21:40*	*03/26/24 15:35*	*1*
Terphenyl-d14	*76*		*42 - 157*	*03/24/24 21:40*	*03/26/24 15:35*	*1*

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

Lab Sample ID: MB 500-759672/1-A
Matrix: Solid
Analysis Batch: 759946

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759672

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol	*65*		*31 - 143*	*03/24/24 21:40*	*03/26/24 15:35*	*1*

Lab Sample ID: MB 500-759672/1-A
Matrix: Solid
Analysis Batch: 760145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0068		0.033	0.0068	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Acenaphthylene	<0.0056		0.033	0.0056	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Anthracene	<0.0068		0.033	0.0068	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Benzo[a]anthracene	<0.0070		0.033	0.0070	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Benzo[a]pyrene	<0.032		0.033	0.032	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Benzo[b]fluoranthene	<0.032		0.033	0.032	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Benzo[g,h,i]perylene	<0.0072		0.033	0.0072	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Benzoic acid	<0.20		1.7	0.20	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Benzo[k]fluoranthene	<0.013		0.033	0.013	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Bis(2-chloroethyl)ether	<0.015		0.17	0.015	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Bis(2-ethylhexyl) phthalate	<0.13		0.17	0.13	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Butyl benzyl phthalate	<0.017		0.17	0.017	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Carbazole	<0.013		0.17	0.013	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
4-Chloroaniline	<0.35		0.67	0.35	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
2-Chlorophenol	<0.011		0.17	0.011	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Chrysene	<0.0088		0.033	0.0088	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Dibenz(a,h)anthracene	<0.033		0.033	0.033	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
1,2-Dichlorobenzene	<0.014		0.17	0.014	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
1,4-Dichlorobenzene	<0.016		0.17	0.016	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
3,3'-Dichlorobenzidine	<0.027		0.17	0.027	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
2,4-Dichlorophenol	<0.012		0.33	0.012	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Diethyl phthalate	<0.015		0.17	0.015	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
2,4-Dimethylphenol	<0.074		0.33	0.074	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Di-n-butyl phthalate	<0.011		0.17	0.011	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
2,4-Dinitrophenol	<0.19		0.67	0.19	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
2,4-Dinitrotoluene	<0.019		0.17	0.019	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
2,6-Dinitrotoluene	<0.011		0.17	0.011	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Di-n-octyl phthalate	<0.23		0.33	0.23	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Fluoranthene	<0.0077		0.033	0.0077	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Fluorene	<0.0098		0.033	0.0098	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Hexachlorobenzene	<0.0064		0.067	0.0064	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Hexachlorobutadiene	<0.019		0.17	0.019	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Hexachlorocyclopentadiene	<0.35		0.67	0.35	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Hexachloroethane	<0.017		0.17	0.017	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Indeno[1,2,3-cd]pyrene	<0.032		0.033	0.032	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Isophorone	<0.017		0.17	0.017	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
2-Methylphenol	<0.018		0.17	0.018	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Naphthalene	<0.0060		0.033	0.0060	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Nitrobenzene	<0.011		0.033	0.011	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
4-Nitrophenol	<0.12		0.67	0.12	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
N-Nitrosodi-n-propylamine	<0.0066		0.067	0.0066	mg/Kg		03/24/24 21:40	03/27/24 12:51	1

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

Lab Sample ID: MB 500-759672/1-A
Matrix: Solid
Analysis Batch: 760145

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759672

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	<0.020		0.17	0.020	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Pentachlorophenol	<0.083		0.67	0.083	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Phenanthrene	<0.0072		0.033	0.0072	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Phenol	<0.014		0.17	0.014	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Pyrene	<0.0091		0.033	0.0091	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
Pyridine	<0.22		0.67	0.22	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
1,2,4-Trichlorobenzene	<0.024		0.17	0.024	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
2,4,5-Trichlorophenol	<0.013		0.33	0.013	mg/Kg		03/24/24 21:40	03/27/24 12:51	1
2,4,6-Trichlorophenol	<0.011		0.33	0.011	mg/Kg		03/24/24 21:40	03/27/24 12:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*79*		*43 - 145*	*03/24/24 21:40*	*03/27/24 12:51*	*1*
2-Fluorophenol	*80*		*31 - 166*	*03/24/24 21:40*	*03/27/24 12:51*	*1*
Nitrobenzene-d5	*80*		*37 - 147*	*03/24/24 21:40*	*03/27/24 12:51*	*1*
Phenol-d5	*83*		*30 - 153*	*03/24/24 21:40*	*03/27/24 12:51*	*1*
Terphenyl-d14	*77*		*42 - 157*	*03/24/24 21:40*	*03/27/24 12:51*	*1*
2,4,6-Tribromophenol	*76*		*31 - 143*	*03/24/24 21:40*	*03/27/24 12:51*	*1*

Lab Sample ID: LCS 500-759672/2-A
Matrix: Solid
Analysis Batch: 760145

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 759672

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	3.33	2.78		mg/Kg		83	63 - 109
Acenaphthylene	3.33	2.81		mg/Kg		84	61 - 115
Anthracene	3.33	2.94		mg/Kg		88	68 - 120
Benzo[a]anthracene	3.33	2.84		mg/Kg		85	70 - 121
Benzo[a]pyrene	3.33	3.19		mg/Kg		96	73 - 132
Benzo[b]fluoranthene	3.33	3.15		mg/Kg		94	68 - 123
Benzo[g,h,i]perylene	3.33	3.17		mg/Kg		95	65 - 126
Benzoic acid	3.33	1.00	J	mg/Kg		30	10 - 135
Benzo[k]fluoranthene	3.33	3.04		mg/Kg		91	64 - 128
Bis(2-chloroethyl)ether	3.33	2.70		mg/Kg		81	49 - 99
Bis(2-ethylhexyl) phthalate	3.33	3.11		mg/Kg		93	70 - 139
Butyl benzyl phthalate	3.33	3.15		mg/Kg		94	65 - 140
Carbazole	3.33	2.89		mg/Kg		87	68 - 120
4-Chloroaniline	3.33	2.25		mg/Kg		67	22 - 110
2-Chlorophenol	3.33	2.77		mg/Kg		83	50 - 102
Chrysene	3.33	2.90		mg/Kg		87	70 - 123
Dibenz(a,h)anthracene	3.33	3.16		mg/Kg		95	66 - 125
1,2-Dichlorobenzene	3.33	2.69		mg/Kg		81	47 - 94
1,4-Dichlorobenzene	3.33	2.60		mg/Kg		78	46 - 92
3,3'-Dichlorobenzidine	3.33	2.72		mg/Kg		81	36 - 131
2,4-Dichlorophenol	3.33	2.78		mg/Kg		83	51 - 109
Diethyl phthalate	3.33	2.84		mg/Kg		85	66 - 115
2,4-Dimethylphenol	3.33	2.53		mg/Kg		76	48 - 93
Di-n-butyl phthalate	3.33	3.02		mg/Kg		91	69 - 125
2,4-Dinitrophenol	6.67	4.65		mg/Kg		70	10 - 130

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

Lab Sample ID: LCS 500-759672/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 760145 **Prep Batch: 759672**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	3.33	2.89		mg/Kg		87	65 - 120
2,6-Dinitrotoluene	3.33	2.89		mg/Kg		87	66 - 117
Di-n-octyl phthalate	3.33	3.05		mg/Kg		91	61 - 131
Fluoranthene	3.33	2.97		mg/Kg		89	66 - 123
Fluorene	3.33	2.83		mg/Kg		85	62 - 113
Hexachlorobenzene	3.33	2.99		mg/Kg		90	52 - 126
Hexachlorobutadiene	3.33	2.69		mg/Kg		81	42 - 103
Hexachlorocyclopentadiene	3.33	0.965		mg/Kg		29	10 - 100
Hexachloroethane	3.33	2.58		mg/Kg		77	45 - 95
Indeno[1,2,3-cd]pyrene	3.33	3.42		mg/Kg		102	66 - 131
Isophorone	3.33	2.73		mg/Kg		82	47 - 108
2-Methylphenol	3.33	2.76		mg/Kg		83	50 - 104
Naphthalene	3.33	2.71		mg/Kg		81	54 - 98
Nitrobenzene	3.33	2.80		mg/Kg		84	52 - 105
4-Nitrophenol	6.67	5.49		mg/Kg		82	45 - 126
N-Nitrosodi-n-propylamine	3.33	3.18		mg/Kg		95	48 - 110
N-Nitrosodiphenylamine	3.33	2.92		mg/Kg		88	67 - 112
Pentachlorophenol	6.67	4.30		mg/Kg		64	32 - 128
Phenanthrene	3.33	2.91		mg/Kg		87	65 - 115
Phenol	3.33	2.99		mg/Kg		90	52 - 110
Pyrene	3.33	3.11		mg/Kg		93	71 - 128
Pyridine	6.67	3.04		mg/Kg		46	35 - 80
1,2,4-Trichlorobenzene	3.33	2.68		mg/Kg		80	49 - 100
2,4,5-Trichlorophenol	3.33	2.72		mg/Kg		82	48 - 121
2,4,6-Trichlorophenol	3.33	2.70		mg/Kg		81	50 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*83*		*43 - 145*
2-Fluorophenol	*84*		*31 - 166*
Nitrobenzene-d5	*83*		*37 - 147*
Phenol-d5	*88*		*30 - 153*
Terphenyl-d14	*78*		*42 - 157*
2,4,6-Tribromophenol	*85*		*31 - 143*

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 500-759535/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 760340 **Prep Batch: 759535**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.554	J	2.0	0.39	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Arsenic	<0.34		1.0	0.34	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Barium	<0.11		1.0	0.11	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Beryllium	<0.093		0.40	0.093	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Boron	<0.47		5.0	0.47	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Cadmium	<0.036		0.20	0.036	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Calcium	3.66	J	20	3.4	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Chromium	<0.50		1.0	0.50	mg/Kg		03/22/24 09:11	03/27/24 14:25	1

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

Lab Sample ID: MB 500-759535/1-A
Matrix: Solid
Analysis Batch: 760340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 759535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	<0.13		0.50	0.13	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Copper	<0.28		1.0	0.28	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Iron	<10		20	10	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Lead	<0.23	^5-	0.50	0.23	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Magnesium	<5.0		10	5.0	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Manganese	<0.15		1.0	0.15	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Nickel	<0.29		1.0	0.29	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Potassium	<18		50	18	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Selenium	0.654	J ^1+	1.0	0.59	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Silver	<0.13		0.50	0.13	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Sodium	<15		100	15	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Thallium	<0.50		1.0	0.50	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Vanadium	<0.12		0.50	0.12	mg/Kg		03/22/24 09:11	03/27/24 14:25	1
Zinc	<0.88		2.0	0.88	mg/Kg		03/22/24 09:11	03/27/24 14:25	1

Lab Sample ID: LCS 500-759535/2-A
Matrix: Solid
Analysis Batch: 760340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 759535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	47.0		mg/Kg		94	80 - 120
Arsenic	10.0	9.44		mg/Kg		94	80 - 120
Barium	200	193		mg/Kg		97	80 - 120
Beryllium	5.00	4.70		mg/Kg		94	80 - 120
Boron	100	86.6		mg/Kg		87	80 - 120
Cadmium	5.00	4.50		mg/Kg		90	80 - 120
Calcium	1000	924		mg/Kg		92	80 - 120
Chromium	20.0	18.8		mg/Kg		94	80 - 120
Cobalt	50.0	49.5		mg/Kg		99	80 - 120
Copper	25.0	23.8		mg/Kg		95	80 - 120
Iron	100	104		mg/Kg		104	80 - 120
Lead	10.0	9.89	^5-	mg/Kg		99	80 - 120
Magnesium	1000	893		mg/Kg		89	80 - 120
Manganese	50.0	46.8		mg/Kg		94	80 - 120
Nickel	50.0	48.2		mg/Kg		96	80 - 120
Potassium	1000	935		mg/Kg		94	80 - 120
Selenium	10.0	9.43	^1+	mg/Kg		94	80 - 120
Silver	5.00	4.16		mg/Kg		83	80 - 120
Sodium	1000	952		mg/Kg		95	80 - 120
Thallium	10.0	9.63		mg/Kg		96	80 - 120
Vanadium	50.0	48.1		mg/Kg		96	80 - 120
Zinc	50.0	47.2		mg/Kg		94	80 - 120

Lab Sample ID: LCS 500-759785/2-A
Matrix: Solid
Analysis Batch: 760154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 759785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.100	0.0896		mg/L		90	80 - 120

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

Lab Sample ID: LCS 500-759785/2-A
Matrix: Solid
Analysis Batch: 760154

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 759785

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.500	0.458	J	mg/L		92	80 - 120
Cadmium	0.0500	0.0468		mg/L		94	80 - 120
Chromium	0.200	0.185		mg/L		93	80 - 120
Lead	0.100	0.0865		mg/L		86	80 - 120
Selenium	0.100	0.0903		mg/L		90	80 - 120
Silver	0.0500	0.0464		mg/L		93	80 - 120

Lab Sample ID: LB 500-759567/1-B
Matrix: Solid
Analysis Batch: 760154

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 759785

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		03/25/24 08:40	03/26/24 22:15	1
Barium	<0.050		0.50	0.050	mg/L		03/25/24 08:40	03/26/24 22:15	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		03/25/24 08:40	03/26/24 22:15	1
Chromium	<0.010		0.025	0.010	mg/L		03/25/24 08:40	03/26/24 22:15	1
Lead	<0.0075		0.050	0.0075	mg/L		03/25/24 08:40	03/26/24 22:15	1
Selenium	<0.020		0.050	0.020	mg/L		03/25/24 08:40	03/26/24 22:15	1
Silver	<0.010		0.025	0.010	mg/L		03/25/24 08:40	03/26/24 22:15	1

Method: 7470A - TCLP Mercury

Lab Sample ID: MB 500-760626/12-A
Matrix: Solid
Analysis Batch: 760921

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 760626

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/29/24 11:50	04/01/24 10:10	1

Lab Sample ID: LCS 500-760626/14-A
Matrix: Solid
Analysis Batch: 760921

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 760626

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00201	0.00193		mg/L		96	80 - 120

Lab Sample ID: LB 500-759567/1-E
Matrix: Solid
Analysis Batch: 760921

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 760626

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		03/29/24 11:50	04/01/24 10:25	1

QC Sample Results

Client: K&S Engineers Inc.
Project/Site: 13940 Water Main Program CCDD (V-5)

Job ID: 500-247711-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-760395/12-A
Matrix: Solid
Analysis Batch: 760632

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 760395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0088		0.017	0.0088	mg/Kg		03/28/24 15:45	03/29/24 08:44	1

Lab Sample ID: LCS 500-760395/13-A
Matrix: Solid
Analysis Batch: 760632

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 760395

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			0.167	0.164		mg/Kg		98	80 - 120		

Method: Moisture - Percent Moisture

Lab Sample ID: 500-247711-1 DU
Matrix: Solid
Analysis Batch: 759864

Client Sample ID: V-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	17.7			18.4		%				4	20
Percent Solids	82.3			81.6		%				0.8	20

Lab Chronicle

Client: K&S Engineers Inc.
Job ID: 500-247711-1
Project/Site: 13940 Water Main Program CCDD (V-5)

Client Sample ID: V-5
Lab Sample ID: 500-247711-1
Date Collected: 03/18/24 11:30
Matrix: Solid
Date Received: 03/19/24 14:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
TCLP	Leach	1311			759567		EET CHI	03/22/24 11:29 - 03/23/24 08:00 [1]
TCLP	Prep	3010A			759785	BDE	EET CHI	03/25/24 08:40 - 03/25/24 14:40 [1]
TCLP	Analysis	6010D		1	760154	SJ	EET CHI	03/26/24 22:59
TCLP	Leach	1311			759567		EET CHI	03/22/24 11:29 - 03/23/24 08:00 [1]
TCLP	Prep	7470A			760626	MJG	EET CHI	03/29/24 11:50 - 03/29/24 13:50 [1]
TCLP	Analysis	7470A		1	760921	MJG	EET CHI	04/01/24 10:27
Total/NA	Analysis	9045D		1	759941	SO	EET CHI	03/25/24 15:06
Total/NA	Analysis	Moisture		1	759864	MR	EET CHI	03/25/24 16:53

Client Sample ID: V-5
Lab Sample ID: 500-247711-1
Date Collected: 03/18/24 11:30
Matrix: Solid
Date Received: 03/19/24 14:30
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			759034	WRE	EET CHI	03/19/24 17:51
Total/NA	Analysis	8260D		1	759040	EA	EET CHI	03/20/24 15:26
Total/NA	Prep	3546			759672	NC	EET CHI	03/24/24 21:40
Total/NA	Analysis	8270E		1	759946	H7CM	EET CHI	03/26/24 20:10
Total/NA	Prep	3546			759672	NC	EET CHI	03/24/24 21:40
Total/NA	Analysis	8270E		2	760145	JSB	EET CHI	03/27/24 14:49
Total/NA	Prep	3050B			759535	BDE	EET CHI	03/22/24 09:11 - 03/22/24 15:11 [1]
Total/NA	Analysis	6010D		10	760459	SJ	EET CHI	03/28/24 13:35
Total/NA	Prep	3050B			759535	BDE	EET CHI	03/22/24 09:11 - 03/22/24 15:11 [1]
Total/NA	Analysis	6010D		1	760340	SJ	EET CHI	03/27/24 14:57
Total/NA	Prep	7471B			760395	ER	EET CHI	03/28/24 15:45
Total/NA	Analysis	7471B		1	760632	MJG	EET CHI	03/29/24 09:51

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:
EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: K&S Engineers Inc. Job ID: 500-247711-1
Project/Site: 13940 Water Main Program CCDD (V-5)

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2903	04-29-24
Georgia	State	N/A	04-29-24
Georgia (DW)	State	939	04-29-24
Hawaii	State	NA	04-29-24
Illinois	NELAP	IL00035	04-29-24
Indiana	State	C-IL-02	04-29-24
Iowa	State	082	05-01-24
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	04-29-24
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-24
Mississippi	State	NA	04-29-24
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24
Wyoming	State	8TMS-Q	04-29-24

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Rahman Babur	Lab PM: Mockler, Diana J	Carrier Tracking No(s):	COC No:
Client Contact: Rahman Babur	Phone: 219-427-2433	E-Mail: Diana Mockler@Eurofinset com		Page: Page 1 of 1
Company: K & S Engineers Inc				Job #: 500-247711
Address: 9715 Kennedy Ave	Due Date Requested:			
City: Highland	TAT Requested (days):			
State, Zip: IN, 46322				
Phone: 219-427-2433(Tel)	PO #: Advance Payment Required			
Email: rbabur@kandsengineers com	WO #:			
Project Name: 13940 Water Main Program CCDD	Project #:			
Site: City of Joliet, IL	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other

500-247711 COC

Sample Identification	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)	8260B - Total VOCs	6010B - Total Metals (7 elements), 7471B - Total Mercury	8270 - Total SVOCs	6010 - TCLP RCRA Metals, 7470 - Mercury	pH, Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:					N					
V-5	3/18/24	11 30	G	Solid			✓	✓	✓	✓	✓		Frozen 3-18-24 1 00pm

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ 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	Date/Time	Company	Received by	Date/Time	Company
1	Rahman Babur	3-18 24 2'30pm	K&S	Chris Emmons	3.19.24 0800	EETA
2	Chris Emmons	3.19.24 1300	EETA	[illegible]	3/19/24 1300	EETA
3	[illegible]	3/19/24 1430	EETA	[illegible]	03/19/24 1430	EETA

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No
Cooler Temperature(s) °C and Other Remarks: 0.9-1.4

Login Sample Receipt Checklist

Client: K&S Engineers Inc.

Job Number: 500-247711-1

Login Number: 247711
List Number: 1
Creator: Schmidt, Kara

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	1.4
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Attachment D

Illinois Environmental Protection Agency

Bureau of Land • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Uncontaminated Soil Certification by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation LPC-663

Revised in accordance with 35 Ill. Adm. Code 1100, as amended by PCB R2012-009 (eff. Aug. 27, 2012)

This certification form is to be used by professional engineers and professional geologists to certify, pursuant to 35 Ill. Adm. Code 1100.205(a)(1)(B), that soil (i) is uncontaminated soil and (ii) is within a pH range of 6.26 to 9.0. If you have questions about this form, please telephone the Bureau of Land Permit Section at 217/524-3300.

This form may be completed online, saved locally, printed and signed, and submitted to prospective clean construction or demolition debris (CCDD) fill operations or uncontaminated soil fill operations.

I. Source Location Information

(Describe the location of the source of the uncontaminated soil)

Project Name: 2025 Water Main Program Office Phone Number, if available: (219) 924-5231

Physical Site Location (address, incldluding number and street):
E Washington Street

City: Joliet State: IL Zip Code: 60433

County: Will Township: Joliet

Lat/Long of approximate center of site in decimal degrees (DD.ddddd) to five decimal places (e.g., 40.67890, -90.12345):

Latitude: 41.528922° Longitude: -88.061376°

(Decimal Degrees) (-Decimal Degrees)

Identify how the lat/long data were determined:

☐ GPS ☐ Map Interpolation ☐ Photo Interpolation ☐ Survey ☒ Other

Google Earth

IEPA Site Number(s), if assigned: BOL: BOW: BOA:

II. Owner/Operator Information for Source Site

Site Owner		Site Operator	
Name:	City Of Joliet	Name:	City Of Joliet
Street Address:	150 West Jefferson Street	Street Address:	150 West Jefferson Street
PO Box:		PO Box:	
City:	Joliet State: IL	City:	Joliet State: IL
Zip Code:	60433 Phone: (815) 724-4220	Zip Code:	60433 Phone: (815) 724-4220
Contact:	Ryan Y. Liang	Contact:	Ryan Y. Liang
Email, if available:	rliang@joliet.gov	Email, if available:	rliang@joliet.gov

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42). This form has been approved by the Forms Management Center.

Project Name: 2025 Water Main Program

Latitude: 41.528922° Longitude: - 88.061376°

Uncontaminated Site Certification

III. Basis for Certification and Attachments

For each item listed below, reference the attachments to this form that provide the required information.

a. A Description of the soil sample points and how they were determined to be sufficient in number and appropriately located 35 Ill. Adm. Code 1100.610(a)]:

One soil sample was collected at location V-5 as shown in Attachment A

b. Analytical soil testing results to show that soil chemical constituents comply with the maximum allowable concentrations established pursuant to 35 Ill. Adm. Code Part 1100, Subpart F and that the soil pH is within the range of 6.25 to 9.0,including the documentation of chain of custody control, a copy of the lab analysis; the accreditation status of the laboratory performing the analysis; and certification by an authorized agent of the laboratory that the analysis has been performed in accordance with the Agency's rules for the accreditation of environmental and the scope of the accreditation [35 Ill. Adm. Code 1100.201(g), 1100.205(a), 1100.610]:

The pH conducted revealed a value of 7.9. The CCDD analytical results were below the maximum allowable concentrations for all VOCs, SVOCs, and RCRA metals.

IV. Certification Statement, Signature and Seal of Licensed Professional Engineer or Licensed Professional Geologist

I, Dibakar Sundi (name of licensed professional engineer or geologist) certify under penalty of law that the information submitted, including but not limited to, all attachments and other information, is to the best of my knowledge and belief, true, accurate and complete. In accordance with the Environmental Protection Act [415 ILCS 5/22.51 or 22.51a] and 35 Ill. Adm. Code 1100.205(a), I certify that the soil from this site is uncontaminated soil. I also certify that the soil pH is within the range of 6.25 to 9.0. In addition, I certify that the soil has not been removed from the site as part of a cleanup or removal of contaminants. All necessary documentation is attached.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Company Name: K&S Engineers Inc.

Street Address: 9715 Kennedy Avenue

City: Highland State: IL Zip Code: 46322

Phone: (219) 924-5231

Dibakar Sundi

Printed Name:

10/29/2024

Licensed Professional Engineer or Licensed Professional Geologist Signature:

Date:

DIBAKAR SUNDI 062-038979 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

P.E. or L.P.G. Seal: