00 91 13

ADDENDUM NO. 2

DATE: November 9, 2023

FROM: Baxter & Woodman, Inc., Consulting Engineers

TO: Planholders of record for the Work titled:

City of Joliet, Illinois
Spring Creek Phase 1 Water Main Improvements
City of Joliet Contract No. 2767-0124

The Bidding Documents are amended as follows:

1. DRAWINGS

   A. Delete Sheet 3 in its entirety, and insert Sheet 3, revision dated November 9, 2023, in lieu thereof.

   B. Delete Sheet 4 in its entirety, and insert Sheet 4, revision dated November 9, 2023, in lieu thereof.

   C. Delete Sheet 34 in its entirety, and insert Sheet 34, revision dated November 9, 2023, in lieu thereof.

2. SPECIFICATIONS

   A. Section 00 11 13, ADVERTISEMENT FOR BIDS:

      Delete Section 00 11 13, ADVERTISEMENT FOR BIDS in its entirety and insert the attached ADVERTISEMENT FOR BIDS, revision dated November 9, 2023, in lieu thereof in order to revise the hyperlinks to the City of Joliet purchasing department web pages.

   B. Section 00 41 00.41, BID FORM:

      Delete Section 00 41 00.41, BID FORM in its entirety and insert the attached BID FORM, revision dated November 9, 2023, in lieu thereof in order to revise the Pay Item for “HOT-MIX ASPHALT SURFACE REMOVAL AND REPLACEMENT”.

   C. Section 01 22 29, MEASUREMENT AND PAYMENT:

      Delete Section 01 22 29, MEASUREMENT AND PAYMENT in its entirety and insert the attached MEASUREMENT AND PAYMENT, revision dated November 9, 2023, in lieu thereof in order to revise paragraphs 1.6, 1.42, and 1.89, and insert a new Pay Item after paragraph 1.43.

D. Section 01 32 53, DIGITAL UTILITY DATA COLLECTION:

Page 01 32 53-2, delete paragraph 2.1.D and replace with the following:

"D. A 2-hour training session will be provided at the start of construction and support for up to 4-hours per month."

Page 01 32 53-3, add the following between paragraphs 3.2.A.6 and 3.2.A.7 and renumber:

"7. Exposed utility crossings (gas, electric, communications, pipelines, etc.)"

E. Section 33 11 43, WATER DISTRIBUTION SYSTEM:

Page 33 11 43-11, after paragraph 3.5.A.1, add the following:

"2. The Owner will supply a data set with the locations of all known sanitary service laterals prior to the start of construction."

F. Appendix D – IEPA FORM LPC-663:

Delete Appendix D – IEPA FORM LPC-663 in its entirety and insert the attached IEPA FORM LPC-663, revision dated November 9, 2023, in lieu thereof.

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. 2

LEGEND

EXISTING		PROPOSED
	SANITARY SEWER OR SERVICE	
	STORM SEWER OR SERVICE	
W	WATER MAIN OR SERVICE	W
FM	FORCE MAIN	FM
	MANHOLE	
	CATCH BASIN	
	INLET	
	DRYWELL	
	CULVERT END SECTION	
WV	FIRE HYDRANT W/ AUX. VALVE, VALVE BOX, AND COVER	
	WATER VALVE W/ BOX AND COVER	
BB	WATER VALVE VAULT	BB
	WATER SERVICE BOX OR CURB STOP	
	WATER TEE FITTING	
	WATER SLEEVE FITTING	
	WATER 90° FITTING	
	WATER 45° FITTING	
	WATER REDUCER FITTING	
	CAP FITTING	
	WATER CROSS FITTING	
WM	WATER METER	
CO	CLEAN OUT	
SEPTIC VENT	SEPTIC VENT	
	TO BE ABANDONED AND/OR REMOVED	
	STRUCTURE TO BE ABANDONED	
G	GAS LINE	
GV	GAS VALVE W/ BOX AND COVER	
GVV	GAS VALVE VAULT	
GM	GAS METER	
GR	GAS RISER	
GAS	GAS SERVICE VALVE	
T	TELEPHONE CABLE	
TD	TELEPHONE DUCT	
TEL	TELEPHONE VAULT	
TR	TELEPHONE RISER	
CTV	CABLE TELEVISION (BURIED)	
CTV	CABLE T.V. RISER	
CTV	CABLE T.V. VAULT	
E	UNDERGROUND ELECTRICAL	

LEGEND

EXISTING		PROPOSED
EM	ELECTRIC METER	
ET	PAD MOUNTED TRANSFORMER	
EV	ELECTRIC VAULT	
JB	JUNCTION BOX	
	UTILITY POLE	
	UTILITY POLE w/ GUY ANCHOR	
	UTILITY POLE w/ LIGHT	
	LIGHT STANDARD	
MB	MAIL BOX	
	STREET SIGN	
	RAILROAD SIGNAL	
	TRAFFIC SIGNAL CONTROLLER	
	TRAFFIC SIGNAL POST W/ SIGNAL HEAD	
	HANDHOLE	
12"	DECIDUOUS TREE (W/ TRUNK INCH DIA.)	12" (HATCHED SHALL BE REMOVED)
16"	CONIFEROUS TREE (W/ HEIGHT)	16" (HATCHED SHALL BE REMOVED)
	DECIDUOUS BUSH	
	CONIFEROUS BUSH	
	DEFINING EDGE OF BRUSH OR FORESTED AREA	
—X—X—X—X—	FENCE	
	GUARD RAIL	
	CULVERT (CMP UNLESS NOTED)	
— DL — DL —	DITCH	
EXIST. R.O.W.	RIGHT OF WAY (ROW)	
ROW	RIGHT OF WAY MONUMENT	
P.L. P.L.	UNFENCED PROPERTY LINE	
IP	IRON PIPE (PROPERTY CORNER)	
	CENTER LINE	
625.35 / 625.9 +25	PROPOSED EL./EXISTING EL. and STATION	
#	SOIL BORING AND NUMBER	
B.M. CP	BENCH MARK	
	SURVEY CONTROL POINT	
OH	OVERHEAD ELECTRICAL	
	SUMMIT	
	RIPRAP	
	ROADWAY DITCH FLOW	
	SWALE	

BENCHMARKS (NAVD 88 DATUM)

B.M. # 51	RAILROAD SPIKE SET IN NORTH FACE POWER POLE WITH LIGHT AT SOUTH EAST CORNER OF GARNSEY AVENUE AND JACKSON EAST ELEV. = 549.305
B.M. # 52	RAILROAD SPIKE SET IN WEST FACE POWER POLE AT THE NORTH EAST CORNER OF GARNSEY AVENUE AND OHIO STREET ELEV. = 548.084
B.M. # 53	RAILROAD SPIKE SET IN NORTH WEST FACE POWER POLE WITH LIGHT AT THE SOUTH EAST CORNER OF GARNSEY AVENUE AND COLUMBIA STREET ELEV. = 548.556
B.M. # 54	RAILROAD SPIKE SET IN NORTH WEST FACE POWER POLE WITH LIGHT AT THE SOUTH EAST CORNER OF GARNSEY AVENUE AND WARD AVENUE ELEV. = 549.966
B.M. # 55	RAILROAD SPIKE SET IN EAST FACE POWER POLE WITH LIGHT AT THE SOUTH WEST CORNER OF LANDAU AVENUE AND WARD AVENUE ELEV. = 551.251
B.M. # 56	RAILROAD SPIKE SET IN WEST FACE POWER POLE WITH LIGHT AT THE AT THE ADDRESS OF 664 LANDAU AVENUE ELEV. = 550.719
B.M. # 57	RAILROAD SPIKE SET IN EAST FACE POWER POLE AT THE NORTH WEST CORNER OF LANDAU AVENUE AND OHIO STREET ELEV. = 549.205
B.M. # 58	RAILROAD SPIKE SET IN EAST FACE POWER POLE AT THE NORTH WEST CORNER OF LANDAU AVENUE AND OHIO STREET ELEV. = 549.205
B.M. # 59	NAIL SET ON NORTH FACE OF POWER POLE WITH LIGHT SET AT THE ADDRESS 652 JACKSON STREET ELEV. = 548.346
B.M. # 60	RAILROAD SPIKE SET IN SOUTHWEST FACE POWER POLE AT THE NORTH EAST CORNER OF JACKSON STREET AND LANDAU AVENUE ELEV. = 547.722
B.M. # 61	RAILROAD SPIKE SET IN EAST FACE POWER POLE WITH LIGHT AT THE ADDRESS 431 HENDERSON AVENUE ELEV. = 549.857
B.M. # 62	RAILROAD SPIKE SET IN EAST SIDE POWER POLE WITH LIGHT AT THE NORTH WEST CORNER OF HENDERSON AVENUE AND OHIO STEET ELEV. = 551.631
B.M. # 63	RAILROAD SPIKE SET IN EAST FACE POWER POLE WITH LIGHT AT THE ADDRESS 701 HENDERSON AVENUE ELEV. = 552.481
B.M. # 64	RAILROAD SPIKE SET IN EAST FACE POWER POLE WITH LIGHT AT THE SOUTH WEST CORNER OF HENDERSON AVENUE AND WARD AVENUE ELEV. = 553.66
B.M. # 65	RAILROAD SPIKE SET IN NORTH EAST FACE POWER POLE WITH LIGHT THE CONRER SOUTH WEST CORNER OF ABE STREET AND ELWOOD AVENUE ELEV. = 553.925
B.M. # 67	RAILROAD SPIKE SET IN WEST FACE POWER POLE WITH LIGHT AT THE SOUTH EAST CORNER OF ABE STREET AND COLUMBIA STREET ELEV. = 552.126
B.M. # 68	RAILROAD SPIKE SET IN WEST FACE POWER POLE AT THE ADDRESS 512 ABE STREET ELEV. = 551.431
B.M. # 69	RAILROAD SPIKE SET IN NORTH FACE POWER POLE LOCATED AT THE NORTH EAST INTERSECTION OF ABE STREET AND EAST JACKSON STREET ELEV. = 550.059

ABBREVIATIONS

CONC	PORTLAND CEMENT CONCRETE	C&G	CURB AND GUTTER	X=	EXTERNAL DISTANCE OF VERTICAL CURVE
CL	CENTERLINE	BC	BACK OF CURB	PC	POINT OF CURVATURE
BIT	BITUMINOUS PAVEMENT	EOP	EDGE OF PAVEMENT	PI	POINT OF INTERSECTION
GR	GRAVEL	PL	PROPERTY LINE	PT	POINT OF TANGENCY
CMP	CORRUGATED METAL PIPE	ROW	RIGHT OF WAY	POT	POINT ON TANGENT
FH	FIRE HYDRANT	FL	FLOW LINE	PCC	POINT OF COMPOUND CURVATURE
CI	CAST IRON	TF	TOP OF FRAME	PRC	POINT OF REVERSE CURVE
DI	DUCTILE IRON	TC	TOP OF CURB OR CONCRETE	VC	VERTICAL CURVE
F–F	FACE–TO–FACE	R	STRUCTURE TO BE RECONSTRUCTED	N&W	NAIL AND WASHER
E–E	EDGE–TO–EDGE	A	STRUCTURE TO BE ADJUSTED	TCE	TEMPORARY CONSTRUCTION EASEMENT
B–B	BACK–TO–BACK	▲	CENTRAL ANGLE	SS	STORM SEWER
BM	BENCH MARK	D=	DEGREE OF CURVE	SAN SEW	SANITARY SEWER
INV EL	INVERT ELEVATION	T=	TANGENT LENGTH	PROP	PROPOSED
CL EL	CENTERLINE ELEVATION	L=	CURVE LENGTH	STN STL	STAINLESS STEEL
P	POINT	R=	RADIUS OF CURVE	RJT	RESTRAINED JOINT
G	GUTTER	E=	EXTERNAL DISTANCE	HDD	HORIZONTAL DIRECTIONALLY DRILLED
C	CURB	SE=	SUPERELEVATION (FT. PER FT. OF WIDTH)	LF	LINEAR FEET

HIGHWAY STANDARDS

442201–03	CLASS C AND D PATCHES
701001–02	OFF–RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006–05	OFF–RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 m) FROM PAVEMENT EDGE
701011–04	OFF–RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701502–09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601–09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701–10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801–06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
704001–08	TEMPORARY CONCRETE BARRIER
782006–01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT ONE DETAILS

1 TC–07	DETECTOR LOOP INSTALLATION
TC–10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC–13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC–14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC–21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC–22	ARTERIAL ROAD INFORMATION SIGN

FINAL DESIGN FOR BIDDING

P:\JOLIET\221587–2024 WATER MAIN SURV\CAD\SPRING CREEK PHASE 1\01_CIVIL 3D\01_SHTS–PLANS\221587–SPRING CREEK PHASE 1_COVER_GEN_DETS.DWG LEGEND BENCHMARKS ABBREVIATIONS
Plotted: 11/8/2023 12:35 PM By: ALOMELI
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BAXTER & WOODMAN consulting engineers

CONSULTANTS	
	REVISED – 1 ADDENDUM #2 11/9/2023
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
SPRING CREEK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2767–0124

LEGEND, BENCHMARKS AND ABBREVIATIONS

SCALE:	AS NOTED	PROJECT NO:	221587.40

DESIGNED – RMM	
DRAWN – AAM/JJS	
CHECKED – MJK	
DATE – 10/12/2023	

TOTAL SHEETS	SHEET NO.
56	3

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.

- N GARNSEY AVENUE, LANDAU AVENUE, ABE STREET, OHIO STREET, COLUMBIA STREET, ELWOOD AVENUE, AND WARD AVENUE SHALL HAVE 2.5 INCHES OF BINDER AND 1.5 INCHES OF SURFACE COURSE.
- HENDERSON AVENUE SHALL HAVE 4 INCHES OF BINDER AND 2 INCHES OF SURFACE COURSE.
- US 6 / E JACKSON STREET SHALL HAVE 10 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	PRECONSTRUCTION VIDEO RECORDING	LSUM	1
2	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1
3	GRANULAR TRENCH BACKFILL	CUYD	8,300
4	TRENCH BACKFILL (SPECIAL)	CUYD	1,500
5	WATER MAIN (OPEN CUT), 4–INCH	FOOT	15
6	WATER MAIN (OPEN CUT), 6–INCH	FOOT	1,218
7	WATER MAIN (OPEN CUT), 6–INCH DI	FOOT	346
8	WATER MAIN (OPEN CUT), 8–INCH	FOOT	8,488
9	WATER MAIN (OPEN CUT), 8–INCH DI	FOOT	443
10	WATER MAIN (OPEN CUT), 12–INCH DI	FOOT	791
11	WATER MAIN (OPEN CUT), 16–INCH DI	FOOT	3,194
12	WATER MAIN (IN JACKED CASING), 8–INCH IN 36–INCH CASING	FOOT	142
13	WATER MAIN (IN JACKED CASING), 16–INCH IN 36–INCH CASING	FOOT	66
14	CASING PIPE (OPEN CUT), 16–INCH	FOOT	90
15	CASING PIPE (TUNNELING UNDER SEWER), 16–INCH	FOOT	133
16	CASING PIPE (TUNNELING UNDER SEWER), 30–INCH	FOOT	45
17	MISCELLANEOUS FITTINGS	POUND	17,000
18	CONNECT TO WATER MAIN (NON–PRESSURE), 4–INCH	EACH	1
19	CONNECT TO WATER MAIN (NON–PRESSURE), 6–INCH	EACH	3
20	CONNECT TO WATER MAIN (NON–PRESSURE), 8–INCH	EACH	6
21	GATE VALVE, 4–INCH	EACH	1
22	GATE VALVE, 6–INCH	EACH	4
23	GATE VALVE, 8–INCH	EACH	29
24	GATE VALVE, 12–INCH	EACH	3
25	BUTTERFLY VALVE, 16–INCH	EACH	13
26	VALVE BOX	EACH	4
27	VALVE VAULT, 4–FOOT DIAMETER	EACH	30
28	VALVE VAULT, 5–FOOT DIAMETER	EACH	16
29	VALVE VAULT (ADDITIONAL DEPTH), 4–FOOT DIAMETER	VFT	4
30	VALVE VAULT (ADDITIONAL DEPTH), 5–FOOT DIAMETER	VFT	1
31	FIRE HYDRANT	EACH	37
32	FIRE HYDRANT BARREL EXTENSION	VFT	7
33	LINE STOP, 6–INCH	EACH	1
34	LINE STOP, 8–INCH	EACH	1
35	SANITARY SEWER REMOVAL AND REPLACEMENT, 12–INCH	FOOT	50
36	STORM SEWER REMOVAL AND REPLACEMENT, 10–INCH	FOOT	70
37	STORM SEWER REMOVAL AND REPLACEMENT, 12–INCH	FOOT	51
38	REMOVE AND REPLACE STORM SEWER STRUCTURE, TYPE A INLET, 2–FOOT DIAMETER	EACH	14
39	FILLING OF EXISTING PIPE FOR RETIREMENT	CUYD	40
40	RETIREMENT OF EXISTING WATER MAINS AND APPURTENANCES	LSUM	1
41	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1–INCH	EACH	344
42	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5–INCH	EACH	2
43	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 2–INCH	EACH	2
44	WATER SERVICE LINE TYPE K – OPEN CUT, 1–INCH	FOOT	1,840
45	WATER SERVICE LINE TYPE K – OPEN CUT, 1.5–INCH	FOOT	20
46	WATER SERVICE LINE TYPE K – OPEN CUT, 2–INCH	FOOT	20
47	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1–INCH	FOOT	6,150
48	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1.5–INCH	FOOT	60
49	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 2–INCH	FOOT	60
50	WATER SERVICE CASING PIPE	FOOT	280
51	PROJECT MANAGEMENT	HOUR	30
52	UTILITY LOCATION – PRIVATE PROPERTY	EACH	10
53	LANDSCAPING PROJECT MANAGEMENT	HOUR	20
54	LANDSCAPING RESTORATION ALLOWANCE	EACH	10
55	SHRUB AND BRUSH DISPOSAL	EACH	20
56	FENCE TO BE REMOVED AND RE–ERECTED	FOOT	50
57	CRIMP WATER SERVICE	EACH	10
58	CLEARING	LSUM	1
59	REMOVE AND REPLACE DRAIN TILES, 6–INCH THROUGH 12–INCH	FOOT	340
60	ADJUSTING SANITARY SEWER SERVICE LINE	EACH	116
61	EXPLORATORY EXCAVATION	EACH	12
62	INLET PROTECTION FILTER	EACH	133
63	RESTORATION OF LAWNS AND PARKWAYS	SQYD	1,000
64	TEMPORARY HOT–MIX ASPHALT PAVEMENT	SQYD	1,000
65	CLASS D PATCH	SQYD	1,250
66	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5–INCH BINDER 1.5–INCH SURFACE	SQYD	6,900
67	HOT–MIX ASPHALT REMOVAL AND REPLACEMENT, 4–INCH BINDER 2–INCH SURFACE	SQYD	1,700
68	HOT–MIX ASPHALT SURFACE REMOVAL AND REPLACEMENT, 1.5–INCH	SQYD	2,700
69	HOT–MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3–INCH	SQYD	480
70	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6–INCH	SQYD	310
71	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 8–INCH	SQYD	40
72	GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT	SQYD	50
73	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	4,150
74	PCC SIDEWALK REMOVAL AND REPLACEMENT	SQFT	12,800
75	BRICK SIDEWALK REMOVAL AND REPLACEMENT	SQFT	20
76	DETECTABLE WARNINGS	SQFT	30
77	PAVEMENT MARKING – LINE, 4–INCH (THERMOPLASTIC)	FOOT	2,200
78	PAVEMENT MARKING – LINE, 6–INCH (THERMOPLASTIC)	FOOT	1,790
79	PAVEMENT MARKING – LINE, 12–INCH (THERMOPLASTIC)	FOOT	190
80	PAVEMENT MARKING – LINE, 24–INCH (THERMOPLASTIC)	FOOT	130
81	PAVEMENT MARKING – LETTERS AND SYMBOLS	SQFT	70
82	RAISED REFLECTIVE PAVEMENT MARKER	EACH	40
83	PAVEMENT MARKING REMOVAL, WATER BLASTING	SQFT	490
84	TEMPORARY PAVEMENT MARKING TAPE – TYPE IV – LINE 4"	FOOT	13,050
85	SHORT TERM PAVEMENT MARKING REMOVAL	SQFT	4,350
86	TEMPORARY CONCRETE BARRIER	FOOT	300
87	PINNING TEMPORARY CONCRETE BARRIER	EACH	144
88	IMPACT ATTENUATORS, TEMPORARY (NON–REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2
89	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
90	DETECTOR LOOP REPLACEMENT, TYPE 1	FOOT	72
91	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	12
92	BARRIER WALL REFLECTORS, TYPE C	EACH	4
93	TREE ROOT PRUNING	EACH	16
94	TREE TRIMMING	LSUM	1
95	TREE REMOVAL AND REPLACEMENT, 6–INCH THROUGH 12–INCH	EACH	1
96	TREE REMOVAL AND REPLACEMENT, OVER 12 INCH	EACH	1
97	DUST CONTROL	DAY	55
98	ROCK EXCAVATION	CUYD	500
99	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	CUYD	170
100	SOIL TESTS FOR CONTAMINANTS	EACH	24
101	CONTAMINATED WASTE DISPOSAL	CUYD	170

PART B – LEAD SERVICE LINE IMPROVEMENTS			
102	PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOUR	519
103	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1–INCH (LEAD SERVICE REPLACEMENT)	FOOT	4,275
104	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 1.5–INCH (LEAD SERVICE REPLACEMENT)	FOOT	25
105	WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING, 2–INCH (LEAD SERVICE REPLACEMENT)	FOOT	25
106	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 3/4–INCH	FOOT	25
107	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1–INCH	FOOT	875
108	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1.5–INCH	FOOT	25
109	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 2–INCH	FOOT	25
110	WATER SERVICE CASING PIPE (LEAD SERVICE REPLACEMENT), 2–INCH	FOOT	1,730
111	WATER SERVICE CONNECTION ON PRIVATE PROPERTY – BASEMENT OR CRAWL SPACE (LEAD SERVICE REPLACEMENT)	EACH	87
112	WATER SERVICE CONNECTION ON PRIVATE PROPERTY – SLAB (LEAD SERVICE REPLACEMENT)	EACH	87
113	UTILITY LOCATION – PRIVATE PROPERTY (LEAD SERVICE REPLACEMENT)	EACH	173
114	WATER METER RELOCATION (LEAD SERVICE REPLACEMENT)	EACH	87
115	WATER METER REPLACEMENT (LEAD SERVICE REPLACEMENT)	EACH	87
116	LANDSCAPING PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	HOUR	346
117	LANDSCAPING RESTORATION ALLOWANCE (LEAD SERVICE REPLACEMENT)	EACH	173
118	SHRUB AND BRUSH DISPOSAL (LEAD SERVICE REPLACEMENT)	EACH	346
119	FENCE TO BE REMOVED AND RE–ERECTED (LEAD SERVICE REPLACEMENT)	FOOT	865
120	RESTORATION OF LAWNS AND PARKWAYS (LEAD SERVICE REPLACEMENT)	SQYD	400
121	HOT–MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3–INCH (LEAD SERVICE REPLACEMENT)	SQYD	50
122	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6–INCH (LEAD SERVICE REPLACEMENT)	SQYD	250
123	GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	SQYD	20
124	PCC SIDEWALK REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	SQFT	9,100
PART C – SEWER IMPROVEMENTS			
125	SANITARY SEWER MANHOLE REPAIR NO. 1	LSUM	1

FINAL DESIGN
FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	
	REVISED – 1 ADDENDUM #1 10/31/23
	REVISED – 2 ADDENDUM #2 11/09/23
	REVISED –
	REVISED –

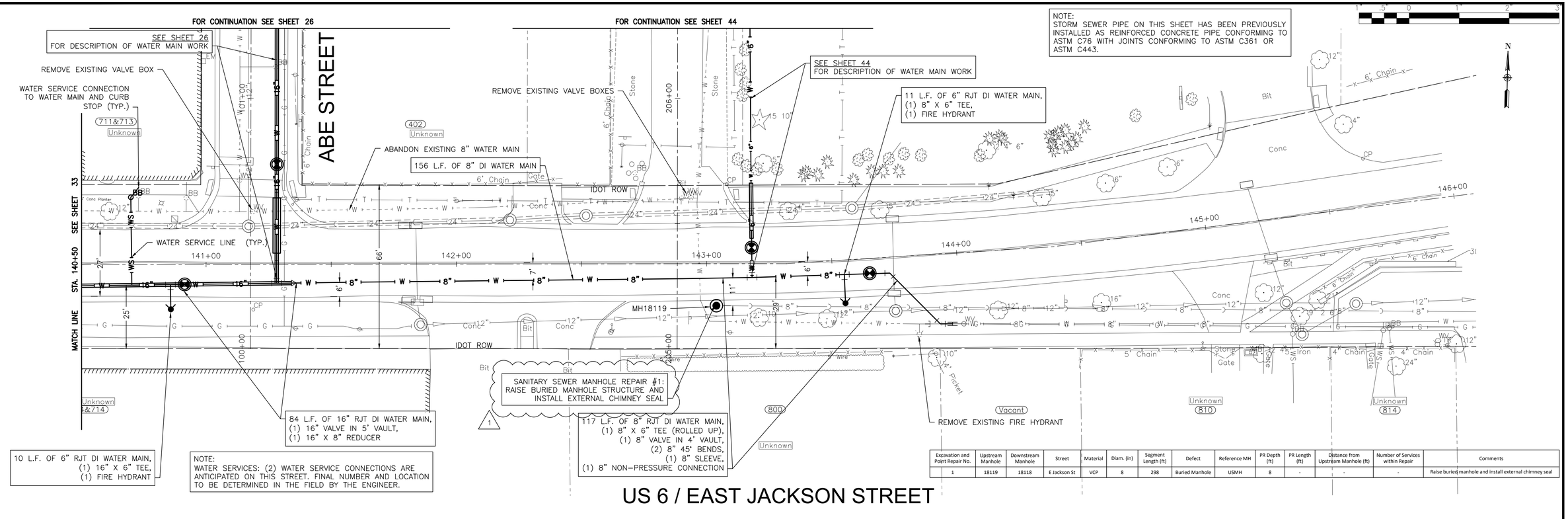
CITY OF JOLIET, ILLINOIS
SPRING CREEK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2767-0124

GENERAL NOTES AND SUMMARY OF QUANTITIES

SCALE: AS NOTED | PROJECT NO: 221587.40

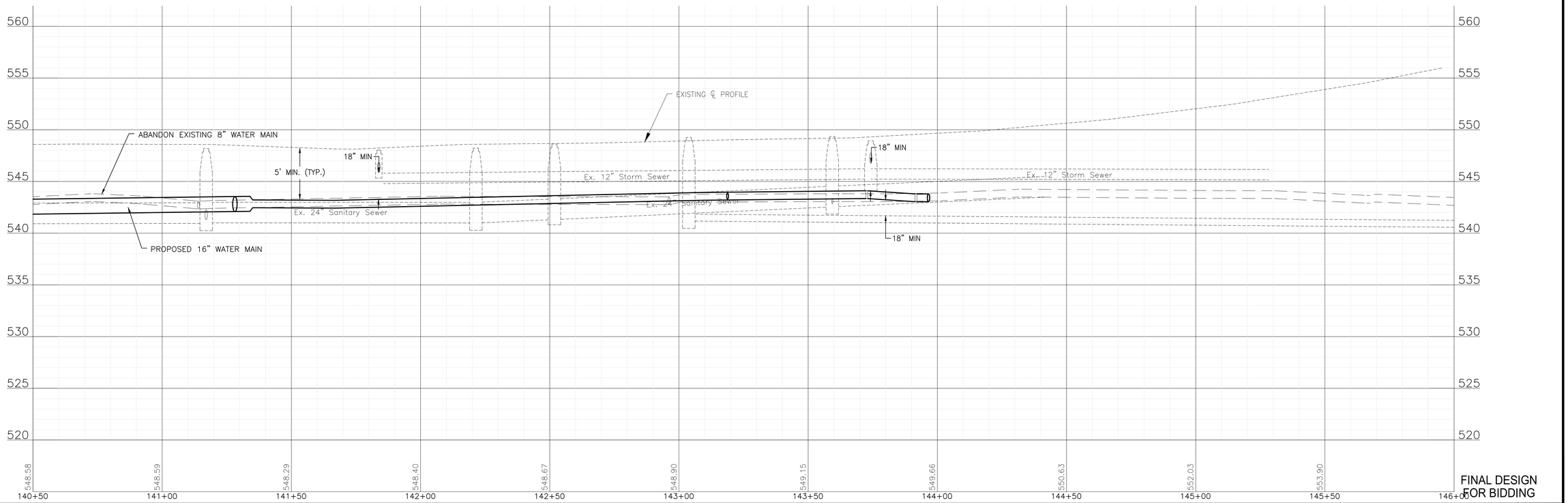
		TOTAL SHEETS	SHEET NO.
DESIGNED – RMM			
DRAWN – AAM/JJS			
CHECKED – MJK		56	4
DATE – 10/12/2023			

P:\JOLIT\221587-2024 WATER MAIN SURVCAD\SPRING CREEK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\221587-SPRING CREEK PHASE 1_COVER_GEN_DETS.DWG GENERAL NOTES & SOQ
Plotted: 11/6/2023 1:06 PM By: RMOELLER
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Excavation and Point Repair No.	Upstream Manhole	Downstream Manhole	Street	Material	Diam. (in)	Segment Length (ft)	Defect	Reference MH	PR Depth (ft)	PR Length (ft)	Distance from Upstream Manhole (ft)	Number of Services within Repair	Comments
1	18119	18118	E Jackson St	VCP	8	298	Buried Manhole	USMH	8	-	-	-	Raise buried manhole and install external chimney seal

US 6 / EAST JACKSON STREET



FINAL DESIGN FOR BIDDING

BAXTER & WOODMAN Consulting Engineers

CONSULTANTS	REVISED – 1 ADDENDUM #2 11/09/23
	REVISED –
	REVISED –
	REVISED –

CITY OF JOLIET, ILLINOIS
SPRING CREEK PHASE 1 WATER MAIN IMPROVEMENTS
CITY OF JOLIET CONTRACT NO.2767-0124

EAST JACKSON STREET STA. 140+50 TO STA. 146+00 PLAN AND PROFILE

SCALE: HORIZ 1"=20' / VERT 1"=5' | PROJECT NO: 221587.40

DESIGNED –	RMM
DRAWN –	AAM/JJS
CHECKED –	MJK
DATE –	10/12/2023

TOTAL SHEETS	SHEET NO.
56	34

P:\JOLITC\221587-2024 WATER MAIN SURV\CAD\SPRING CREEK PHASE 1\01_CIVIL 3D\01_SHTS-PLANS\221587-SPRINGCREEK-DESIGN-SHEETS.DWG 140+50.00
Plotted: 11/7/2023 2:33 PM By: RMOELLER
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ADVERTISEMENT FOR BIDS

CITY OF JOLIET, ILLINOIS

1. Time and Place of Opening Bids. Sealed proposals for the construction of the City of Joliet Contract No. 2767-0124 – Spring Creek Phase 1 Water Main Improvements for the City of Joliet, Will County, Illinois, will be received at the Office of the City Clerk, City of Joliet Municipal Building, 150 West Jefferson Street, Joliet, Illinois 60432-4156 until **10:00 A.M.** local time on **November 30, 2023**, and at that time will be publicly opened and unit price total read aloud. **BIDS WILL BE OPENED AND PUBLICLY READ ALOUD IN CONFERENCE ROOM 1, CITY OF JOLIET MUNICIPAL BUILDING.** It is highly recommended that bids be tabbed to mark the Bid Bond and unit price total pages. It is required that an electronic copy of the entire submission be included on a USB flash drive. Bid results will also be posted on the City's website, and emails sent out to individuals who have subscribed to the related RSS feed. It is preferred that you mail your bids/proposals. They should be addressed as follows:

CITY OF JOLIET – SEALED BID ENCLOSED
OFFICE OF THE CITY CLERK
150 W. JEFFERSON ST.
JOLIET, IL 60432

If you do choose to hand deliver your bid/proposal, they are to be hand delivered to the East or West side of City Hall, 150 W. Jefferson St., Joliet, IL 60432 and marked clearly on the outside of the SEALED package with the BID NUMBER AND NAME OF THE PROJECT, DATE AND TIME OF THE BID OPENING, NAME AND ADDRESS AND PHONE NUMBER OF YOUR COMPANY, and RECEIPT OF ALL ADDENDA (if applicable). All other doors will be locked. Please make sure to mention you are delivering a sealed bid/proposal, so the receiver knows to time stamp the envelope upon receipt. If dropping off a bid in person, bids must be dropped off during business hours only between 8:00 A.M. and 4:30 P.M. Receipt of your submittal in any location other than the City Clerk's office at City Hall, 150 W. Jefferson St., Joliet, IL 60432, does not constitute receipt. If you are using a delivery service, the fact that it was signed for by someone at City of Joliet does not constitute receipt. To ensure that your package was received prior to the opening, you can email cityclerk@joliet.gov or call 815-724-3780 to verify receipt of document.

2. Description of Work. The proposed construction consists of the installation of approximately 780 linear feet of 6-inch, 9,070 linear feet of 8-inch, 790 linear feet of 12-inch, and 3,240 linear feet of 16-inch water main, including new hydrants, services, and other miscellaneous items of work. The contract will include all work necessary to install the water main, install water service lines via directional drilling or open cut methods, reconnect existing water service lines, restore the roadway, and perform all restoration to return the area to its original condition.

3. Information for Bidders. Any contract or contracts awarded under this invitation for bids are expected to be funded in part by a loan from the Illinois Environmental Protection Agency (IEPA). Neither the State of Illinois nor any of its departments, agencies, or employees is or will be a party to this invitation for bids or any resulting contract. The procurement will be subject to

regulations contained in the procedures for issuing loans from the Public Water Supply Loan Program (35 IAC Part 662), the Davis-Bacon Act (40 USC 276a through 276a-5) as defined by the United States Department of Labor, the Employment of Illinois Workers on Public Works Act (30 ILCS 570), the Illinois Works Jobs Program Act Apprenticeship Initiative, the Disadvantaged Business Enterprise policy per 40 CFR Part 33, as amended, and the "Use of American Iron and Steel" requirements as contained in Section 436 of H.R. 3547, the Consolidated Appropriations Act, 2014. This procurement is also subject to loan recipient's policy regarding the increased use of disadvantaged business enterprises. The loan recipient's policy requires all bidders to undertake specified affirmative efforts at least sixteen (16) days prior to bid opening. The policy is contained in the specifications.

Any contract(s) awarded under this invitation for bids are expected to be funded in part by a loan from the United States Environmental Protection Agency (EPA). The procurement must comply with the requirements of the Water Infrastructure Finance and Innovation Act (WIFIA).

All bidders will be required to submit Bid Security in the form of a Certified Check, Cashier's Check, or a Bid Bond in the amount of **Ten percent (10%) of the Base Bid**, payable to the City of Joliet. All Bidding Document holders should sign up for RSS feeds at: https://www.joliet.gov/government/departments/finance/purchasing/bids-proposals/construction-public-utilities and provide your first and last name and email address to automatically receive addendums. Addendums will also be posted on the City of Joliet's website at: www.joliet.gov/bids.The potential vendor/contractor remains responsible for obtaining all addenda to the original specification, so they should check the specific bid page before submitting a bid to make sure they have received all addendums to a specific contract.

Bidders are also required to comply with the President's Executive Order No. 11246, as amended. The requirements for Bidders and Contractors under this order are explained in 41 CFR 60-4. The City of Joliet Local Bidders Ordinance does not apply to this contract.

Those desiring to bid may examine the bid documents and detailed specifications in the City of Joliet Purchasing Division, 150 W. Jefferson St., Joliet, IL 60432 between the hours of 8:00 AM and 4:30 PM, Monday through Friday. Electronic copies can be downloaded free of charge at https://www.joliet.gov/bids.

Contractor(s) shall pay prevailing wages at rates not less than those under Davis-Bacon Wage Act Provisions as determined by U.S. Department of Labor to all laborers, workmen, and mechanics performing work under this contract. The Contract shall also be subject to the provisions of the *Prevailing Wage Act* (820 ILCS 130/1 et seq.) to the extent required by law.

Prequalification pursuant to Ordinance No. 7345 is necessary. Bidders are required to be pre-qualified through the Illinois Department of Transportation, the Capital Development Board or the City of Joliet. It is the responsibility of the bidder to ensure that their pre-qualification information is provided to the City of Joliet Purchasing Division prior to the bid opening. If bidders are not prequalified through IDOT or Capital Development Board, then they must be prequalified with the City of Joliet. Financial prequalification forms can be obtained from the City of Joliet website at https://www.joliet.gov/government/departments/finance/purchasing/prequalification-process. This prequalification MUST be renewed yearly. To check on your current prequalification

status, you can contact purchasing@joliet.gov. The current price for City of Joliet prequalification is $175, which offsets the costs for independent auditor review of the documents. Those documents are to be submitted to the Purchasing Division, City of Joliet, 150 West Jefferson Street, Joliet, IL 60432 at least 6 days prior to the bid opening

If at the time the Agreement for this Project is executed, or if during the term of the Agreement, there is excessive unemployment in Illinois as defined in the Employment of Illinois Workers on Public Works Act, 30 ILCS 570/0.01 et seq., as two consecutive months of unemployment exceeding 5%, the Bidder agrees to employ Illinois laborers in accordance with the "Employment of Illinois Workers on Public Works Act". An "Illinois laborer" is defined as any person who has resided in Illinois for at least thirty (30) days and intends to become or remain an Illinois resident.

All proposals are subject to the requirements of the City of Joliet Procurement Code (Section 2-430 – 2-453) of the Bidder Instructions.

All Bids must be accompanied by a Bidder's bond, certified check, bank cashier's check or bank draft payable to the City of Joliet for ten percent 10% of the total amount of the Bid as provided in the Bidder Instructions.

A **mandatory** Pre-Bid Conference of all prospective Bidders and/or their representatives will be held on November 2 at 10:00 A.M. at the City of Joliet East Side WWTP, 815 Adler Street, Joliet, Illinois 60436. Bidders are **required** to attend and participate in the conference.

Direct all questions about the meaning or intent of the Bidding Documents to the Engineer Mike Kenny (mkenny@baxterwoodman.com).

4. Rejection of Bids. The City of Joliet reserves the right to reject any or all Bids, parts of any and all bids, and to waive technical errors or omissions in bids. Unless the Bids are rejected for good cause, award of contract shall be made to the lowest responsible and responsive Bidder.

Electric Download Free

Published in the Herald News, October 12, 2023

Rod Tonelli, Interim City Manager

Melissa L. Lopez, Purchasing/Contracts Administrator

END OF ADVERTISEMENT FOR BIDS

00 41 00.41

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 Spring Creek Phase 1 Water Main Improvements for the City of Joliet, Will County, Illinois (Engineers' Job No. 221587.40), 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	PRECONSTRUCTION VIDEO RECORDING	1	LSUM	Lump Sum	$
2	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	1	LSUM	Lump Sum	$
3	GRANULAR TRENCH BACKFILL	8,300	CUYD	$	$
4	TRENCH BACKFILL (SPECIAL)	1,500	CUYD	$	$
5	WATER MAIN (OPEN CUT), 4-INCH	15	FOOT	$	$
6	WATER MAIN (OPEN CUT), 6-INCH	1,218	FOOT	$	$

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
7	WATER MAIN (OPEN CUT), 6-INCH DI	346	FOOT	$	$
8	WATER MAIN (OPEN CUT), 8-INCH	8,488	FOOT	$	$
9	WATER MAIN (OPEN CUT), 8-INCH DI	443	FOOT	$	$
10	WATER MAIN (OPEN CUT), 12-INCH DI	791	FOOT	$	$
11	WATER MAIN (OPEN CUT), 16-INCH DI	3,174	FOOT	$	$
12	WATER MAIN (IN JACKED CASING), 8-INCH IN 36-INCH CASING	142	FOOT	$	$
13	WATER MAIN (IN JACKED CASING), 16-INCH IN 36-INCH CASING	66	FOOT	$	$
14	CASING PIPE (OPEN CUT), 16-INCH	90	FOOT	$	$
15	CASING PIPE (TUNNELING UNDER SEWER), 16-INCH	133	FOOT	$	$
16	CASING PIPE (TUNNELING UNDER SEWER), 30-INCH	45	FOOT	$	$
17	MISCELLANEOUS FITTINGS	17,000	POUND	$	$
18	CONNECT TO WATER MAIN (NON-PRESSURE), 4-INCH	1	EACH	$	$
19	CONNECT TO WATER MAIN (NON-PRESSURE), 6-INCH	3	EACH	$	$
20	CONNECT TO WATER MAIN (NON-PRESSURE), 8-INCH	6	EACH	$	$
21	GATE VALVE, 4-INCH	1	EACH	$	$
22	GATE VALVE, 6-INCH	4	EACH	$	$
23	GATE VALVE, 8-INCH	29	EACH	$	$
24	GATE VALVE, 12-INCH	3	EACH	$	$
25	BUTTERFLY VALVE, 16-INCH	13	EACH	$	$

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
26	VALVE BOX	4	EACH	$	$
27	VALVE VAULT, 4-FOOT DIAMETER	30	EACH	$	$
28	VALVE VAULT, 5-FOOT DIAMETER	16	EACH	$	$
29	VALVE VAULT (ADDITIONAL DEPTH), 4-FOOT DIAMETER	4	VFT	$	$
30	VALVE VAULT (ADDITIONAL DEPTH), 5-FOOT DIAMETER	1	VFT	$	$
31	FIRE HYDRANT	37	EACH	$	$
32	FIRE HYDRANT BARREL EXTENSION	7	VFT	$	$
33	LINE STOP, 6-INCH	1	EACH	$	$
34	LINE STOP, 8-INCH	1	EACH	$	$
35	SANITARY SEWER REMOVAL AND REPLACEMENT, 12-INCH	50	FOOT	$	$
36	STORM SEWER REMOVAL AND REPLACEMENT, 10-INCH	70	FOOT	$	$
37	STORM SEWER REMOVAL AND REPLACEMENT, 12-INCH	51	FOOT	$	$
38	REMOVE AND REPLACE STORM SEWER STRUCTURE, TYPE A INLET, 2-FOOT DIAMETER	14	EACH	$	$
39	FILLING OF EXISTING PIPE FOR RETIREMENT	40	CUYD	$	$
40	RETIREMENT OF EXISTING WATER MAINS AND APPURTENANCES	1	LSUM	Lump Sum	$
41	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1-INCH	344	EACH	$	$
42	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 1.5-INCH	2	EACH	$	$
43	WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP, 2-INCH	2	EACH	$	$

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
44	WATER SERVICE LINE TYPE K - OPEN CUT, 1-INCH	1,840	FOOT	$	$
45	WATER SERVICE LINE TYPE K - OPEN CUT, 1.5-INCH	20	FOOT	$	$
46	WATER SERVICE LINE TYPE K - OPEN CUT, 2-INCH	20	FOOT	$	$
47	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1-INCH	6,150	FOOT	$	$
48	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1.5-INCH	60	FOOT	$	$
49	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 2-INCH	60	FOOT	$	$
50	WATER SERVICE CASING PIPE	280	FOOT	$	$
51	PROJECT MANAGEMENT	30	HOUR	$	$
52	UTILITY LOCATION - PRIVATE PROPERTY	10	EACH	$	$
53	LANDSCAPING PROJECT MANAGEMENT	20	HOUR	$	$
54	LANDSCAPING RESTORATION ALLOWANCE	10	EACH	$ 450.00	$
55	SHRUB AND BRUSH DISPOSAL	20	EACH	$	$
56	FENCE TO BE REMOVED AND RE-ERECTED	50	FOOT	$	$
57	CRIMP WATER SERVICE	10	EACH	$	$
58	CLEARING	1	LSUM	Lump Sum	$
59	REMOVE AND REPLACE DRAIN TILES, 6-INCH THROUGH 12-INCH	340	FOOT	$	$
60	ADJUSTING SANITARY SEWER SERVICE LINE	116	EACH	$	$
61	EXPLORATORY EXCAVATION	12	EACH	$	$
62	INLET PROTECTION FILTER	133	EACH	$	$

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
63	RESTORATION OF LAWNS AND PARKWAYS	1,000	SQYD	$	$
64	TEMPORARY HOT-MIX ASPHALT PAVEMENT	1,000	SQYD	$	$
65	CLASS D PATCH	1,250	SQYD	$	$
66	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 2.5-INCH BINDER 1.5-INCH SURFACE	6,900	SQYD	$	$
67	HOT-MIX ASPHALT REMOVAL AND REPLACEMENT, 4-INCH BINDER 2-INCH SURFACE	1,700	SQYD	$	$
68	HOT-MIX ASPHALT SURFACE REMOVAL AND REPLACEMENT, 1.5-INCH	2,700	SQYD	$	$
69	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3-INCH	480	SQYD	$	$
70	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH	310	SQYD	$	$
71	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 8-INCH	40	SQYD	$	$
72	GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT	50	SQYD	$	$
73	CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	4,150	FOOT	$	$
74	PCC SIDEWALK REMOVAL AND REPLACEMENT	12,800	SQFT	$	$
75	BRICK SIDEWALK REMOVAL AND REPLACEMENT	20	SQFT	$	$
76	DETECTABLE WARNINGS	30	SQFT	$	$
77	PAVEMENT MARKING - LINE, 4-INCH (THERMOPLASTIC)	2,200	FOOT	$	$
78	PAVEMENT MARKING - LINE, 6-INCH (THERMOPLASTIC)	1,790	FOOT	$	$
79	PAVEMENT MARKING - LINE, 12-INCH (THERMOPLASTIC)	190	FOOT	$	$
80	PAVEMENT MARKING - LINE, 24-INCH (THERMOPLASTIC)	130	FOOT	$	$

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
81	PAVEMENT MARKING - LETTERS AND SYMBOLS	70	SQFT	$	$
82	RAISED REFLECTIVE PAVEMENT MARKER	40	EACH	$	$
83	PAVEMENT MARKING REMOVAL, WATER BLASTING	490	SQFT	$	$
84	TEMPORARY PAVEMENT MARKING TAPE - TYPE IV - LINE 4"	13,050	FOOT	$	$
85	SHORT TERM PAVEMENT MARKING REMOVAL	4,350	SQFT	$	$
86	TEMPORARY CONCRETE BARRIER	300	FOOT	$	$
87	PINNING TEMPORARY CONCRETE BARRIER	144	EACH	$	$
88	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 2	2	EACH	$	$
89	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	1	EACH	$	$
90	DETECTOR LOOP REPLACEMENT, TYPE 1	72	FOOT	$	$
91	TEMPORARY TRAFFIC SIGNAL TIMING	12	EACH	$	$
92	BARRIER WALL REFLECTORS, TYPE C	4	EACH	$	$
93	TREE ROOT PRUNING	16	EACH	$	$
94	TREE TRIMMING	1	LSUM	Lump Sum	$
95	TREE REMOVAL AND REPLACEMENT, 6-INCH THROUGH 12-INCH	1	EACH	$	$
96	TREE REMOVAL AND REPLACEMENT, OVER 12-INCH	1	EACH	$	$
97	DUST CONTROL	55	DAY	$	$
98	ROCK EXCAVATION	500	CUYD	$	$

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
99	REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL	170	CUYD	$	$
100	SOIL TESTS FOR CONTAMINANTS	24	EACH	$	$
101	CONTAMINATED WASTE DISPOSAL	170	CUYD	$	$
SUBTOTAL PART A - WATER MAIN IMPROVEMENTS:				**$**	
PART B - LEAD SERVICE LINE IMPROVEMENTS					
102	PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	519	HOUR	$	$
103	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1-INCH (LEAD SERVICE REPLACEMENT)	4,275	FOOT	$	$
104	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 1.5-INCH (LEAD SERVICE REPLACEMENT)	25	FOOT	$	$
105	WATER SERVICE LINE TYPE K - DIRECTIONAL DRILLING, 2-INCH (LEAD SERVICE REPLACEMENT)	25	FOOT	$	$
106	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 3/4-INCH	25	FOOT	$	$
107	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1-INCH	875	FOOT	$	$
108	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 1.5-INCH	25	FOOT	$	$
109	WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT), 2-INCH	25	FOOT	$	$
110	WATER SERVICE CASING PIPE (LEAD SERVICE REPLACEMENT), 2-INCH	1,730	FOOT	$	$
111	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - BASEMENT OR CRAWL SPACE (LEAD SERVICE REPLACEMENT)	87	EACH	$	$

SCHEDULE OF UNIT PRICES					
NO.	**PAY ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**TOTAL FOR ITEM**
112	WATER SERVICE CONNECTION ON PRIVATE PROPERTY - SLAB (LEAD SERVICE REPLACEMENT)	87	EACH	$	$
113	UTILITY LOCATION - PRIVATE PROPERTY (LEAD SERVICE REPLACEMENT)	173	EACH	$	$
114	WATER METER RELOCATION (LEAD SERVICE REPLACEMENT)	87	EACH	$	$
115	WATER METER REPLACEMENT (LEAD SERVICE REPLACEMENT)	87	EACH	$	$
116	LANDSCAPING PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)	346	HOUR	$	$
117	LANDSCAPING RESTORATION ALLOWANCE (LEAD SERVICE REPLACEMENT)	173	EACH	$ 450.00	$
118	SHRUB AND BRUSH DISPOSAL (LEAD SERVICE REPLACEMENT)	346	EACH	$	$
119	FENCE TO BE REMOVED AND RE-ERECTED (LEAD SERVICE REPLACEMENT)	865	FOOT	$	$
120	RESTORATION OF LAWNS AND PARKWAYS (LEAD SERVICE REPLACEMENT)	400	SQYD	$	$
121	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, 3-INCH (LEAD SERVICE REPLACEMENT)	50	SQYD	$	$
122	PCC DRIVEWAY REMOVAL AND REPLACEMENT, 6-INCH (LEAD SERVICE REPLACEMENT)	250	SQYD	$	$
123	GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	20	SQYD	$	$
124	PCC SIDEWALK REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)	9,100	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					
125	SANITARY SEWER MANHOLE REPAIR NO. 1	1	LSUM	Lump Sum	$
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 180 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 210 calendar days after the Contract Time commences to run. The estimated Notice to Proceed date is April 1, 2024.

    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 ☐

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

_____
Bidder

(SEAL)

By _____

_____
Name – Title

ATTEST:

_____

_____
Name – Title

END OF BID FORM

SECTION 01 22 29

MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 SUMMARY

A. Payment will be made for the Pay Items listed herein and at the Contract Unit Prices unless otherwise indicated.

B. Work for which a Pay Item is not listed will be considered incidental to the Contract and no additional compensation will be allowed.

C. The Owner reserves the right to alter the Drawings, modify incidental work as may be necessary, and increase or decrease quantities of work to be performed including deduction or cancellation of any one or more of the Pay Items.

D. Quantities necessary to complete the work as shown on the Drawings or as specified herein govern over those shown in the Bid Form. The Engineer will make corrections and interpretations as may be deemed necessary for fulfillment of the intent of the Contract Documents.

E. The Engineer will make measurements and determinations as necessary to classify the work within Pay Items and determine the quantities for payment.

F. If the Contractor's Application for Payment is not in accordance with the Engineer's determination of quantities for payment, the Application will be returned for correction and resubmittal.

PART A – WATER MAIN IMPROVEMENTS

1.2 PRECONSTRUCTION VIDEO RECORDING

A. Description:

1. The work of this Pay Item consists of video recording at the construction areas prior to start of construction.
2. This Pay Item includes providing separate video and photographs of highway rights-of-way, prior to construction, at locations where pipelines are installed parallel to or across highways and the highway authorities require this documentation as a condition of the permit.
3. This Pay item includes providing video in DVD format, and/or digital disk or hard drive format if required by Owner or permitting agency.

B. Basis of Payment:

The work will be paid for at the Contract Lump Sum Price for PRECONSTRUCTION VIDEO RECORDING.

1.3 TRAFFIC CONTROL AND PROTECTION (SPECIAL)

A. Description:
1. Specific traffic control plan details and Special Provisions have been prepared for this contract. This work shall include all labor, materials, transportation, handling and incidental work necessary to furnish, install, maintain and remove all traffic control devices required as indicated in the plans and as approved by the Engineer.
2. When traffic is to be directed over a detour route, the Contractor shall furnish, erect, maintain and remove all applicable traffic control devices along the detour route according to the details shown in the plans.

B. Measurement:
1. All traffic control (and temporary pavement markings) indicated on the traffic control plan details and specified in the Special Provisions will be measured for payment on a lump sum basis.
2. This work will be measured as a lump sum, paid as a direct percentage of total project completion.

C. Basis of Payment:
1. All traffic control and protection will be paid for at the contract lump sum price for TRAFFIC CONTROL AND PROTECTION (SPECIAL). Temporary pavement markings will be paid for separately unless shown on a Standard.

1.4 GRANULAR TRENCH BACKFILL

A. Description:
1. This work shall conform to Section 208 of the “Standard Specifications”. This item shall consist of furnishing, placing, compacting and transporting course aggregate gradation CA-6 or CA-7 for backfilling material for all trenches made within the roadway, driveways, sidewalks, and as directed by the Engineer. All compaction shall be not less than 85 percent optimum, modified proctor. The material shall conform to Article 1004.5. This item also includes the disposal of surplus excavated material which is replaced by trench backfill. Such disposal shall be made in accordance with Article 202.3 of the “Standard Specifications”.
2. The Contractor shall maintain trenches flush with existing surfaces until permanent patches are installed or roadway excavation has begun. No additional compensation will be provided to the Contractor for trench maintenance.
3. Trench backfill quantities are measured from a point 12” above the top of pipe.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price per cubic yard for GRANULAR TRENCH BACKFILL. Quantities incorporated into this item shall be measured by either the Trench Backfill table provided in the technical specifications for water main installation or the Trench Backfill

table published by the State of Illinois, Department of Transportation, Division of Highways, Bureau of Construction for sewer replacements.

VOLUME OF TRENCH BACKFILL (CU YD) PER LINEAL FOOT OF WATER MAIN									
Nominal Pipe Size		4"	6"	8"	10"	12"	14"	16"	24" Casing
Average Depth to Top of Pipe	2.0	**0.08**	**0.08**	**0.09**	**0.09**	**0.10**	**0.11**	**0.11**	**0.13**
	2.5	**0.11**	**0.12**	**0.13**	**0.14**	**0.15**	**0.16**	**0.17**	**0.20**
	3.0	**0.15**	**0.16**	**0.17**	**0.18**	**0.20**	**0.21**	**0.22**	**0.38**
	3.5	**0.18**	**0.20**	**0.21**	**0.23**	**0.38**	**0.40**	**0.42**	**0.47**
	4.0	**0.22**	**0.40**	**0.42**	**0.44**	**0.46**	**0.48**	**0.50**	**0.56**
	4.5	**0.45**	**0.47**	**0.49**	**0.51**	**0.54**	**0.56**	**0.58**	**0.65**
	5.0	**0.51**	**0.53**	**0.56**	**0.59**	**0.61**	**0.64**	**0.66**	**0.75**
	5.5	**0.57**	**0.60**	**0.63**	**0.66**	**0.69**	**0.72**	**0.75**	**0.84**
	6.0	**0.63**	**0.67**	**0.70**	**0.73**	**0.76**	**0.80**	**0.83**	**0.93**
	6.5	**0.70**	**0.73**	**0.77**	**0.80**	**0.84**	**0.88**	**0.91**	**1.02**
	7.0	**0.76**	**0.80**	**0.84**	**0.88**	**0.92**	**0.95**	**0.99**	**1.12**
	7.5	**0.82**	**0.87**	**0.91**	**0.95**	**0.99**	**1.03**	**1.08**	**1.21**
	8.0	**0.89**	**0.93**	**0.98**	**1.02**	**1.07**	**1.11**	**1.16**	**1.30**

1.5 TRENCH BACKFILL (SPECIAL)

A. Description:

1. This work shall conform to Section 208 of the “Standard Specifications”. This item shall consist of furnishing, placing, compacting and transporting coarse aggregate gradation FA-2 or FA-6 for backfilling material for all trenches made within IDOT right-of-way, and as directed by the Engineer. All compaction shall be not less than 85 percent optimum, modified proctor. The material shall conform to Article 1004.5. This item also includes the disposal of the surplus excavated material which is replaced by trench backfill. Such disposal shall be made in accordance with Article 202.03 of the “Standard Specifications”.
2. The Contractor shall maintain trenches flush with existing surfaces until permanent patches are installed or roadway excavation has begun. No additional compensation will be provided to the Contractor for trench maintenance.

B. Basis of Payment:

1. This work will be paid for at the contract unit price per cubic yard for TRENCH BACKFILL (SPECIAL). Quantities incorporated into this item

shall be measured by either Article 208.03(a) of the "Standard Specifications" or the Trench Backfill table published by the State of Illinois, Department of Transportation, Division of Highways, Bureau of Construction.

1.6 WATER MAIN (OPEN CUT)

A. Description:

1. The work of this Pay Item consists of water main pipe and restrained joint type (RJT) water main pipe complete in place, including sawcutting, and removal and disposal of existing pavements; excavation; removal and disposal of waste excavated materials; protection, replacement, or repair of utilities; trench dewatering, including erosion and sedimentation control methods and devices to provide protection to environment from all pumping operations; installation of pipe; bracing; bedding and covering of pipe; trench backfilling with and compaction of excavated materials; testing; disinfection, finish grading; but not including backfilling with granular backfill materials.
2. This Pay Item includes all restrained joint type (RJT) fittings complete in place as shown on the Drawings. Additional fittings not shown on the Drawings shall be paid for as MISCELLANEOUS FITTINGS.
3. This Pay Item includes RJT pipe on each side of a fitting or valve to be restrained to the length indicated on the Drawings, or if not shown on the Drawings, to the distance indicated on the Restrained Joint Type Pipe Length table below or a minimum distance of not less than two factory length pipes on each side of a fitting or valve to be restrained.
    a. A restrained joint between two sections of pipe serves to restrain both pipe sections, and both sections of pipe would be considered RJT pipe.
4. Installing new mains in excess of 5 feet of cover in order to cross existing mains, provide for future improvements or cross below sewer lines is considered incidental to the installation of the water main, and no addition to the contract will be allowed.
5. This Pay Item includes polyethylene wrapping of all ductile iron pipe and fittings.
6. Removal and replacement of material, including unsuitable material, to a depth of one foot below the bottom of the pipe barrel is considered incidental to construction and no addition to the contract will be allowed.
7. Overexcavation, and removal and replacement of unsuitable materials with CA 1 greater than one foot below the bottom of the pipe barrel will be paid for in a separate Pay Item.
8. This Pay Item includes pipe insulation at locations indicated on the Drawings and as directed by the Engineer.
9. This Pay Item includes tree tunneling at locations indicated on the Drawings and as directed by the Engineer.
10. The work of this Pay Item includes all labor and equipment required to obtain and submit all real-time utility GIS updates in accordance with DIGITAL UTILITY DATA COLLECTION.

11. The work of this Pay Item includes providing tracer wire, laid alongside PVC water main installed by open cut methods; installing tracer wire through structures such as valve vaults and fire hydrants; and providing connection points for testing devices in structures, alongside structures, or up to and alongside fire hydrants.
12. The work of this Pay Item includes providing and installing marking tape above water mains that are installed by open cut methods, including protection of the tape during backfill operations. Position warning tape at a distance above pipe, or at a depth below surface, as noted in the Specifications.
13. The City will provide initial field locating of sanitary service laterals. Secondary locates of sanitary services are to be performed by the Contractor as needed and is incidental to the cost of installation of water main. The City will provide GIS files of sanitary service locations to assist with the Contractor's secondary locating. This Pay Item does not include replacement, adjustment, or relocation of any sanitary services, which shall be paid for under ADJUSTING SANITARY SEWER SERVICE LINE.

B. Measurement:
1. The work will be measured in lineal feet along the centerline of the pipe.
2. The measurement will go through fittings and valves.

C. Basis of Payment:
1. The work will be paid for at the Contract Unit Price per lineal foot for WATER MAIN (OPEN CUT) of the pipe sizes and material, regardless of depth.

1.7 WATER MAIN (IN JACKED CASING)

A. Description:
1. The work of this Pay Item consists of water main pipe complete in place inside a steel casing pipe installed by jacking and mining methods; including providing both jacking and receiving pits; tight sheeting to protect adjacent utilities, roadways and property, or to provide protection to the public; leaving tight sheeting in place if indicated on the Drawings; protection, repair or replacement of utilities; traffic control; fencing of work site to provide protection to public; excavation; removal and disposal of waste excavated materials; bracing; dewatering, including erosion and sedimentation control methods and devices to provide protection to environment from all pumping operations; providing and jacking or ramming of casing pipe; providing and installing carrier pipe; grouting of voids between casing and casing excavation; supporting of carrier pipe within the casing; end seals; testing; backfilling with and compaction of excavated materials, or granular backfill materials if indicated on the Drawings; cleanup; and finish grading.
2. Removal and replacement of casing to achieve correct slope, elevation, and bearing will be done at no addition to the Contract.

3. Installation of short lengths of casing or carrier pipe because of limited working room will be done at no addition to the Contract.
4. Water main carrier pipe installed within the casing pipe is included in this Pay Item.
5. Selection of casing pipe diameter will be the Contractor's discretion, subject to the minimum size requirements listed in Section 33 05 23.43. No additional compensation will be allowed for added setups required due to the casing pipe selected by the Contractor.

B. Measurement:
1. The work will be measured in lineal feet for the length of the casing pipe.

C. Basis of Payment:
1. The work will be paid for at the Contract Unit Price per lineal foot for WATER MAIN (IN JACKED CASING) of the casing and carrier pipe sizes and type specified, regardless of depth.

1.8 CASING PIPE (OPEN CUT)

A. Description:
1. The work of this Pay Item consists of installing steel, or PVC casing pipes for sewer pipes, force mains, or water mains to meet water and sewer separation requirements, complete in place by open cut method, including sawcutting, and removal and disposal of existing pavements; excavation; removal and disposal of waste excavated materials; protection, repair or replacement of utilities; trench dewatering, including erosion and sedimentation control methods and devices to provide protection to environment from all pumping operations; installation of casing; installation and support of carrier pipe within casing; end seals; backfilling with compacted excavated materials; but not including backfilling with granular backfill materials.
2. This Pay Item does not include providing or testing the pipe within the casing pipe, which is paid for under separate Pay Items.

B. Measurement:
1. The work will be measured in lineal feet for the length of the casing pipe.

C. Basis of Payment:
1. The work will be paid for at the Contract Unit Price per lineal foot for CASING PIPE (OPEN CUT), of the size indicated.

1.9 CASING PIPE (TUNNELING UNDER SEWER)

A. Description:
1. The work of this Pay Item consists of installing steel, or PVC casing pipes for sewer pipes, force mains, or water mains to meet water and sewer separation requirements, including sawcutting, and removal and disposal of existing pavements; excavation; removal and disposal of waste

excavated materials; protection, replacement, or repair of utilities; trench dewatering, including erosion and sedimentation control methods and devices to provide protection to environment from all pumping operations; augering holes; installation of pipe; bracing; bedding and covering of pipe; trench backfilling with and compaction of excavated materials; testing; disinfection, finish grading; but not including backfilling with granular backfill materials.

2. This Pay Item does not include providing or testing the pipe within the casing pipe, which is paid for under separate Pay Items.

B. Measurement:

1. The work will be measured in lineal feet for the length of the casing pipe.

C. Basis of Payment:

1. The work will be paid for at the Contract Unit Price per lineal foot for CASING PIPE (TUNNELING UNDER SEWER), of the size indicated.

1.10 MISCELLANEOUS FITTINGS

A. Description:

1. The work of this Pay Item consists of any additional fittings necessary to alter or adjust the water main as directed by the Engineer. All fittings shown or inferred by the plans shall be incidental to the cost per lineal foot of WATER MAIN (OPEN CUT). Any fitting indicated on the plans which is deleted will be credited against any claim for payment under MISCELLANEOUS FITTINGS, pound for pound. The Owner shall not in any case request a net credit under this provision.

B. Basis of Payment:

1. The work will be paid for at the contract unit price per pound for MISCELLANEOUS FITTINGS.

1.11 CONNECT TO WATER MAIN (NON-PRESSURE)

A. Description:

1. The work of this Pay Item consists of connecting to existing water mains, including removal of existing plugs; cutting and removing existing mains; thrust blocking; excavation; bracing; bedding and covering of pipe; trench dewatering; trench backfilling with excavated materials; testing; disinfection; finish grading; removal and disposal of waste excavated materials; protection, replacement, or repair of utilities; including backfilling with compacted granular backfill materials where required.

2. This Pay Item includes installation and removal of temporary thrust blocking and temporary plugs and coordination of shutdown of main with Owner and Engineer during final connection.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each CONNECTION TO EXISTING WATER MAIN (NON-PRESSURE) of the pipe sizes.

1.12 GATE VALVE

A. Description:
1. The work of this Pay Item consists of gate valves complete in place, but not including fire hydrant auxiliary valves or tapping valves.
2. The work of this Pay Item includes all labor and equipment required to obtain and submit all real-time utility GIS updates in accordance with DIGITAL UTILITY DATA COLLECTION.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each GATE VALVE of the valve sizes.

1.13 BUTTERFLY VALVE

A. Description:
1. The work of this Pay Item consists of butterfly valves complete in place, but not including fire hydrant auxiliary valves.
2. The work of this Pay Item includes all labor and equipment required to obtain and submit all real-time utility GIS updates in accordance with DIGITAL UTILITY DATA COLLECTION.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each BUTTERFLY VALVE of the valve sizes.

1.14 VALVE BOX

A. Description:
1. The work of this Pay Item consists of valve boxes, complete in place, including polyethylene wrapping of valve box; valve box stabilizer; but not including fire hydrant auxiliary valves.

B. Basis of Payment:
1. The work will be paid for at the contract Unit Price for each VALVE BOX of the valve sizes.

1.15 VALVE VAULT

A. Description:
1. The work of this Pay Item consists of the installation of valve vaults during open cut water main installation complete in place as outlined in the technical specifications and on plan details, including sawcutting, removal and disposal of existing pavements; excavation in excess of that required

for standard pipeline trench construction; removal and disposal of waste excavated materials; bracing, sheeting, and shoring; protection, replacement, or repair of utilities; dewatering, including erosion and sedimentation control methods and devices to provide protection to the environment from all pumping operations; vault bedding; monolithic type vault base with watertight flexible pipe connectors where pipes enter vault wall; manhole risers as required to provide proper depth; concentric cone or flat top cover; frame and cover adjusting rings; frame and cover; steps; backfilling with compacted excavated materials in parkways, and compacted granular materials under pavements; and including frame and cover adjustment to final grade at time of street or parkway restoration.

2. Provide eccentric cones only on vaults utilized for tapping of existing mains, or when indicated on the Drawings.
3. This Pay Item includes providing vaults of sufficient depth to provide the standard depth of cover indicated on the drawings, plus two feet, measured from the top of the water main to the top of the frame and cover. If depth of cover is 5 feet, vaults to a depth of 7 feet from top to main to top of frame and cover will be installed with no addition to the contract allowed. Where deeper vaults are installed, the cost for additional manhole risers required will be paid for in a separate Pay Item.
4. This Pay Item including providing and installing bolt-down watertight frame and cover on all valve vaults.
5. This Pay Item includes providing exterior joint protection on all valve vaults.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each VALVE VAULT, of the size indicated.

1.16 VALVE VAULT (ADDITIONAL DEPTH)

A. Description:
1. The work of this Pay Item consists of providing additional manhole risers for water valve vaults where the depth of cover is over the standard depth described in the pay item for VALVE VAULTS.
2. Depth of a standard valve vault is stated as within two vertical feet of the water main depth of cover, measured from top of main to top of cover, in other words, if standard depth of water main is indicated as 5 feet, a vault measuring 7 feet from top of main to top of frame and cover is a standard vault and no additional compensation will be allowed.

B. Measurement:
1. The work will be measured in vertical feet from the top of the water main to the top of the frame and cover, and the amount over the depth of cover plus 2 feet will be the amount of measurement, in even feet.

C. Basis of Payment:
1. The work will be paid for at the Contract Unit Price per vertical foot of VALVE VAULT (ADDITIONAL DEPTH), of the valve vault diameter indicated.

1.17 FIRE HYDRANT

A. Description:
1. The work of this Pay Item consists of fire hydrants complete in place, including excavation; bracing; bedding and covering of pipe; auxiliary gate valve and valve box; thrust blocking; hydrant barrel drain washed stone pocket; support; trenching dewatering; trench backfilling with excavated materials; testing; disinfection; finish grading; removal and disposal of waste excavated materials; protection, replacement, or repair of utilities; and including backfilling with granular backfill materials where connecting pipe is below pavement.
2. This Pay Item includes polyethylene wrapping of connecting pipe, auxiliary valve, and hydrant.
3. This Pay Item includes providing a fire hydrant of sufficient height to position the hydrant nozzles and break-away flange to the elevations indicated in the technical specifications and plan detail. Contractor will determine the proper “bury” height based on water main size and depth of bury.
4. Where depth of water main is required to be greater than standard bury depth, fire hydrant extensions will be paid for as FIRE HYDRANT BARREL EXTENSION.
5. The work of this Pay Item includes all labor and equipment required to obtain and submit all real-time utility GIS updates in accordance with DIGITAL UTILITY DATA COLLECTION.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each FIRE HYDRANT.

1.18 FIRE HYDRANT BARREL EXTENSION

A. Description:
1. The work of this Pay Item consists of providing barrel extensions for fire hydrants when existing or future final grade conditions result in the water main being deeper than the specified depth of bury, including determining the appropriate extension height and extension necessary, and installation of extension.

B. Measurement:
1. The work will be measured in vertical foot of extension, determined by the amount added to the fire hydrant bury dimensions outlined in Pay Item FIRE HYDRANT.

2. Extensions utilized to obtain the proper amount “bury” on fire hydrants when the water main is not deeper than the specified depth of bury will not be paid for.

C. Basis of Payment:

1. The work will be paid for at the Contract Unit Price for vertical foot of FIRE HYDRANT BARREL EXTENSION, to the nearest foot.

1.19 LINE STOP

A. Description:

1. The work of this Pay Item consists of the installation of a line stop in an existing water main complete, including locating of existing main; sawcutting, and removal and disposal of existing pavements; excavation; removal and disposal of waste excavated materials; protection, repair, or replacement of existing utilities; dewatering, including erosion and sedimentation control methods and devices to provide protection to the environment from all pumping operations; sheeting; shoring; tapping of pipe to install temporary line stop bladder; installation of line stop; and temporary fencing, barricades, and other items needed to provide traffic control and protection and to protect excavation while new valve is being installed.
2. Prior to placing the line stop, the water main to which the line stop apparatus will be attached to shall be disinfected with chlorine. The line stop sleeve and all other components shall be disinfected with chlorine.
3. The work of this Pay Item includes removal of the line stop bladder, and capping of the tapping valve once new main valve is in place; backfilling of the excavation with compacted granular trench backfill material; but not including surface restoration.

B. Basis of Payment:

1. The work will be paid for at the Contract Unit Price for each LINE STOP, of the size indicated.

1.20 SANITARY SEWER REMOVAL AND REPLACEMENT

A. Description:

1. The work of this Pay Item consists of the removal and replacement of existing sanitary sewers with water main quality PVC pipe, including sawcutting, and removal and disposal of existing pavement; protection, repair or replacement of utilities; excavation; removal and disposal of waste excavated material; trench dewatering, including erosion and sedimentation control; watertight connections to existing pipes or structures; installation of pipe; bracing, bedding and covering of pipe; granular trench backfill material at pipe crossing and below all pavement; and cleanup.

2. Comply with the requirements of Section 33 11 43 of these Specifications wherever new water main crosses sewers or sewer service connections or is installed parallel within 10 feet horizontally of any sewer or drain.

B. Measurement:
1. The work will be measured in lineal feet along the centerline of the sanitary sewer removed and replaced.

C. Basis of Payment:
1. The work will be paid for at the Contract Unit Price per lineal foot for SANITARY SEWER REMOVAL AND REPLACEMENT, of the size and type indicated.

1.21 STORM SEWER REMOVAL AND REPLACEMENT

A. Description:
1. The work of this Pay Item consists of the removal and replacement of existing storm sewers with water main quality PVC pipe, including sawcutting, and removal and disposal of existing pavement; protection, repair or replacement of utilities; excavation; removal and disposal of waste excavated material; trench dewatering, including erosion and sedimentation control; watertight connections to existing pipes or structures; installation of pipe; bracing, bedding and covering of pipe; granular trench backfill material at pipe crossing and below all pavement; and cleanup.
2. Comply with the requirements of Section 33 11 43 of these Specifications wherever new water main crosses sewers or sewer service connections or is installed parallel within 10 feet horizontally of any sewer or drain.

B. Measurement:
1. The work will be measured in lineal feet along the centerline of the storm sewer removed and replaced.

C. Basis of Payment:
1. The work will be paid for at the Contract Unit Price per lineal foot for STORM SEWER REMOVAL AND REPLACEMENT, of the size and type indicated.

1.22 REMOVE AND REPLACE INLET

A. Description:
1. The work of this Pay Item consists of the removal and replacement of existing storm sewer inlet structures, including sawcutting, and removal and disposal of existing pavement; protection, repair or replacement of utilities; excavation; removal and disposal of waste excavated material; trench dewatering, including erosion and sedimentation control; watertight connections to existing pipes; granular trench backfill material; and cleanup.

B. Basis of Payment:
   1. The work will be paid for at the Contract Unit Price per each for REMOVE AND REPLACE INLET, of the size and type indicated.

1.23 FILLING OF EXISTING PIPE FOR RETIREMENT

A. Description:
   1. The work of this Pay Item shall be completed in accordance with Section 31 23 79 and shall consist of filling existing water main pipe within IDOT right-of-way with Low Density Cellular Grout, including concrete brick and mortar plugs; temporary plugging of pipes and subsequent removal of temporary plugs; providing fill, vent, and drain holes in the concrete brick and mortar plugs; and all labor, equipment, and materials.

B. Method of Measurement:
   1. The work will be measured in cubic yards of Low Density Cellular Grout used to fill the water main pipes.
   2. Measurement quantity for pipes will be the volume of pipe determined by the length of pipe from inside face of a structure or cut end to inside face of a structure or cut end, and the nominal inside diameter of the pipe.

C. Basis of Payment:
   1. The work will be paid for at the Contract Unit Price per cubic yard for FILLING OF EXISTING PIPE FOR RETIREMENT.

1.24 RETIREMENT OF EXISTING WATER MAINS AND APPURTENANCES

A. Description:
   1. The work of this Pay Item consists of the abandonment of existing water main, valves, vaults, and fire hydrants including installing plugs and/or caps on existing mains where portions of the existing main are to be abandoned after the new main is in service; coordination of shut-down of mains with Owner and Engineer; excavation and re-excavation of locations; removal of fire hydrant and auxiliary valve box; removal of valve box; removal of frame and cone section of valve vault; protection, replacement, or repair of utilities; removal and disposal of waste excavated materials; cutting of mains; installation of plugs or caps; concrete thrusts blocks; backfilling and compaction of excavated materials or granular trench backfill materials in pavements.
   2. This work shall include all labor, materials and equipment necessary to remove an existing fire hydrant and auxiliary valve box. Contractor shall excavate a minimum of 3’ and saw cut and remove riser pipe.
   3. This work shall include all labor, materials, and equipment necessary to remove an existing valve box in its entirety as shown on the plans. Contractor shall be responsible for off-site disposal of valve box.
   4. This work shall include all labor, materials, and equipment necessary to remove the frame and cone section of the vault. Remainder of the vault is to be filled with trench backfill which will be considered incidental to this item. Contractor shall be responsible for off-site disposal of valve vault.

5. Deliver valves, valve boxes, fire hydrants, and frames and lids to the Owner at 921 Washington Street, Joliet, Illinois.
6. Installation of concrete plugs in abandoned water mains or crimping of water services at the edge of the trench area is considered incidental to the installation of the new water main.
7. Removal and disposal of existing water main that must be removed in order to install the new water main or services is considered incidental to construction.
8. Length of dead end main shall be no greater than two times the outside diameter of the main.

B. Basis of Payment:
1. The work will be paid for at the Contract Lump Sum Price for each RETIREMENT OF EXISTING WATER MAINS AND APPURTENANCES, of the type and location noted.

1.25 WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP

A. Description:
1. The work of this Pay Item consists of connecting water service lines to the water mains complete in place, including service saddles; corporation stops; curb stops; service boxes; and all required fittings.
2. The tap into the existing public water main will be performed with the approval of the City of Joliet.
3. This Pay Item includes connecting to the curb stop within meter pits, where meter pits are encountered.
4. Water service connection trenches and pits shall be restored at the end of each work day.
5. Notify the City's Public Utilities Department if existing lead water services are discovered.
6. The work of this Pay Item includes all labor, equipment and materials required to remove the top section of existing b-boxes located by the Contractor and as required by the Engineer.
7. The work of this Pay Item includes all labor and equipment required to obtain and submit all real-time utility GIS updates in accordance with DIGITAL UTILITY DATA COLLECTION.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each WATER SERVICE CONNECTION TO WATER MAIN AND CURB STOP of the service pipe sizes, and the item noted.

1.26 WATER SERVICE LINE TYPE K

A. Description:
1. The work of this Pay Item shall include furnishing and installing all materials required to lay water service piping in accordance to Sections 41-2.11c and 41-2.12 of the "Standard Specifications for Water and Sewer Construction

in Illinois current Edition". The work consists of water service pipe complete in place, by horizontal directional drilling method and open cut method, including excavation; bracing; bedding and covering of pipe; trench dewatering; trench backfilling with excavated materials; testing; disinfection; finish grading; removal and disposal of waste excavated materials; protection, and replacement or repair of utilities.

2. Embedment up to one foot above the pipe and earthen backfill shall be included in the cost per lineal foot of water service line.
3. Water service will be installed by horizontal directional drilling method under street pavements and for all rear yard service replacements, and open cut methods at connection points to water main and existing service pipe.
4. The open cut method includes backfilling with compacted granular backfill materials.
5. All service lines shall have a minimum depth of 54", unless otherwise approved by the Engineer.
6. Installing new services in excess of 5 feet of cover in order to cross existing mains, provide for future improvements or cross below sewer lines is considered incidental to the installation of the service, and no addition to the contract will be allowed.
7. The work of this Pay Item includes all labor and equipment required to obtain and submit all real-time utility GIS updates in accordance with DIGITAL UTILITY DATA COLLECTION.

B. Measurement:
   1. The work will be measured in lineal feet along the centerline of the pipe.

C. Basis of Payment:
   1. The work will be paid for at the Contract Unit Price per lineal foot for WATER SERVICE TYPE K – OPEN CUT or WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING of the water service sizes specified.

1.27 WATER SERVICE CASING PIPE

A. Description:
   1. The work of this Pay Item consists of installing casing pipes for water service pipes to meet water and sewer separation requirements, complete in place by open cut method, including sawcutting, and removal and disposal of existing pavements; excavation; removal and disposal of waste excavated materials; protection, repair or replacement of utilities; trench dewatering, including erosion and sedimentation control methods and devices to provide protection to environment from all pumping operations; installation of casing; installation and support of carrier pipe within casing; end seals; backfilling with compacted excavated materials; but not including backfilling with granular backfill materials.

B. Measurement:
   1. The work will be measured in lineal feet for the length of the casing pipe.

C. Basis of Payment:
   1. The work will be paid for at the Contract Unit Price per lineal foot for WATER SERVICE CASING PIPE, of the size indicated.

1.28 PROJECT MANAGEMENT

A. Description:
   1. The work of this Pay Item shall include all supervision work associated with coordinating and performing the water service installation at a given property. This item is only where applicable water service work on private property is required. A three hour allotment will be allowed for each property. This work will include contacting the owner, meeting with the property owner to layout the installation, obtaining property owner signature on City agreement form, payment plan, no participation form or sample refusal form, providing City with sketch of proposed and as-built installation, scheduling the work, and any follow-up meetings to explain the installation. No additional compensation will be allowed for the management of the project.
   2. Photographs or video shall be taken at each property prior to the start of construction work to document the pre-existing conditions.
   3. Monthly invoices should provide a breakdown of items and cost per property. Costs associated with preparing this breakdown shall be incidental to the contract.
   4. This Pay Item is not applicable when lead services are discovered, which is paid for under a separate Pay Item.

B. Basis of Payment:
   1. This work will be paid for 1 hour for each property where the property declines to participate and for up to 3 hours for each property where a water service is installed on private property. This work will be paid for at the Contract Unit Price per hour for PROJECT MANAGEMENT. No additional compensation will be allowed.

1.29 UTILITY LOCATION – PRIVATE PROPERTY

A. Description:
   1. This work shall include all labor, equipment and materials associated with locating the existing water and sewer services on private property. Where locates are not provided for the water service, sewer service, or buffalo box, the Contractor shall complete locating services for means of installing new service line.
   2. This Pay Item is not applicable when lead services are discovered, which is paid for under a separate Pay Item.

B. Basis of Payment:
   1. The work will be paid for at the Contract Unit Price for each UTILITY LOCATION – PRIVATE PROPERTY.

1.30 LANDSCAPING PROJECT MANAGEMENT

A. Description:

1. The work of this Pay Item shall include the Contract meeting with each homeowner prior to any work being performed on private property in order the make the homeowner aware of the area(s) to be disturbed and the impact to the landscaping. Contractor shall explain the homeowner's options for restoration of landscaping. Homeowners will be offered a $450 allowance to accept the basic restoration and complete the final landscaping on their own. If homeowners accept this option, the Contractor is to secure waivers provided by the City from the residents and submit application forms to the City on the owner's behalf. Alternatively, the homeowner can request the Contractor complete the landscaping.
2. This Pay Item is not applicable when lead services are discovered, which is paid for under a separate Pay Item.

B. Basis of Payment:

1. This work will be paid for as 2 hours for each home where a water service is installed on private property at the contract unit price per hour for LANDSCAPING PROJECT MANAGEMENT. No additional compensation will be allowed.

1.31 LANDSCAPING RESTORATION ALLOWANCE

A. Description:

1. This work shall include all cost to restore the disturbed area at each location to its original condition. The contractor shall salvage existing materials to reuse or provide new materials to match the existing. The contractor shall protect all landscaping to be salvaged until the material is transplanted.
2. This Pay Item is not applicable when lead services are discovered, which is paid for under a separate Pay Item.
3. An allowance of $450 is provided to perform the necessary restoration at each area of disturbance. Itemized bills for each location shall be submitted. Locations requiring an overrun of the $450 allowance shall be approved by the city before work proceeds. The landscaper shall have the flexibility to restore the landscaping or change the surrounding area within the cost allowance as directed by the homeowner. Multiple bushes can be planted in replacement for single bushes.
4. Lawn Restoration will be incidental to the project. The contractor shall take every measure to protect the existing lawn by laying work mats or plywood sheathing. Damage caused by the contractor will be restored at the contractor's expense. Restoration will consist of raking in pulverized topsoil (minimum of 3"), over seeding the disturbed areas and installing blanket or straw netting.
5. No additional compensation will be allowed for replacement of dead vegetation or call backs due to the ground settling. The General Contractor shall ensure that all parties perform the work in a workmanlike manner in order to prevent claims for these items and other foreseeable items.

6. Modifications to the existing landscaping requested by the homeowner will be allowed under this contract. Additional work requested by the homeowner will be paid directly by the homeowner. The contract unit price will be deducted from the contract. Separate payment will be made to the landscaping contractor as an allowance to cover the City's obligation to restore the area. The homeowner and contractor shall submit to the City a Notice of Intent (Contractor's Proposal Form) to have the landscaping modified prior to this work being performed along with a waiver from the homeowner. The City of Joliet will be released from any claims or disputes between the Landscaper and Homeowner.
7. This contract shall include the option to owners to receive a 'LANDSCAPING CREDIT' or cash allowance from the City of $450.00 to perform any restoration on their own. For any residence electing to receive the Landscaping Credit, the owner of the property gives up any claim against the contractor or City for landscaping, whether existing or replaced, which dies. A release form will be provided by the City for the owner to sign. Restoration at the location will be limited to compacting and leveling disturbed areas and placing grass seed in lawn areas. The Contractor shall secure the owners' signature on the release and submit to the City prior to the Credit being issued.

B. Basis of Payment:
1. This work will be paid for as LANDSCAPING RESTORATION ALLOWANCE not to exceed the contract allowance amount of $450. Payment will be made after the work is completed or the terms of the homeowner agreement are completed.

1.32 SHRUB AND BRUSH DISPOSAL

A. Description:
1. The work of this Pay Item shall include removal and disposal of shrubs and bushes from private property in order to install new water services.
2. This Pay Item is not applicable when lead services are discovered, which is paid for under a separate Pay Item.

B. Basis of Payment:
1. The work will be paid for per location at the contract unit price each for SHRUB AND BRUSH DISPOSAL.

1.33 FENCE TO BE REMOVED AND RE-ERECTED

A. Description:
1. The work of this Pay Item shall include of the removal and re-erection of fence segments as necessary to complete the water service replacement work on private property. The fence shall be removed so that all materials considered suitable by the Engineer for future use will be salvaged. The salvaged material shall be stored at locations and in a manner approved by the Engineer. Any of the material having salvage value and which has

been damaged by the Contractor, shall be replaced by the Contractor at his/her own expense with new material of the same kind. The salvaged fence shall be re-erected in accordance with Section 664 of the "Standard Specifications".

2. This Pay Item is not applicable when lead services are discovered, which is paid for under a separate Pay Item.

B. Basis of Payment:

1. This work will be paid for at the contract unit price per linear foot for FENCE TO BE REMOVED AND RE-ERECTED, and measured along the top of the fence from center to center of end posts, which price shall include payment for all excavation and backfilling.

1.34 CRIMP WATER SERVICE

A. Description:

1. This work shall include all labor, equipment and materials required to excavate and crimp existing water service in order to complete interior water service connection at locations approved by Engineer where both the curb stop and interior shut-off are broken or where the curb stop cannot be located. This work shall be considered incidental for exterior water service connections.

B. Basis of Payment:

1. The work will be paid for at the contract unit price each for CRIMP WATER SERVICE.

1.35 CLEARING

A. Description:

1. This work shall be done in accordance with Section 201 of the Standard Specifications, except as modified herein.
2. Clearing work, within City right-of-way, shall consist of removal and disposal of such obstructions as shrubs, bushes, saplings, trees and stumps of a diameter less than six (6) inch.
3. Clearing work shall also include a relocation/stockpiling of existing, to be reused by property owners, hindrances (boulders, markers, ties, etc.) interfering with utility installation work.
4. Clearing work shall also include removal and disposal off of existing, and not to be reused by property owners, edge of road protecting temporary features (wheel stops, boulders, markers, ties, etc.) interfering with utility installation work.

B. Measurement:

1. This work will be measured as a lump sum, paid as a direct percentage of total project completion.

C. Basis of Payment:
1. The work of this Pay Item will be paid for at the Contract Lump Sum Price for CLEARING.

1.36 REMOVE AND REPLACE DRAIN TILES

A. Description:
1. This work shall include all labor, equipment and materials required to remove and replace existing drain lines on private property that are damaged during installation of new water service lines. PVC and corrugated plastic drains shall be replaced to match existing pipe material. VCP drains shall be replaced with PVC.
2. This Pay Item covers pipe sizes as listed in the Bid Form, since the actual size and location of the tiles is unknown.

B. Measurement:
1. The work will be measured along the centerline of the drain tile replaced, for the length of the replacement.

C. Basis of Payment:
1. The work will be paid for at the Contract Unit Price per lineal foot as REMOVE AND REPLACE DRAIN TILES, of the size range indicated.

1.37 ADJUSTING SANITARY SEWER SERVICE LINE

A. Description:
1. The work of this Pay Item shall be completed in accordance with the latest edition of the “Standard Specifications for Water and Sewer Construction in Illinois”, and shall consist of the removal and replacement, or adjustment and relocation, of sanitary sewer service lines in conflict with the water main at crossing locations complete in place, including connections to the existing service lines; couplings; excavation; bracing; bedding and covering of pipe; trench dewatering; finish grading; removal and disposal of waste excavated materials; protection, replacement, or repair of utilities; and backfilling with granular backfill materials.
2. The work shall include either the removal and replacement of service pipe at the existing location, slope, and elevation of the existing service pipe; or the vertical adjustment of the existing service pipe to cross below the water main.
a. Adjustment and relocation will require replacement of enough sanitary sewer service pipe to obtain an adequate elevation difference to cross below the water main with positive slope toward the main line sewer.

B. Basis of Payment:
1. The work will be paid for the Contract Unit Price for each ADJUSTING SANITARY SEWER SERVICE LINE, regardless of the depth, length, size, or pipe material of the sanitary sewer service.

1.38 EXPLORATORY EXCAVATION

A. Description:
1. This Pay Item shall cover all costs associated with performing an exploratory excavation where requested by the Engineer, including equipment; labor; materials; and trench backfill where required.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each EXPLORATORY EXCAVATION.

1.39 INLET PROTECTION FILTER

A. Description:
1. The work of this Pay Item consists of providing and installing inlet protection filters; and removal of filters at the conclusion of the project.

B. Measurement:
1. Inlet protection filters will be measured as an each item.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per each INLET PROTECTION FILTER.

1.40 RESTORATION OF LAWNS AND PARKWAYS

A. Description:
1. The work of this Pay Item consists of complete surface restoration of lawns, parkways, and other grassed areas disturbed as a result of the construction, including topsoil, lime, fertilizer, erosion control materials, seeding, and maintenance.

B. Measurement:
1. The work will be measured in lineal feet along the centerline of the pipe and the area computed in square yards, with a maximum allowable width of 6 feet for main line pipe and maximum width of 6 feet for service pipes.
2. Areas damaged by or disturbed beyond the work area will be restored at no additional cost to Owner.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per square yard for RESTORATION OF LAWNS AND PARKWAYS.

1.41 TEMPORARY HOT-MIX ASPHALT PAVEMENT

A. Description:
1. The work of this Pay Item consists of temporary hot-mix asphalt pavement complete in place at pipeline trenches, including subgrade preparation, for

use during the period between backfilling the trench and constructing the permanent pavement.

2. Install temporary hot-mix asphalt pavement only at high traffic areas such as intersections and as directed by the Engineer.

B. Measurement:

1. The work will be measured in lineal feet along the centerline of the pipe and the quantity computed in square yards, with a maximum width of 6 feet used for payment calculations.
2. All areas disturbed shall be restored, but the maximum allowable trench widths used for pay quantity calculations will be 6 feet centered on the pipe. If the Contractor chooses to relocate the trench farther 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. If the Owner or Engineer relocates the trench away from the curb and gutter, additional quantities will be calculated based on the actual trench width as approved by the Engineer.
3. Areas damaged due to Contractor's neglect or beyond the maximum pay width will not be measured for payment.

C. Basis of Payment:

1. This work will be paid for at the Contract Unit Price per square yard for TEMPORARY HOT-MIX ASPHALT PAVEMENT.

1.42 CLASS D PATCH

A. Description:

1. This work shall consist of the removal of the existing pavement, the necessary excavation and the replacement with the class and type specified, including sawcutting, compaction, and maintenance, according to Section 442 of IDOT Standard Specifications for Road and Bridge Construction, latest edition, except as modified herein.
2. Delete all references to a specified "type" in Article 442.01. The work of this Pay Item includes all types I through IV.
3. The replacement of the pavement patch shall be at least 10 inches in thickness, unless otherwise specified by the Engineer.

B. Measurement:

1. Street restoration pavement patches will be measure in place and the area computed in square yards.
2. Delete the fifth, sixth, seventh, and eighth paragraphs of Article 442.10.
3. Should the Contractor encounter an unanticipated pavement thickness, refer to Section 442.10 of IDOT Standard Specifications for adjustment of pay item.

C. Basis of Payment:

1. Delete Article 442.11 in its entirety and replace it with the following.

a. This work will be paid for at the Contract Unit Price per square yard for CLASS D PATCH. All required compaction and saw cuts will be included in the cost of this item.
b. Where unsuitable material is encountered in the subgrade or subbase and its removal and replacement is required by the Engineer, such removal and replacement will be paid for according to Article 109.04.
c. Where damaged areas occur in the stabilized subbase as a result of the subbase adhering to the removed slab, the area shall be replaced with patch material and will be paid for according to Article 109.04. Any removal or disposal costs for the additional material that adhered to the removed slab shall be included in the contract unit price for the item(s) of patching involved.
d. When additional pavement removal due to unsound concrete or deteriorated steel is directed by the Engineer, the additional quantities will be paid for according to Article 109.04.

1.43 HOT-MIX ASPHALT REMOVAL AND REPLACEMENT

A. Description:
1. The work of this Pay Item consists of replacing street pavement that has been removed as part of the water main work. Restoration will consist of hot-mix asphalt binder course and hot-mix asphalt surface course of the thicknesses specified, installed within the trench limits to match the existing surface. The following items are associated with and shall be considered incidental to this Pay Item:
a. All quality control testing in accordance with Article 1030.05(d).
b. Prime coat applications.
c. Sawcutting to provide clean, straight edges is mandatory, regardless of the number of times required.

B. Measurement:
1. Street restoration of trenches will be measured in place and the area computed in square yards.
a. The length will be measured down the centerline of the pipe.
b. All areas disturbed shall be restored, but the maximum allowable trench widths used for pay quantity calculations will be 6 feet centered on the pipe. If the Contractor chooses to relocate the trench farther 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. If the Owner or Engineer relocates the trench away from the curb and gutter, additional quantities will be calculated based on the actual trench width as approved by the Engineer.

C. Basis of Payment:
1. The street pavement restoration at water main and sewer trenches will be paid for at the Contract unit price per square yard of the thicknesses indicated as HOT-MIX ASPHALT REMOVAL AND REPLACEMENT.

1.44 HOT-MIX ASPHALT SURFACE REMOVAL AND REPLACEMENT

A. Description:
1. The work of this Pay Item consists of removing and replacing street pavement surface outside of and adjacent to the water main trench. Restoration will consist of hot-mix asphalt surface course of the thickness specified, installed from the trench paving limits to the nearest curb or to the street center line, as shown on the plans or as directed by the Engineer and match the existing pavement or curb gutter surface. The following items are associated with and shall be considered incidental to this Pay Item:
a. All quality control testing in accordance with Article 1030.05(d).
b. Prime coat applications.
c. Sawcutting to provide clean, straight edges is mandatory, regardless of the number of times required.

B. Measurement:
1. Street surface removal and replacement will be measured in place and the area computed in square yards, as directed by the Engineer.

C. Basis of Payment:
1. The street surface removal and replacement will be paid for at the Contract unit price per square yard of the thickness indicated as HOT-MIX ASPHALT SURFACE REMOVAL AND REPLACEMENT.

1.45 HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT

A. Description:
1. The work of this Pay Item consists of consists of constructing hot-mix asphalt driveway aprons to match current City standards. The following work items are associated with and shall be considered incidental to, this Pay Item:
a. All quality control testing in accordance with Article 1030.05(d).
b. Excavate and dispose of existing subgrade material to proposed subgrade elevation.
c. Prepare Subgrade.
d. Replace steel edging if applicable.
e. Install minimum 3” aggregate Base Course.
f. Install 1.5-inch hot-mix asphalt base for driveways.
g. Install Bituminous Materials (Prime Coat).
h. Place hot-mix asphalt Surface Course, (1.5-inch compacted depth).
i. Utilize driveway mix for Surface Course if so directed by Engineer.

B. Measurement:
1. Driveway removal and replacement will be measured in place prior to removal, and the area computed in square yards.
2. Additional quantities of driveway, subbase, or subgrade removed due to neglect by the Contractor, as determined by the Engineer, will not be measured for payment.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per square yard for HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT, of the thickness indicated in the Specifications.

1.46 PCC DRIVEWAY REMOVAL AND REPLACEMENT

A. Description:
1. The work of this Pay Item consists of constructing Portland Cement Concrete driveway and subgrade as directed by the Engineer. The following work items are associated with, and shall be considered incidental to, this Pay Item:
a. All quality control testing in accordance with Article 1020.09.
b. Excavate and dispose of existing subgrade material to proposed subgrade elevation.
c. Prepare Subgrade.
d. Replace steel edging if applicable.
e. Install minimum 3” aggregate Base Course.
f. Install 6 x 6-W4.0 x W4.0 welded wire fabric.
g. Install Portland Cement Concrete.
h. Apply Protective Coat.

B. Measurement:
1. Driveway removal will be measured in place prior to removal, and the area computed in square yards.
2. Additional quantities of driveway, subbase, or subgrade removed due to neglect by the Contractor, as determined by the Engineer, will not be measured for payment.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per square yard for PCC DRIVEWAY REMOVAL AND REPLACEMENT, of the thickness indicted in the Specifications.

1.47 GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT

A. Description:
1. The work of this Pay Item consists of removal and complete restoration of gravel driveways as part of the trenching work, including removal and disposal of existing pavement materials, sawcutting, and subgrade preparation.

2. Gravel driveways will consist of 8 inches of CA 6-100 percent crushed aggregate.

B. Measurement:
1. Gravel driveways will be measured in the field and the areas computed in square yards. A maximum width of 6 feet per driveway crossing will be utilized for calculations unless otherwise noted on the drawings.
2. Additional quantities of driveway removed due to neglect by the Contractor, as determined by the Engineer, will not be measured for payment.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per square yard for GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT.

1.48 CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

A. Description:
1. The work of this Pay Item consists of constructing concrete curb and gutter where removal is necessary to allow work shown on the plans to be built, or as directed by the Engineer. Contractor shall match existing curb Type and shall meet existing curb line and grade. The following work items are associated with, and shall be considered incidental to, this Pay Item.
a. All quality control testing in accordance with Article 1020.09.
b. Sawcut existing curb and gutter, including steel reinforcement.
c. Break, remove, and dispose of existing curb and gutter.
d. Prepare aggregate Base Course below curb and gutter.
e. Install Combination Concrete Curb and Gutter.
f. Install all expansion joints, contraction joints, slip dowels, and tie bars.
g. Install Protective Coat.
h. Provide handicap ramps at sidewalks and depressed curb at driveways.

B. Measurement:
1. Curb and Gutter Removal and Replacement will be measured in place in lineal feet along the flow line of the gutter from full-depth sawcut to full-depth sawcut, with a maximum pay quantity of 10 lineal feet per crossing or impacted area, unless otherwise noted on the Drawing.
2. Curb and gutter damaged by the Contractor during construction operations beyond the limits described above, will be replaced but will not be measured for payment.
3. The repair of adjacent pavement, driveways, sidewalks, and landscaping is included in this item unless specifically identified for separate payment on the Drawings.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per lineal foot for CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT.

1.49 PCC SIDEWALK REMOVAL AND REPLACEMENT

A. Description:
   1. The work of this Pay Item consists of constructing sidewalks to match existing. The following work items are associated with, and shall be considered incidental to this Pay Item:
      a. All quality control testing in accordance with Article 1020.09.
      b. Excavate and dispose of existing materials.
      c. Install 4 inches of compacted Aggregate Base Course.
      d. Form and pour Portland cement concrete sidewalk.
      e. Remove forms and backfill areas adjacent to concrete sidewalk.
      f. Apply protective coat.

B. Measurement:
   1. Portland Cement Concrete Sidewalk will be measured in place, and the area computed in square feet, up to the limits indicated on the Drawings.
   2. A maximum width of ten lineal feet per crossing will be utilized for pay quantity calculations.
   3. Sidewalk damaged by the Contractor during construction operations beyond the maximum limits will be replaced but will not be measured for payment.

C. Basis of Payment:
   1. This work will be paid for at the Contract Unit Price per square foot for PCC SIDEWALK REMOVAL AND REPLACEMENT of the material thicknesses indicated in Section 32 10 00.19.

1.50 BRICK SIDEWALK REMOVAL AND REPLACEMENT

A. Description:
   1. This work includes furnishing all materials, equipment and labor necessary to remove and install brick paver sidewalk. All brick paver sidewalk shall be placed on a four inch (4”) thick sub-base aggregate material meeting Gradation CA-6, which shall be considered incidental to this item.
   2. The Contractor shall make record of the existing layout and pattern prior to the removal of the sidewalk to ensure that the replaced sidewalk can be replaced to match the existing sidewalk prior to construction. All bricks shall be carefully salvaged and placed near the area from which they were taken. Any bricks damaged by the Contractor shall be replaced at the Contractor’s expense with paving bricks that match the color and shape of the brick paving units of the existing sidewalk.

B. Basis of Payment:
   1. This work will be paid for at the contract unit price per square foot for BRICK SIDEWALK REMOVAL AND REPLACEMENT, measured in place.

1.51 DETECTABLE WARNINGS

A. Description:
   1. The work of this Pay Item includes constructing detectable warnings with cast-in-place detectable warnings comprised of 24” by 24” square cast iron plates. The panel shall comply with ADA requirements and span the full width of the ramp. The domes located on the plate shall be parallel to the pavement crosswalk with the closest corner at the back of curb. Installation shall be according to the manufacturer’s recommendations.

B. Basis of Payment:
   1. The work will be paid for at the Contract Unit price per square foot for DETECTABLE WARNINGS.

1.52 PAVEMENT MARKING

A. Description:
   1. The work of this Pay Item consists of complete replacement of pavement marking, lines, letters, or symbols of the patterns, sizes, and colors.
   2. Replace all pavement markings removed or damaged within the limits and construction, as shown on the Drawings, as recorded on the "Job Set" plan prior to removal, or as directed by the Engineer. This work shall be done as specified in Sections 780, 781, and 783 of the IDOT "Standard Specifications", and Section 32 10 00.19 of these Specifications.

B. Measurement:
   1. The work will be measured in lineal feet of line, or in square feet for letters and symbols.

C. Basis of Payment:
   1. The work will be paid for at the Contract Unit Price per lineal feet for line, of the widths indicated, and per square foot for letters or symbols as PAVEMENT MARKING, of the type noted.

1.53 RAISED REFLECTIVE PAVEMENT MARKER

A. Description:
   1. This work shall consist of placing permanent and/or temporary raised reflective pavement markers or replacing the reflective element in a raised reflective pavement marker accordance to section 781 of the latest edition of the “Standard Specifications for Road and Bridge Construction”.

B. Basis of Payment:
   1. This work will be paid for at the contract unit prices per each, for RAISED REFLECTIVE PAVEMENT MARKER.

1.54 PAVEMENT MARKING REMOVAL – WATER BLASTING

A. Description:
   1. This work shall consist of removing conflicting pavement marking using water blasting in accordance to section 783 of the latest edition of IDOT "Standard Specifications".

B. Measurement:
   1. This work will be measured for payment in square feet. All existing lines, letters, and symbols will be measure in square feet.

C. Basis of Payment:
   1. This work will be paid for at the Contract Unit Price per square foot for PAVEMENT MARKING REMOVAL – WATER BLASTING.

1.55 TEMPORARY PAVEMENT MARKING TAPE

A. Description:
   1. This work shall consist of furnishing, installing, and maintaining temporary pavement markings in accordance with section 703 of IDOT "Standard Specifications".
   2. Revise the second paragraph of Article 703/05 of the Standard Specifications to read:
      "Type I marking tape or paint shall be used at the option of the Contractor, except paint shall not be applied to the final wearing surface unless authorized by the Engineer for late season applications where tape adhesion would be a problem. Type III or Type IV marking tape shall be used on the final wearing surface with the temporary pavement marking will conflict with the permanent pavement marking such as on tapers, crossovers and lane shifts."
   3. When temporary pavement marking is shown on the Standard, the cost of the temporary pavement marking and its removal will be included in the cost of the Standard.

B. Measurement:
   1. Lines will be measured for payment in place in feet. Double yellow lines will be measured as two separate lines.

C. Basis of Payment:
   1. Type IV temporary pavement marking will be paid for at the contract unit price per foot for PAVEMENT MARKING TAPE, TYPE IV of the line width specified and at the contract unit price per square feet for PAVEMENT MARKING TAPE, TYPE IV.

1.56 SHORT TERM PAVEMENT MARKING REMOVAL

A. Description:
   1. The work shall consist of removing temporary short term pavement markings in accordance to section 783 of the latest edition of IDOT “Standard Specifications”.

B. Measurement:
   1. This work will be measured for payment in square feet. All existing lines, letters, and symbols will be measured in square feet.

C. Basis of Payment:
   1. This work will be paid for at the contract unit price per square foot for SHORT TERM PAVEMENT MARKING REMOVAL.

1.57 TEMPORARY CONCRETE BARRIER

A. Description:
   1. This work shall consist of furnishing, placing, maintaining, and removing temporary concrete barrier in accordance with Section 704 of the “Standard Specifications for Road and Bridge Construction” adopted January 1, 2023.

B. Measurement:
   1. This work will be measured for payment in feet in place along the centerline of the barrier. When the barrier is relocated within the limits of the jobsite, the relocated barrier will be measured for payment in feet along the centerline of the barrier.

C. Basis of Payment:
   1. When the Contractor furnishes the barrier, this work will be paid for at the Contract Unit Price per foot for TEMPORARY CONCRETE BARRIER. Impact attenuators will be paid for separately.

1.58 PINNING TEMPORARY CONCRETE BARRIER

A. Description:
   1. This work shall consist of pinning temporary concrete barriers in accordance with Section 704 of the “Standard Specifications for Road and Bridge Construction” adopted January 1, 2023.
   2. Where both pinned and unpinned barrier units are used in a continuous installation, a transition shall be provided between them. The transition from pinned to unpinned barrier shall consist of two anchor pins installed in the end holes on the traffic side of the first barrier beyond the pinned section and one anchor pin installed in the middle hole on the traffic side of the second barrier beyond the pinned section. The third barrier beyond the pinned section shall then be unpinned.

B. Measurement:
1. Anchor pins, except for the six anchor pins for the barrier unit at each end of an installation, will be paid for as each, per the anchor pin installed.

C. Basis of Payment:
1. Anchor pins, except for the six anchor pins for the barrier unit at each end of an installation, will be paid for at the contract unit price per each PINNING TEMPORARY CONCRETE BARRIER.

1.59 IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 2

A. Description:
1. This work shall consist of furnishing, installing, maintaining, and removing temporary impact attenuators of the category and test levels specified in accordance with Section 706 of the “Standard Specifications for Road and Bridge Construction” adopted January 1, 2023.

B. Measurement:
1. This work will be measured for payment as each, where each is defined as one complete installation.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per each for IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE NARROW), TEST LEVEL 2. Relocation of the devices will be paid for at the Contract Unit Price per each for IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 2.

1.60 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION

A. Description:
1. This work shall consist of maintaining existing traffic signal installation that has been designated to remain in operation during construction. This work shall be in accordance with Section 850 of the “Standard Specifications for Road and Bridge Construction” adopted January 1, 2023.

B. Measurement:
1. This work will be measured for payment as each intersection.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per each for MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION.

1.61 DETECTOR LOOP REPLACEMENT

A. Description:

1. This work shall consist of the replacement of traffic signal detector loops in accordance with the applicable portions of Sections 886, details in the plans, and/or specified herein. The work shall be done by an approved Electrical Contractor as directed by the Engineer. Replacement of the loops shall be accomplished in the following manner: The Engineer shall mark the location of the replacement loops. The Traffic Engineer shall be called to approve loop locations prior to the cutting of the pavement. The Contractor may reuse the existing conduit (duct) located between the existing hand hole and pavement if it hasn't been damaged. All burrs shall be removed from the edges of the existing conduit, which may cause damage to the new detector loop during installation. If the existing conduit is damaged beyond repair, or it cannot be located, or if additional conduits are required to provide one lead-in duct for each loop; the Contractor shall be required to drill through the existing pavement or curb, into the appropriate hand hole, and install 25mm (1") unit duct conduit. Upon establishment of the duct, the loop may be cut, installed, sealed, and spliced to the twisted-shielded controller cable in the hand hole.
2. Detector loop measurements shall include the saw-cut and the length of the loop lead-in, leading from the edge of pavement to the middle of the hand hole, or in the case of temporary signals, the middle of the wood pole. Unit duct, splicing, trench and backfill, and drilling of pavement or handholes shall be incidental to detector loop quantities.
3. All loops installed in new asphalt pavement, shall be in the binder course and not in the surface course. The edge of pavement or the curb shall be cut with a 6.3 mm (1/4") deep x 100 mm (4") saw-cut to mark location of each loop lead-in.
4. A minimum of two (2) working days prior to the Contractor cutting loops, the Contractor shall have the proposed loop locations marked and contact the Traffic Engineer at (815) 724-4210, to approve the layout.
5. Loop detectors shall be installed according to the requirements of the "District 1 Standard Traffic Design Details." Saw-cuts from the loop to the edge of pavement shall be made perpendicular to the edge of pavement, when possible, in order to minimize the length of the saw-cut, unless directed otherwise by the Engineer, or shown on the plans.
6. The detector loop cable insulation shall be labeled with the cable specifications.
7. Each loop detector lead-in wire shall be labeled in the hand hole using a Panduit 250W175C waterproof tag, or approved equal, secured to each wire with nylon ties. The lead-in wire, including all necessary connections for proper operation, from the edge of pavement to the hand hole, shall be incidental to the price of the detector loop.
8. Loop sealant shall be a two component thixotropic chemically cured polyurethane, either Chemque Q-Seal 295, Percol Elastic Cement A/C Grade, or an approved equal. The sealant shall be installed 3mm (1/8")

below the pavement surface, if installed above the surface; the overlap shall be removed immediately.

9. Round loop(s) 1.8 m (six foot) diameter may be substituted for 1.8 m (six foot) square loops, and shall be paid for as 7.2 m (24 feet) of detector loop.
10. Resistance to ground shall be a minimum of 100 mega-ohms under any conditions of weather or moisture.
11. Heat shrink splices shall be used according to the "District 1 Standard Traffic Signal Design Details."

B. Basis of Payment:

1. This item shall be paid for at the contract unit price per foot of DETECTOR LOOP REPLACEMENT, measured along the sawed slot in the pavement containing the loop and lead-in, rather than the actual length of wire in the slot, including the length of the loop lead-in from the edge of the pavement to the middle of the hand hole, or the wood pole, which price shall be payment in full for furnishing, installing, and testing the detector loop complete and in place. Drilling handholes, sawing the pavement, furnishing and installing unit-duct to the appropriate hand hole, cable splicing to provide a fully operable detector loop, and all trench and backfill shall be considered incidental to the cost of DETECTOR LOOP REPLACEMENT.

1.62 TEMPORARY TRAFFIC SIGNAL TIMING

A. Description:

1. This work shall consist of developing and maintaining appropriate traffic signal timings for the specified intersection for the duration of the temporary signalized condition, as well as impact to existing traffic signal timings caused by detours or other temporary conditions.
2. All timings and adjustments necessary for this work shall be performed by an approved Consultant who has previous experience in optimizing Closed Loop Traffic signal Systems for District One of the Illinois Department of Transportation. The Contractor shall contact the Traffic Signal Engineer at (847) 705-4424 for a listing of approved Consultants.
3. The following tasks are associated with TEMPORARY TRAFFIC SIGNAL TIMING.
    a. Consultant shall attend temporary traffic signal inspection (turn-on) and/or detour meeting and conduct on-site implementation of the traffic signal timings.
    b. Consultant shall be responsible for making fine-tuning adjustments to the timings in the field to alleviate observed adverse operating conditions and to enhance operations.
    c. Consultant shall provide monthly observation of traffic signal operations in the field.
    d. Consultant shall provide on-site consultation and adjust timings as necessary for construction stage changes, temporary traffic signal phase changes, and any other conditions affecting timing and phasing, including lane closures, detours, and other construction activities.

e. Consultant shall make timing adjustments and prepare comment responses as directed by the Area Traffic Signal Operations Engineer.
f. Return original timing plan once construction is complete.

B. Basis of Payment:
1. The work shall be paid for at the contract unit price each for TEMPORARY TRAFFIC SIGNAL TIMING, which price shall be payment in full for performing all work described herein per intersection. When the temporary traffic signal installation is turned on and/or detour implemented, 50 percent of the bid price will be paid. The remaining 50 percent of the bid price will be paid following the removal of the temporary traffic signal installation and/or detour.

1.63 BARRIER WALL REFLECTORS

A. Description:
1. The work shall consist of installing barrier wall reflectors in accordance to section 1097 of the latest edition of IDOT “Standard Specifications”.

B. Measurement:
1. This work will be measured for payment in place in units of each. Each of the reflector configurations (mono-directional and bi-directional) will be considered as one each.

C. Basis of Payment:
1. This work will be paid for at the contract unit price per each for BARRIER WALL REFLECTORS, of the type specified.

1.64 TREE ROOT PRUNING

A. Description:
1. The work of this Pay Item consists of root pruning using an approved mechanical root pruning saw prior to excavating around the tree and where indicated on the Drawings or as directed by the Engineer; and in such a manner as to preserve the natural growth habit of each tree complete including an equivalent amount of the top vegetative growth of the plant material within one week following root damage, the application of fertilizer nutrients, and supplemental watering. Root pruning depth to be 12” minimum.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each TREE ROOT PRUNING.

1.65 TREE TRIMMING

A. Description:
   1. The work of this Pay Item consists of trimming of trees and designated by the Engineer.
   2. The Contractor must walk the site with the Engineer prior to initiating trimming operations, and receive approval for limits of trimming.
   3. Only that amount of tree trimming necessary to complete the work will be allowed, and the Contractor must visit the site to determine the amount of clearing that will be necessary to complete the work and therefore base the Bid.

B. Basis of Payment:
   1. The work will be paid for at the Contract Lump Sum Price for TREE TRIMMING.

1.66 TREE REMOVAL AND REPLACEMENT

A. Description:
   1. The work of this Pay Item consists of cutting, grubbing, removing, and replacing trees and stumps indicated to be removed, complete in place including tree stock, soil preparation, fertilizing, mulch, staking, and maintenance.
   2. All tree removals require approval from Owner or Engineer prior to removal.
   3. All tree replacements must be replaced in kind with a similar tree species and must be approved by the City prior to replacement.
   4. Replacement trees must be at least 2.5-inch caliper. Conifers and multi-stemmed ornamental that measure 8-10 feet tall will count as 2.5-inch caliper, 10-12 feet tall as 3-inch caliper, and 12-14 feet tall as 3.5-inch caliper.

B. Measurement:
   1. Inch Diameter. Trees to be removed as a payment item will be measured per inch of diameter. The diameter will be measured at a point 2 feet above the highest ground level at the tree and will be determined by dividing the measured circumference of the tree by 3.1416. Stumps will be measured at the elevation of the cut off.
   2. Only trees greater than or equal to 6-inch in diameter, as defined above will be considered for payment by inch diameter.

C. Basis of Payment:
   1. This work will be paid for at the Contract Unit Price per each for TREE REMOVAL AND REPLACEMENT, 6-INCH THROUGH 12-INCH, and for TREE REMOVAL AND REPLACEMENT, OVER 12-INCH.

1.67 DUST CONTROL

A. Description:
   1. The work of this Pay Item consists of dust control by the uniform application of sprinkled water and utilization of sweepers.
   2. DUST CONTROL shall be performed on an as needed basis as operations and weather dictates, and when directed by the Engineer. Frequency of DUST CONTROL operations is anticipated to be ½ of all working days per month, as defined by IDOT.
   3. All equipment used for this work shall be approved by the Engineer prior to beginning work.

B. Measurement:
   1. The work will be measured per each working day in which dust control operations are performed.

C. Basis of Payment:
   1. The work will be paid for at the Contract Unit Price per day for DUST CONTROL.

1.68 ROCK EXCAVATION

A. Description:
   1. The work of this Pay Item consists of removing and disposing of solid rock.

B. Measurement:
   1. The work will be measured in the field and computed in cubic yards.

C. Basis of Payment:
   1. The work of this Pay Item will be paid for at the Contract Unit Price per cubic yard of rock removed as ROCK EXCAVATION.

1.69 REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL

A. Description:
   1. The work of this Pay Item consists of the removal of organic, soft, spongy or otherwise unsuitable soils found at the bottom of open trench pipe installations or at the bottom of tunnel shafts and the replacement with gradation No. CA 1 stone complete, including removal and disposal of unsuitable materials; protection, replacement, or repair of utilities; and dewatering, including erosion and sedimentation control methods and devices to provide protection to environment from all pumping operations.
   2. Payment will be allowed for only the material below an elevation one foot below the bottom of the pipe barrel, and when removal and replacement is approved by the Engineer.

B. Measurement:
   1. The work will be measured in the field and computed in cubic yards.

C. Basis of Payment:
1. The work will be paid for at the Contract Unit Price per cubic yard for REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL, at the locations noted.

1.70 SOIL TESTS FOR CONTAMINANTS

A. Description:
1. The work of this Pay Item consists of providing the services of a geotechnical engineer to take samples of the soil at the site of the work and provide laboratory testing of the samples to determine if contaminants are present in the soil.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each sample, as SOIL TESTS FOR CONTAMINANTS.

1.71 CONTAMINATED WASTE DISPOSAL

A. Description:
1. The work of this Pay Item consists of testing soil samples and disposal of material from the work site that is determined to be contaminated, based upon criteria of Illinois Environmental Protection Act for CCDD materials. Soil testing should be coordinated with the City laboratory.

B. Measurement:
1. The work will be measured based on verified load tickets.

C. Basis of Payment:
1. The work will be paid for at the Contract Unit Price per cubic yard as CONTAMINATED WASTE DISPOSAL.

PART B – LEAD SERVICE LINE IMPROVEMENTS

1.72 PROJECT MANAGEMENT (LEAD SERVICE LINE REPLACEMENT)

A. Description:
1. The work of this Pay Item shall include all supervision work associated with coordinating and performing the water service installation at a given property. This item is only applicable when an existing lead service is discovered and where water service work on private property is required. A three-hour allotment will be allowed for each property. This work will include contacting the owner, meeting with the property owner to layout the installation, obtaining property owner signature on City agreement form, payment plan, no participation form or sample refusal form, providing City with sketch of proposed and as-built installation, scheduling the work, delivering water filter pitcher and brochure to private property owner, and

any follow-up meetings to explain the installation. No additional compensation will be allowed for the management of the project.

2. Photographs or video shall be taken at each property prior to the start of construction work to document the pre-existing conditions.
3. Monthly invoices should provide a breakdown of items and cost per property. Costs associated with preparing this breakdown shall be incidental to the contract.

B. Basis of Payment:

1. This work will be paid for 1 hour for each property where the property declines to participate and for up to 3 hours for each property where a water service is installed on private property. This work will be paid for at the Contract Unit Price per hour for PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT). No additional compensation will be allowed.

1.73 WATER SERVICE LINE TYPE K (LEAD SERVICE REPLACEMENT)

A. Description:

1. The work of this Pay Item shall include the items listed in Paragraph 1.26 “WATER SERVICE LINE TYPE K”.
2. This item is only applicable when an existing lead service is discovered.

B. Measurement:

1. The work will be measured in lineal feet along the centerline of the pipe.

C. Basis of Payment:

1. The work will be paid for at the Contract Unit Price per lineal foot for WATER SERVICE TYPE K – OPEN CUT (LEAD SERVICE REPLACEMENT) or WATER SERVICE LINE TYPE K – DIRECTIONAL DRILLING (LEAD SERVICE REPLACEMENT) of the water service sizes specified.

1.74 WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT)

A. Description:

1. This work shall include furnishing and installing all materials required to connect existing interior plumbing to new water service location. All fittings required to complete this work shall be considered incidental.
2. This item is only applicable when an existing lead service is discovered.

B. Basis of Payment:

1. The work will be paid for at the Contract Unit Price per lineal foot for WATER SERVICE LINE TYPE L (LEAD SERVICE REPLACEMENT) for the size specified.

1.75 WATER SERVICE CASING PIPE (LEAD SERVICE REPLACEMENT)

A. Description:
1. The work of this Pay Item shall include the items listed in Paragraph 1.27 “WATER SERVICE CASING PIPE”.
2. This item is only applicable when an existing lead service is discovered.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price per lineal foot for WATER SERVICE CASING PIPE (LEAD SERVICE REPLACEMENT) OF the size specified.

1.76 WATER SERVICE CONNECTION ON PRIVATE PROPERTY – BASEMENT OR CRAWL SPACE (LEAD SERVICE REPLACEMENT)

A. Description:
1. This item shall include furnishing and installing all materials required to connect to the existing water service on interior of home up to the water meter where lead water services are discovered. The Contractor shall core drill the existing foundation wall to allow for penetration by the 1” copper water service pipe. The Contractor shall install a PVC sleeve in the foundation to protect the copper service pipe. The interior and exterior of the cored hole shall be completely sealed with hydraulic cement to prevent water infiltration. The Contractor shall exercise caution to prevent damaging the existing foundation. The Contractor shall be responsible for repairing any damage to the foundation caused by the coring operation. The Contractor shall be responsible for moving and restoring any items on the interior of the home that infringe upon the work. The Contractor is responsible for any modifications to the interior plumbing necessary to install new water service. New interior water shut-off valves (ball valves) shall be installed on either side of meter. If existing meter is determined to be in need of replacement, Contractor shall install new meter provided by City.
2. This item is only applicable when an existing lead service is discovered.
3. The Contractor shall be responsible for removing any debris generated by the work on the interior and exterior of the building and restore the area around the water service as nearly as practicable to its original condition.
4. This work shall also include abandoning the existing water service line in place. The existing plumbing shall be capped.
5. This work shall include all labor, equipment and materials required to excavate and crimp existing water service in order to complete interior water service connection at locations approved by Engineer where both the curb stop and interior shut-off are broken or where curb stop cannot be located. This work will be considered incidental.
6. This work shall consist of the removal and re-erection of fence segments as necessary to complete the work. The fence shall be removed so that all materials considered suitable by the Engineer for future use will be salvaged. The salvaged material shall be stored at locations and in a

manner approved by the Engineer. Any of the material having salvage value and which has been damaged by the Contractor, shall be replaced by the Contractor at his/her own expense with new material of the same kind. The salvaged fence shall be re-erected in accordance with Section 664 of the “Standard Specifications”. This work will be considered incidental.

7. This item includes submittal of all required paperwork as outlined in Appendix B – Lead Service Line Improvements Forms. All documentation must be submitted in order to receive payment for the subject addresses.

B. Basis of Payment:

1. The work will be paid for at the Contract Unit Price for each WATER SERVICE CONNECTION ON PRIVATE PROPERTY – BASEMENT OR CRAWL SPACE (LEAD SERVICE REPLACEMENT).

1.77 WATER SERVICE CONNECTION ON PRIVATE PROPERTY – SLAB (LEAD SERVICE REPLACEMENT)

A. Description:

1. This item shall include furnishing and installing all materials required to connect to the existing water service on interior of home up to the water meter where lead water services are discovered. The Contractor shall saw cut and remove a portion of the slab or core drill the slab to allow for penetration by the 1” copper water service pipe at the existing water service location. The Contractor shall install a PVC sleeve in the foundation when restoring the slab to protect the copper service pipe. The interior and exterior of the cored hole shall be completely sealed with hydraulic cement to prevent water infiltration. The Contractor shall exercise caution to prevent damaging the existing foundation. The Contractor shall be responsible for repairing any damage to the foundation caused by the work. The Contractor shall be responsible for moving and restoring any items on the interior of the home that infringe upon the work. The Contractor is responsible for any modifications to the interior plumbing necessary to install new water service. New interior water shut-off valves (ball valves) shall be installed on either side of meter. If existing meter is determined to be in need of replacement, Contractor shall install new meter provided by City.
2. This item is only applicable when an existing lead service is discovered.
3. The Contractor shall be responsible for removing any debris generated by the work on the interior and exterior of the building and restore the area around the water service as nearly as practicable to its original condition.
4. This work shall also include abandoning the existing water service line in place. The existing plumbing shall be capped.
5. This work shall include all labor, equipment and materials required to excavate and crimp existing water service in order to complete interior water service connection at locations approved by Engineer where both the curb stop and interior shut-off are broken or where curb stop cannot be located. This work will be considered incidental.

6. This work shall consist of the removal and re-erection of fence segments as necessary to complete the work. The fence shall be removed so that all materials considered suitable by the Engineer for future use will be salvaged. The salvaged material shall be stored at locations and in a manner approved by the Engineer. Any of the material having salvage value and which has been damaged by the Contractor, shall be replaced by the Contractor at his/her own expense with new material of the same kind. The salvaged fence shall be re-erected in accordance with Section 664 of the "Standard Specifications". This work will be considered incidental.
7. This item includes submittal of all required paperwork as outlined in Appendix B – Lead Service Line Improvements Forms. All documentation must be submitted in order to receive payment for the subject addresses.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each WATER SERVICE CONNECTION ON PRIVATE PROPERTY – SLAB (LEAD SERVICE REPLACEMENT).

1.78 UTILITY LOCATION – PRIVATE PROPERTY (LEAD SERVICE REPLACEMENT)

A. Description:
1. This work shall include all labor, equipment and materials associated with locating the existing water and sewer services on private property. Where locates are not provided for the water service, sewer service, or buffalo box, the Contractor shall complete locating services for means of installing new service line.
2. The work of this Pay Item shall include the items listed in Paragraph 1.29 "UTILITY LOCATION – PRIVATE PROPERTY".
3. This item is only applicable when an existing lead service is discovered.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each UTILITY LOCATION – PRIVATE PROPERTY (LEAD SERVICE REPLACEMENT).

1.79 WATER METER RELOCATION (LEAD SERVICE REPLACEMENT)

A. Description:
1. This work shall include all labor and materials required to relocate existing water meter to new water service entry point into home. Meter shall be located immediately upon entrance of the service pipe into the home approximately 3' off the ground. Meter shall be installed such that it is accessible for maintenance. Contractor to provide and install new shut-off valves (ball valves) on each side of the meter, drain connection between two shut-off valves, and #4 solid copper grounding wire between upstream and downstream with bronze ground clamps. Contractor shall install AMR wire to outside face of building. AMR (Automated Meter Reading) wire will be provided to Contractor by City. City staff will relocate AMR.

2. This pay item is only applicable when new water service location is required and when an existing lead service is discovered.
3. This item includes submittal of all required paperwork as outlined in Appendix B – Lead Service Line Improvements Forms. All documentation must be submitted in order to receive payment for the subject addresses.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each WATER METER RELOCATION (LEAD SERVICE REPLACEMENT).

1.80 WATER METER REPLACEMENT (LEAD SERVICE REPLACEMENT)

A. Description:
1. This work shall include all labor and materials required to replace existing water meter to new water service entry point into home. Meter shall be located immediately upon entrance of the service pipe into the home approximately 3’ off the ground. Meter shall be installed such that it is accessible for maintenance. Contractor to provide and install new shut-off valves (ball valves) on each side of the meter, drain connection between two shut-off valves, and #4 solid copper grounding wire between upstream and downstream with bronze ground clamps. Contractor shall install AMR wire to outside face of building. AMR (Automated Meter Reading) wire will be provided to Contractor by City. City staff will relocate AMR.
2. Ally, iPERL, and Accustream meters with digital LCD readers should not be replaced. Accustream meters with ICE register may be replaced only if not programmed for 8-digit read (see Appendix H). All brass type meters encountered shall be replaced.
3. This item is only applicable when an existing lead service is discovered.
4. This item includes submittal of all required paperwork as outlined in Appendix B – Lead Service Line Improvements Forms. All documentation must be submitted in order to receive payment for the subject addresses.

B. Basis of Payment:
1. The work will be paid for at the Contract Unit Price for each WATER METER REPLACEMENT (LEAD SERVICE REPLACEMENT).

1.81 LANDSCAPING PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT)

A. Description:
1. The work of this Pay Item shall include the Contract meeting with each homeowner prior to any work being performed on private property in order the make the homeowner aware of the area(s) to be disturbed and the impact to the landscaping. Contractor shall explain the homeowner’s options for restoration of landscaping. Homeowners will be offered a $450 allowance to accept the basic restoration and complete the final landscaping on their own. If homeowners accept this option, the Contractor is to secure waivers provided by the City from the residents and submit

application forms to the City on the owner's behalf. Alternatively, the homeowner can request the Contractor complete the landscaping.

2. The work of this Pay Item shall include the items listed in 1.30 "LANDSCAPING PROJECT MANAGEMENT".
3. This item is only applicable when an existing lead service is discovered.

B. Basis of Payment:

1. This work will be paid for as 2 hours for each home where a water service is installed on private property at the contract unit price per hour for LANDSCAPING PROJECT MANAGEMENT (LEAD SERVICE REPLACEMENT). No additional compensation will be allowed.

1.82 LANDSCAPING RESTORATION ALLOWANCE (LEAD SERVICE REPLACEMENT)

A. Description:

1. This work shall include all cost to restore the disturbed area at each location to its original condition. The contractor shall salvage existing materials to reuse or provide new materials to match the existing. The contractor shall protect all landscaping to be salvaged until the material is transplanted.
2. This item is only applicable when an existing lead service is discovered.
3. An allowance of $450 is provided to perform the necessary restoration at each area of disturbance. Itemized bills for each location shall be submitted. Locations requiring an overrun of the $450 allowance shall be approved by the city before work proceeds. The landscaper shall have the flexibility to restore the landscaping or change the surrounding area within the cost allowance as directed by the homeowner. Multiple bushes can be planted in replacement for single bushes.
4. Lawn Restoration will be incidental to the project. The contractor shall take every measure to protect the existing lawn by laying work mats or plywood sheathing. Damage caused by the contractor will be restored at the contractor's expense. Restoration will consist of raking in pulverized topsoil (minimum of 3"), over seeding the disturbed areas and installing blanket or straw netting.
5. No additional compensation will be allowed for replacement of dead vegetation or call backs due to the ground settling. The General Contractor shall ensure that all parties perform the work in a workmanlike manner in order to prevent claims for these items and other foreseeable items.
6. Modifications to the existing landscaping requested by the homeowner will be allowed under this contract. Additional work requested by the homeowner will be paid directly by the homeowner. The contract unit price will be deducted from the contract. Separate payment will be made to the landscaping contractor as an allowance to cover the City's obligation to restore the area. The homeowner and contractor shall submit to the City a Notice of Intent (Contractor's Proposal Form) to have the landscaping modified prior to this work being performed along with a waiver from the homeowner. The City of Joliet will be released from any claims or disputes between the Landscaper and Homeowner.

7. This contract shall include the option to owners to receive a 'LANDSCAPING CREDIT' or cash allowance from the City of $450.00 to perform any restoration on their own. For any residence electing to receive the Landscaping Credit, the owner of the property gives up any claim against the contractor or City for landscaping, whether existing or replaced, which dies. A release form will be provided by the City for the owner to sign. Restoration at the location will be limited to compacting and leveling disturbed areas and placing grass seed in lawn areas. The Contractor shall secure the owners' signature on the release and submit to the City prior to the Credit being issued.
8. The work of this Pay Item shall include the items listed in 1.31 "LANDSCAPING RESTORATION ALLOWANCE".
9. This item is only applicable when an existing lead service is discovered.

B. Basis of Payment:
1. This work will be paid for as LANDSCAPING RESTORATION ALLOWANCE (LEAD SERVICE REPLACEMENT) not to exceed the contract allowance amount of $450. Payment will be made after the work is completed or the terms of the homeowner agreement are completed.

1.83 SHRUB AND BRUSH DISPOSAL (LEAD SERVICE REPLACEMENT)

A. Description:
1. The work of this Pay Item shall include removal and disposal of shrubs and bushes from private property in order to install new water services.
2. The work of this Pay Item shall include the items listed in Paragraph 1.32 "SHRUB AND BRUSH DISPOSAL".
3. This item is only applicable when an existing lead service is discovered.

B. Basis of Payment:
1. The work will be paid for per location at the contract unit price each for SHRUB AND BRUSH DISPOSAL (LEAD SERVICE REPLACEMENT).

1.84 FENCE TO BE REMOVED AND RE-ERECTED (LEAD SERVICE REPLACEMENT)

A. Description:
1. The work of this Pay Item shall include of the removal and re-erection of fence segments as necessary to complete the lead water service replacement work. The fence shall be removed so that all materials considered suitable by the Engineer for future use will be salvaged. The salvaged material shall be stored at locations and in a manner approved by the Engineer. Any of the material having salvage value and which has been damaged by the Contractor, shall be replaced by the Contractor at his/her own expense with new material of the same kind. The salvaged fence shall be re-erected in accordance with Section 664 of the "Standard Specifications".

2. The work of this Pay Item shall include the items listed in Paragraph 1.33 FENCE TO BE REMOVED AND RE-ERECTED".
3. This item is only applicable when an existing lead service is discovered.

B. Basis of Payment:
1. This work will be paid for at the contract unit price per linear foot for FENCE TO BE REMOVED AND RE-ERECTED (LEAD SERVICE REPLACEMENT), and measured along the top of the fence from center to center of end posts, which price shall include payment for all excavation and backfilling.

1.85 RESTORATION OF LAWNS AND PARKWAYS (LEAD SERVICE REPLACEMENT)

A. Description:
1. The work of this Pay Item shall include the items listed in Paragraph 1.40 "RESTORATION OF LAWNS AND PARKWAYS".
2. This item is only applicable when an existing lead service is discovered.

B. Measurement:
1. The work will be measured in lineal feet along the centerline of the pipe and the area computed in square yards, with a maximum allowable width of 6 feet for main line pipe and maximum width of 6 feet for service pipes.
2. Areas damaged by or disturbed beyond the work area will be restored at no additional cost to Owner.
3. Areas damaged or disturbed on private property is incidental and will be restored at no additional cost to the Owner.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per square yard for RESTORATION OF LAWNS AND PARKWAYS (LEAD SERVICE REPLACEMENT).

1.86 HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)

A. Description:
1. The work of this Pay Item shall include the items listed in Paragraph 1.45 "HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT".
2. This item is only applicable when an existing lead service is discovered.

B. Measurement:
1. Driveway removal and replacement will be measured in place prior, and the area computed in square yards.
2. Additional quantities of driveway, subbase, or subgrade removed due to neglect by the Contractor, as determined by the Engineer, will not be measured for payment.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per square yard for HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT) of the thickness indicated in the Specifications.

1.87 PCC DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)

A. Description:
1. The work of this Pay Item shall include the items listed in Paragraph 1.46 “PCC DRIVEWAY REMOVAL AND REPLACEMENT”.
2. This item is only applicable when an existing lead service is discovered.

B. Measurement:
1. Driveway removal and replacement will be measured in place, and the area computed in square yards.
2. Additional quantities of driveway, subbase, or subgrade removed due to neglect by the Contractor, as determined by the Engineer, will not be measured for payment.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per square yard for PCC DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT).

1.88 GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)

A. Description:
1. The work of this Pay Item shall include the items listed in Paragraph 1.47 “GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT”.
2. This item is only applicable when an existing lead service is discovered.

B. Measurement:
1. Gravel driveways will be measured in the field and the areas computed in square yards. A maximum width of 6 feet per driveway crossing will be utilized for calculations unless otherwise noted on the drawings.
2. Additional quantities of driveway removed due to neglect by the Contractor, as determined by the Engineer, will not be measured for payment.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per square yard for GRAVEL DRIVEWAY REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT).

1.89 PCC SIDEWALK REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT)

A. Description:
1. The work of this Pay Item shall include the items listed in Paragraph 1.49 “PCC SIDEWALK REMOVAL AND REPLACEMENT”.
2. This item is only applicable when an existing lead service is discovered.

B. Measurement:
1. Portland Cement Concrete Sidewalk will be measured in place, and the area computed in square feet, up to the limits indicated on the Drawings.
2. A maximum width of ten lineal feet per crossing will be utilized for pay quantity calculations.
3. Sidewalk damaged by the Contractor during construction operations beyond the maximum limits will be replaced but will not be measured for payment.

C. Basis of Payment:
1. This work will be paid for at the Contract Unit Price per square foot for PCC SIDEWALK REMOVAL AND REPLACEMENT (LEAD SERVICE REPLACEMENT) of the material thicknesses indicated in Section 32 10 00.19.

PART C – SANITARY SEWER IMPROVEMENTS

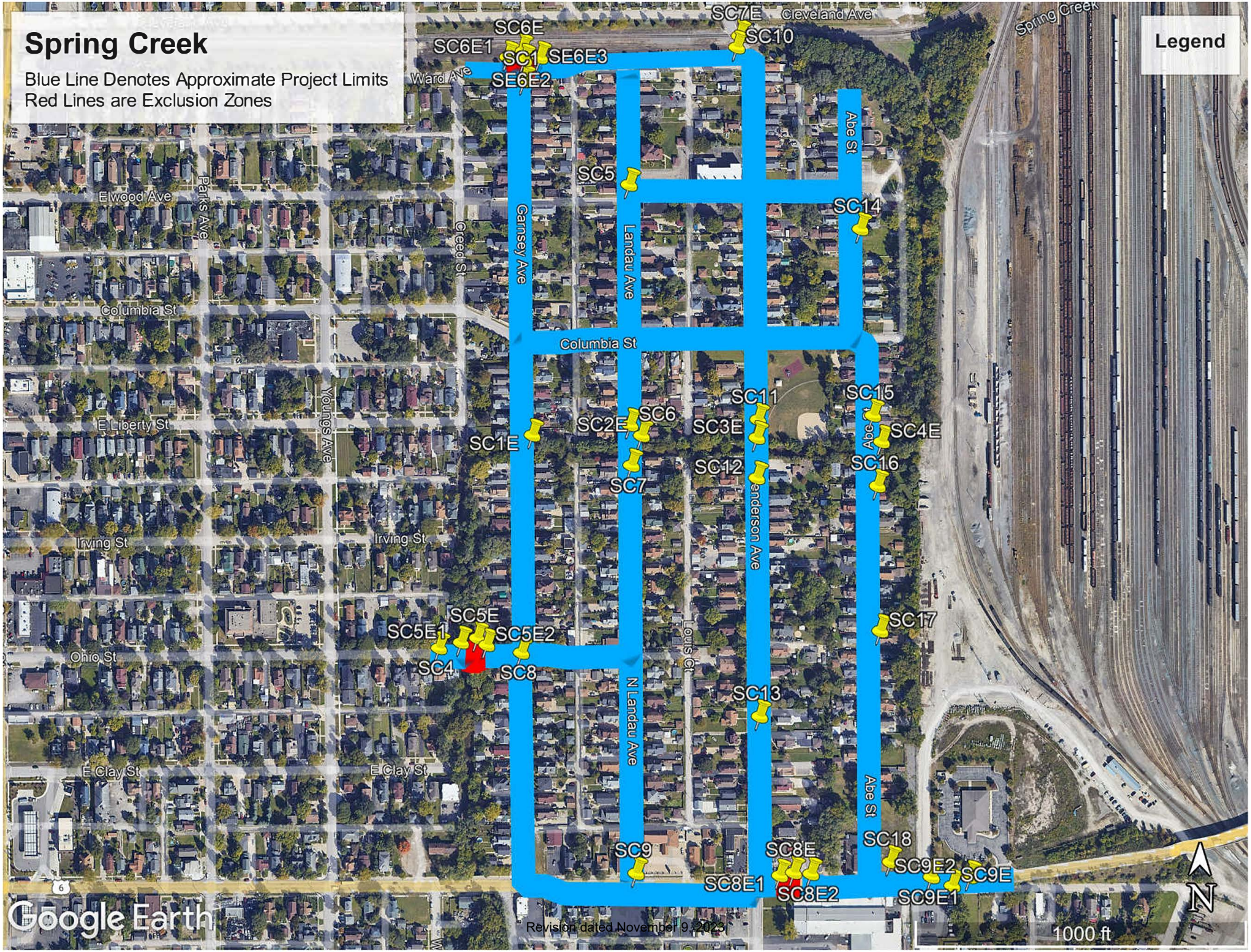
1.90 SANITARY SEWER MANHOLE REPAIR

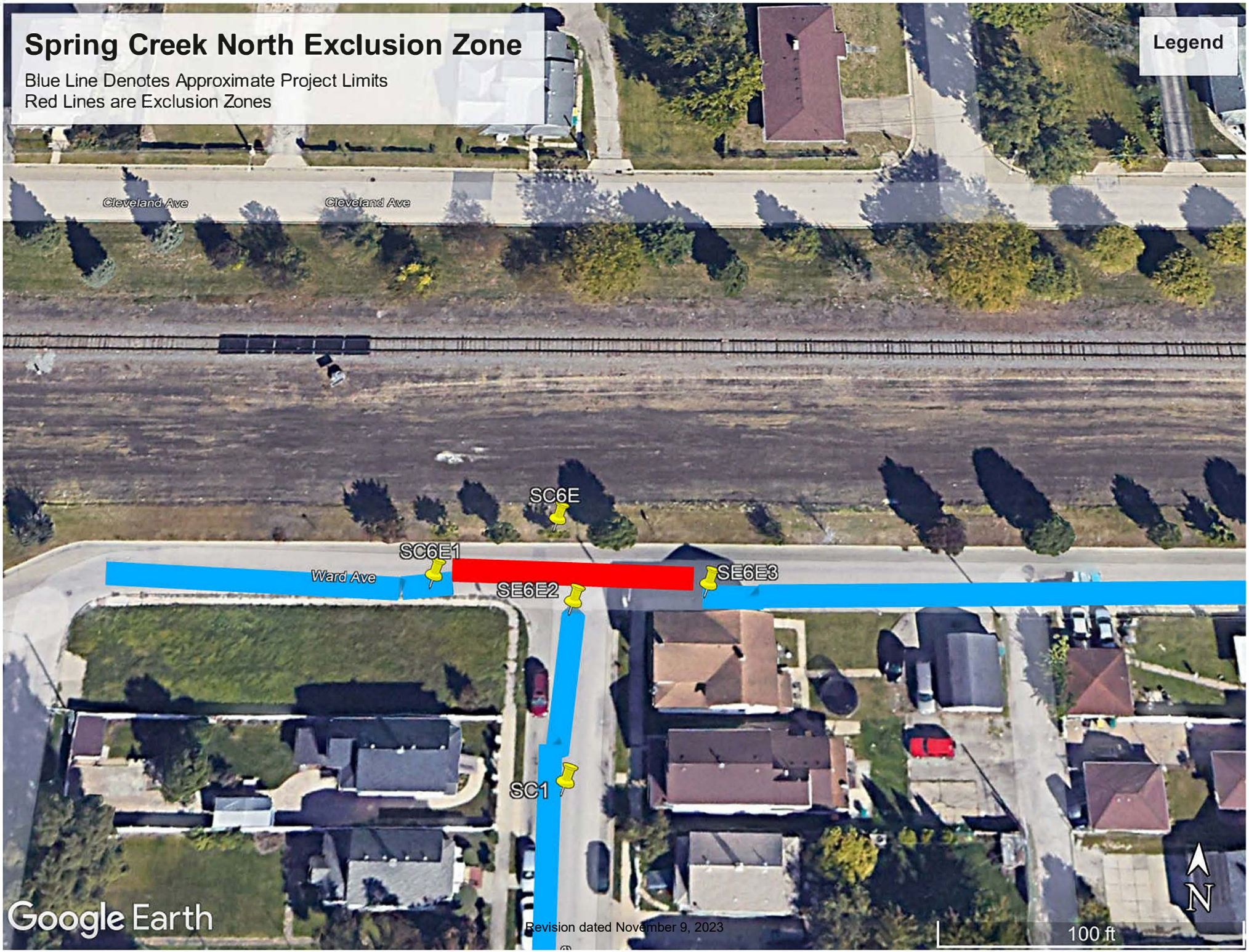
A. Description:
1. The work of this pay item consists of the repair of sanitary sewer manholes including the installation of external chimney seals, replacement of manhole covers; saw cutting, and removal and disposal of existing pavement; excavation; removal and disposal of excavated material; trench dewatering, including erosion and sedimentation control methods and devices to protect the environment from all pumping operations; temporary pumping of sewage around the work area if necessary to complete work; protection, replacement, or repair of utilities; partial reconstruction which will replace the upper part of the manhole including the existing manhole frame and cover, adjustment rings, and chimney corbel/cone and including frame and cover adjustment to final grade at time of street or parkway final restoration. Existing adjustments risers and existing frame and cover can be reinstalled if they are in satisfactory condition, and at the direction of the engineer; backfilling with granular backfill materials under pavements, and compacted excavated materials at areas in parkways or lawns; restoration of lawns, parkways, trees and shrubbery of same type and size, driveways, sidewalks, streets, shoulders, and all areas disturbed during construction.

B. Basis of Payment:

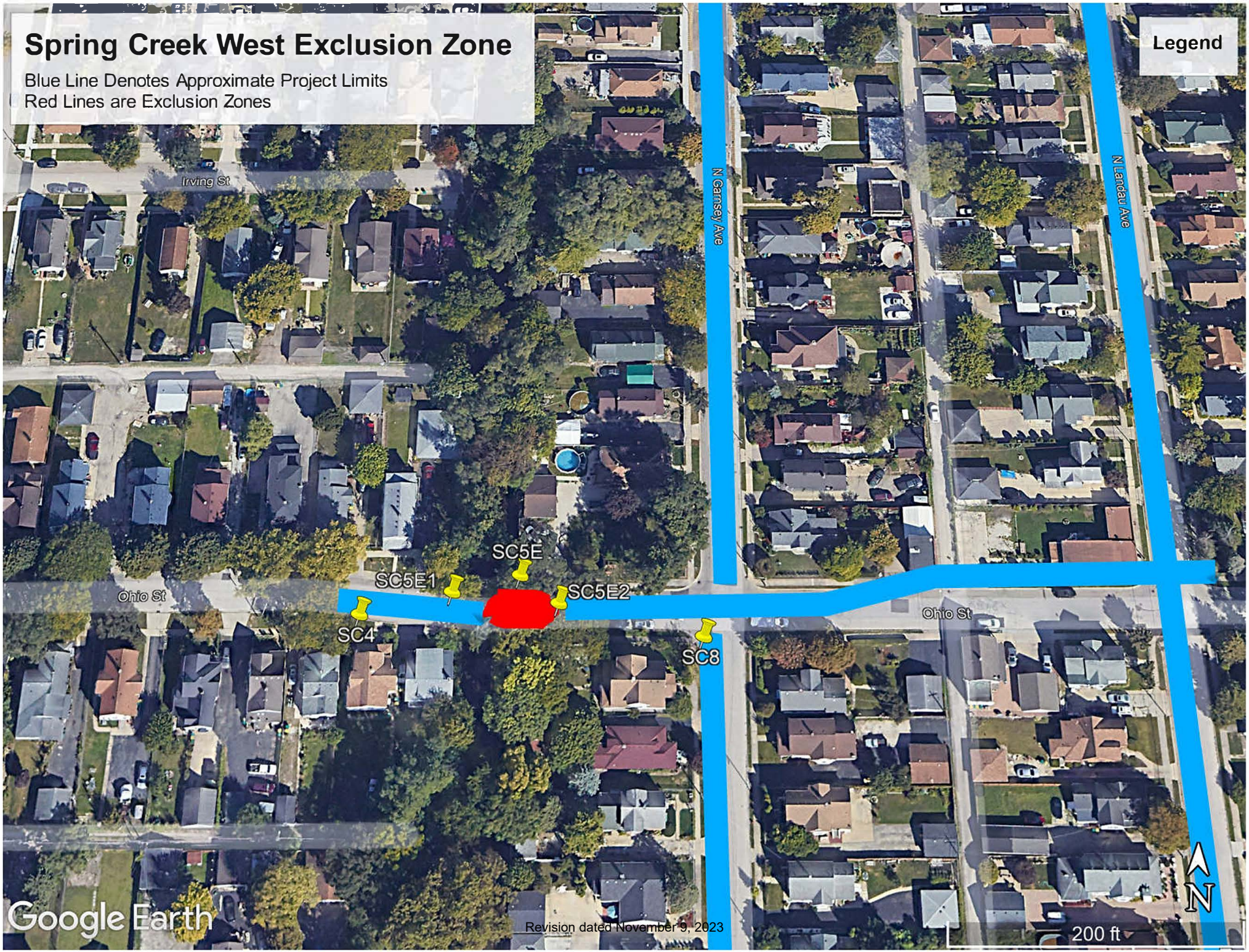
1. The work will be paid for at the Contract Lump Sum Price for each SANITARY SEWER MANHOLE REPAIR, of the repair number indicated.

END OF SECTION


Spring Creek
Blue Line Denotes Approximate Project Limits
Red Lines are Exclusion Zones
Legend
SC7E
Cleveland Ave
SC6E
SC6E1
SC1
SE6E3
SE6E2
SC10
Ward Ave
Spring Creek
Abe St
SC5
SC14
Elwood Ave
Parks Ave
Creed St
Garnsey Ave
Landau Ave
Columbia St
Columbia St
SC11
SC15
SC6
SC2E
SC3E
SC4E
SC1E
Youngs Ave
E Liberty St
Abe St
SC12
SC16
SC7
Henderson Ave
Irving St
Irving St
SC5E
SC17
SC5E1
SC5E2
Louis Ct
Ohio St
SC4
SC8
N Landau Ave
SC13
E Clay St
E Clay St
Abe St
SC18
SC9
SC8E
SC9E2
SC9E
SC8E1
SC8E2
SC9E1
Google Earth
Revision dated November 9, 2023
1000 ft
N


Spring Creek North Exclusion Zone
Blue Line Denotes Approximate Project Limits
Red Lines are Exclusion Zones
Legend
Cleveland Ave
Cleveland Ave
SC6E
SC6E1
Ward Ave
SE6E2
SE6E3
SC1
Google Earth
Revision dated November 9, 2023
100 ft
N


Spring Creek South Exclusion Zone
Blue Line Denotes Approximate Project Limits
Red Lines are Exclusion Zones
Legend
Henderson Ave
Abe St
SC8E1
SC8E
SC8E2
SC18
Google Earth
Revision dated November 9, 2023
200 ft
N


Spring Creek West Exclusion Zone
Blue Line Denotes Approximate Project Limits
Red Lines are Exclusion Zones
Legend
Irving St
N Garnsey Ave
N Landau Ave
SC5E
SC5E1
SC5E2
Ohio St
SC4
SC8
Ohio St
Google Earth
Revision dated November 9, 2023
200 ft
N

First Environmental Laboratories, Inc

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August 03, 2023

Mr. Don Cassier
SEECO ENVIRONMENTAL SERVICES
7350 Duvan Drive
Tinley Park, IL 60477

Project ID: 13318-SC
First Environmental File ID: 23-6616
Date Received: July 31, 2023

Dear Mr. Don Cassier:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922023-10: effective 03/07/2023 through 02/28/2024.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Ryan Gerrick
Project Manager

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Case Narrative

SEECO ENVIRONMENTAL SERVICES

Lab File ID: **23-6616**

Project ID: **13318-SC**

Date Received: **July 31, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected
23-6616-001	SC1 2'	7/29/2023 6:00
23-6616-002	SC4 3'	7/29/2023 6:15
23-6616-003	SC5 2'	7/29/2023 6:40
23-6616-004	SC6 3'	7/29/2023 7:00
23-6616-005	SC7 2'	7/29/2023 7:15
23-6616-006	SC8 3'	7/29/2023 7:30
23-6616-007	SC9 2'	7/29/2023 7:50
23-6616-008	SC10 3'	7/29/2023 8:10
23-6616-009	SC11 2'	7/29/2023 8:30
23-6616-010	SC12 3'	7/29/2023 8:45
23-6616-011	SC13 2'	7/29/2023 9:00
23-6616-012	SC14 3'	7/29/2023 9:30
23-6616-013	SC15 2'	7/29/2023 9:50
23-6616-014	SC16 3'	7/29/2023 10:15
23-6616-015	SC17 2'	7/29/2023 10:40
23-6616-016	SC18 3'	7/29/2023 11:00

Sample Batch Comments:

Sample acceptance criteria were met.

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Case Narrative

SEECO ENVIRONMENTAL SERVICES

Lab File ID: **23-6616**

Project ID: **13318-SC**

Date Received: **July 31, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	6:00
Sample ID:	SC1 2'	**Date Received:**	07/31/23
Sample No:	23-6616-001	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	7.87		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	6:15
Sample ID:	SC4 3'	**Date Received:**	07/31/23
Sample No:	23-6616-002	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	7.97		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	6:40
Sample ID:	SC5 2'	**Date Received:**	07/31/23
Sample No:	23-6616-003	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	8.85		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	7:00
Sample ID:	SC6 3'	**Date Received:**	07/31/23
Sample No:	23-6616-004	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	8.10		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	7:15
Sample ID:	SC7 2'	**Date Received:**	07/31/23
Sample No:	23-6616-005	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	7.17		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	7:30
Sample ID:	SC8 3'	**Date Received:**	07/31/23
Sample No:	23-6616-006	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	8.22		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	7:50
Sample ID:	SC9 2'	**Date Received:**	07/31/23
Sample No:	23-6616-007	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	7.65		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	8:10
Sample ID:	SC10 3'	**Date Received:**	07/31/23
Sample No:	23-6616-008	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	7.72		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	8:30
Sample ID:	SC11 2'	**Date Received:**	07/31/23
Sample No:	23-6616-009	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	7.11		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	8:45
Sample ID:	SC12 3'	**Date Received:**	07/31/23
Sample No:	23-6616-010	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	7.60		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	9:00
Sample ID:	SC13 2'	**Date Received:**	07/31/23
Sample No:	23-6616-011	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	7.47		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	9:30
Sample ID:	SC14 3'	**Date Received:**	07/31/23
Sample No:	23-6616-012	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	6.40		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	9:50
Sample ID:	SC15 2'	**Date Received:**	07/31/23
Sample No:	23-6616-013	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	6.95		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	10:15
Sample ID:	SC16 3'	**Date Received:**	07/31/23
Sample No:	23-6616-014	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	6.87		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	10:40
Sample ID:	SC17 2'	**Date Received:**	07/31/23
Sample No:	23-6616-015	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	7.95		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	07/29/23
Project ID:	13318-SC	**Time Collected:**	11:00
Sample ID:	SC18 3'	**Date Received:**	07/31/23
Sample No:	23-6616-016	**Date Reported:**	08/03/23

Analyte	Result	R.L.	Units	Flags
pH @ 25°C, 1:2 **Method: 9045D**				
Analysis Date: 08/03/23 11:10				
pH @ 25°C, 1:2	8.46		Units	

CHAIN OF CUSTODY RECORD

Page ___ of ___ Pgs

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E-Mail: firstinfo@firstenv.com
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1 of 2

Company Name: SEECO ENVIRONMENTAL SERVICES			
Street Address: 7350 Duvan Drive			
City: Tinley Park	State: IL	Zip: 60477	
Phone: 708-429-1685	e-Mail: cassier@seeco.com		
Send Report To: Don Cassier	Hardcopy: ☐	PDF e-Mail: ■	
Sampled By: DC			

Project I.D. 13318 - SC

P.O. #: _____

Enter analyses required on the lines to the left. Place an "X" in the box below to indicate which samples require what analysis.

Date/Time Taken	Sample Description	Matrix*	pH	Total 8 RCRA Metals	VOCs	SVOCs	PNAs	PCBs		HOLD-Do not analyze	Comments	Lab I.D.
7/29/23 6:00	SC 1 2'	S	X								23	6616-001
6:25	SC 4 3'											002
1:40	SC 5 2'											003
7:00	SC 6 3'											004
7:15	SC 7 2'											005
7:30	SC 8 3'											006
7:50	SC 9 2'											007
8:10	SC 10 3'											008
8:30	SC 11 2'											009
8:45	SC 12 3'											010
9:00	SC 13 2'											011
9:30	SC 14 3'		X									012

FOR LAB USE ONLY:
Cooler Temperature: 0.1-6°C Yes ✓ No ___ 4 °C
Received within 6 hrs of collection ___
Ice Present: Yes ✓ No ___

FOR LAB COURIER USE ONLY:
Sample Refrigerated: Yes ✓ No ___
Refrigerator Temperature: 4 °C

Program: ☐ TACO/SRP ☐ CCDD ☐ NPDES ☐ LUST ☐ SDWA

*Matrix Code Key: **DW**-drinking water **GW**-groundwater **WW**- wastewater **S**-soil **SL**-sludge **WIPE**-wipe **O**-other

Notes and Special Instructions: Extra 10%

Relinquished By:	Date/Time: 7/31/23 500	Received By:	Date/Time: 7/31/23 950
Relinquished By:	Date/Time:	Received By:	Date/Time:

Rev 10/19

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CHAIN OF CUSTODY RECORD

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2 of 2

Company Name: SEECO ENVIRONMENTAL SERVICES			
Street Address: 7350 Duvan Drive			
City: Tinley Park	State: IL	Zip: 60477	
Phone: 708-429-1685	e-Mail: cassier@seeco.com		
Send Report To: Don Cassier	Hardcopy: ☐	PDF e-Mail: ■	
Sampled By:			

Project I.D.: 13318-SC

P.O. #:

Enter analyses required on the lines to the left. Place an "X" in the box below to indicate which samples require what analysis.

Date/Time Taken	Sample Description	Matrix*	pH	Total 8 RCRA Metals	VOCs	SVOCs	PNAs	PCBs		HOLD-Do not analyze	Comments	Lab I.D.
7/27/23 9:50	SC 15 2'	S									23-	66164013
10:15	SC 16 3'											014
10:40	SC 17 2'											015
11:00	SC 18 3'											016

FOR LAB USE ONLY:
Cooler Temperature: 0.1-6°C Yes ✓ No ___ 4 °C
Received within 6 hrs of collection: ___
Ice Present: Yes ___ No ___

FOR LAB COURIER USE ONLY:
Sample Refrigerated: Yes ✓ No ___
Refrigerator Temperature 4 °C

Program: ☐ TACO/SRP ☐ CCDD ☐ NPDES ☐ LUST ☐ SDWA

*Matrix Code Key: **DW**-drinking water **GW**-groundwater **WW**- wastewater **S**-soil **SL**-sludge **WIPE**-wipe **O**-other

Notes and Special Instructions: Extra 10%

Relinquished By:	Date/Time: 7/31/23 5pm	Received By:	Date/Time: 7/31/23 9:50
Relinquished By:	Date/Time:	Received By:	Date/Time:

Rev 10/19

2024 WATERMAIN IMPROVEMENTS
CITY OF JOLIET
CCDD DISPOSAL PIP ANALYSIS

Spring Creek Phase I

Review of environmental databases and aerials and site observations indicate the following potentially impacted properties (PIPs):

East Ward Avenue – Adjacent to Railroad. Sample for Total 8 RCRA Metals, VOCs, SVOCs, PCBs.

Creek Crossings at Garnsey Ave., Landau Ave., Ohio St., Henderson Ave. and Abe. Street – Flood Waters – Sample for Total 8 RCRA Metals, VOCs, SVOCs, PCBs.

Abe Street at Route 6 and Route 6 from Henderson Ave. to Jackson – Auto Body and Vehicle Repair Shops – Sample for Total 8 RCRA Metals, VOCs, SVOCs and PCBs.

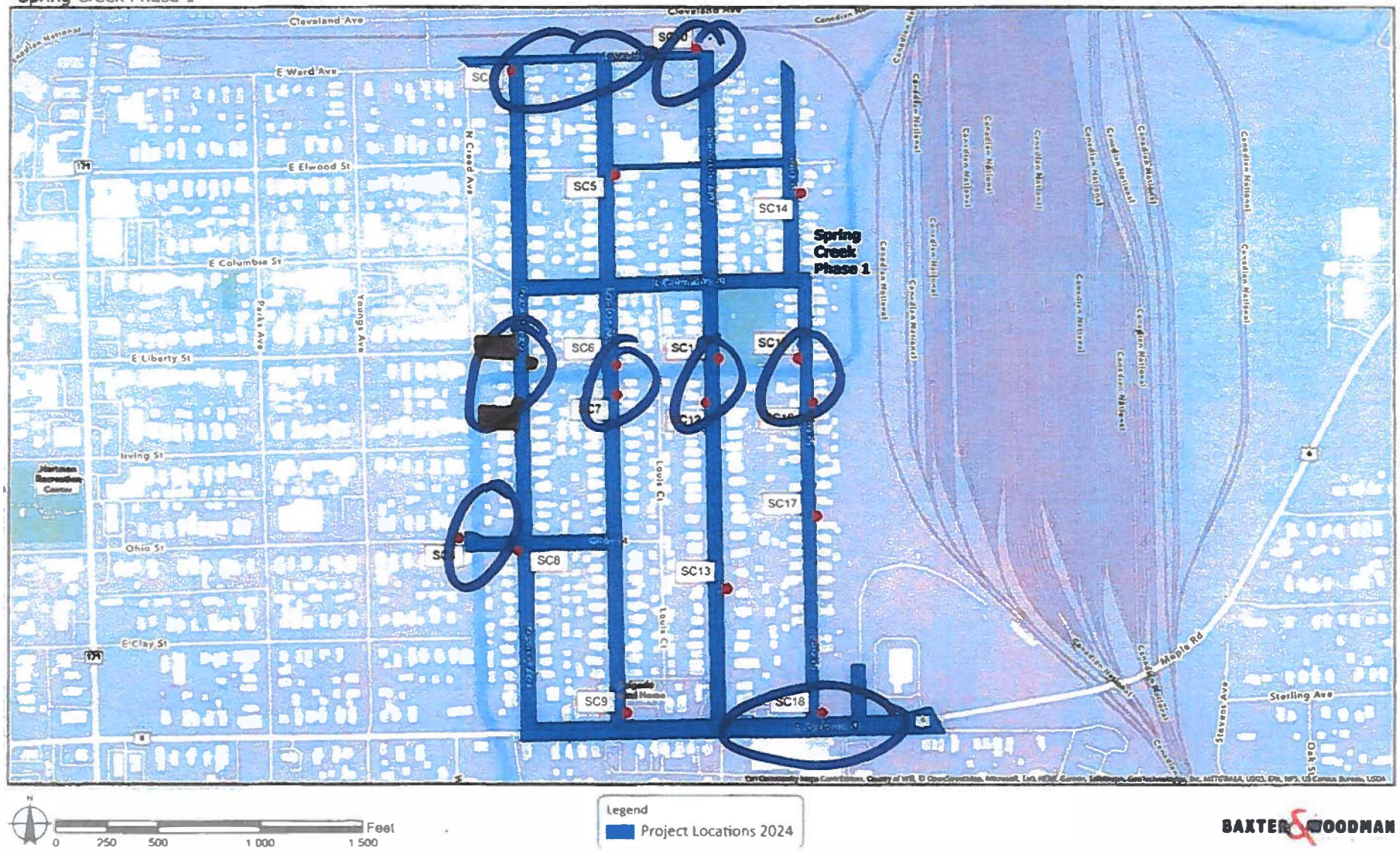
pH Test Results met MAC Table Requirements of 6.25 to 9.0

PIP Locations and pH tests results follow.

2024 WATER MAIN IMPROVEMENT AREAS

Spring Creek Phase 1

City of Joliet, Illinois



PIP Locations

Revision dated November 9, 2023

First Environmental Laboratories, Inc.

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September 29, 2023

Mr. Don Cassier
SEECO ENVIRONMENTAL SERVICES
7350 Duvan Drive
Tinley Park, IL 60477

Project ID: 13318E-SC
First Environmental File ID: 23-8353
Date Received: September 19, 2023

Dear Mr. Don Cassier:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922023-11: effective 08/29/2023 through 02/28/2024.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Neal E Cleghorn

Neal Cleghorn
Project Manager

First Environmental Laboratories, Inc.

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Case Narrative

SEECO ENVIRONMENTAL SERVICES

Lab File ID: **23-8353**

Project ID: **13318E-SC**

Date Received: **September 19, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected	
23-8353-001	SC1E 2'	09/18/23	13:45
23-8353-002	SC2E 3'	09/18/23	14:15
23-8353-003	SC3E 3'	09/18/23	14:45
23-8353-004	SC4E 2'	09/18/23	15:15
23-8353-005	SC5E 2'	09/18/23	16:00
23-8353-006	SC6E 2.5'	09/18/23	16:30
23-8353-007	SC7E 3'	09/18/23	17:00
23-8353-008	SC8E 3'	09/18/23	17:30
23-8353-009	SC9E 2'	09/18/23	18:00

Sample Batch Comments:

Method 5035 vials for soil VOCs were not received. Samples preserved in lab.

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Case Narrative

SEECO ENVIRONMENTAL SERVICES

Lab File ID: **23-8353**

Project ID: **13318E-SC**

Date Received: **September 19, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC1E 2'
Sample No: 23-8353-001
Date Collected: 09/18/23
Time Collected: 13:45
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 09/21/23				
Total Solids	83.05		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC1E 2'
Sample No: 23-8353-001

Date Collected: 09/18/23
Time Collected: 13:45
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23		Preparation Date: 09/20/23		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	103	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	380	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	591	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC1E 2'
Sample No: 23-8353-001

Date Collected: 09/18/23
Time Collected: 13:45
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 09/23/23		**Preparation Method 3540C** Preparation Date: 09/20/23		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC1E 2'
Sample No: 23-8353-001

Date Collected: 09/18/23
Time Collected: 13:45
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds	**Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23			Preparation Date: 09/20/23		
2,4,6-Trichlorophenol		< 330	330	ug/kg	
Polychlorinated biphenyls (PCBs)	**Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 09/28/23			Preparation Date: 09/20/23		
Aroclor 1016		< 80.0	80.0	ug/kg	
Aroclor 1221		< 80.0	80.0	ug/kg	
Aroclor 1232		< 80.0	80.0	ug/kg	
Aroclor 1242		< 80.0	80.0	ug/kg	
Aroclor 1248		< 80.0	80.0	ug/kg	
Aroclor 1254		< 160	160	ug/kg	
Aroclor 1260		< 160	160	ug/kg	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 09/25/23			Preparation Date: 09/22/23		
Arsenic		10.7	1.0	mg/kg	
Barium		143	0.5	mg/kg	
Cadmium		0.5	0.5	mg/kg	
Chromium		18.0	0.5	mg/kg	
Lead		83.8	0.5	mg/kg	
Selenium		< 1.0	1.0	mg/kg	
Silver		< 0.2	0.2	mg/kg	
Total Mercury	**Method: 7471B**				
Analysis Date: 09/22/23					
Mercury		0.19	0.05	mg/kg	
pH @ 25°C, 1:2	**Method: 9045D**				
Analysis Date: 09/25/23 11:30					
pH @ 25°C, 1:2		8.30		Units	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC2E 3'
Sample No: 23-8353-002

Date Collected: 09/18/23
Time Collected: 14:15
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 09/21/23				
Total Solids	88.55		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC2E 3'
Sample No: 23-8353-002

Date Collected: 09/18/23
Time Collected: 14:15
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B** Analysis Date: 09/21/23				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C** **Preparation Method 3540C** Analysis Date: 09/23/23 Preparation Date: 09/20/23				
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	150	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	342	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC2E 3'
Sample No: 23-8353-002

Date Collected: 09/18/23
Time Collected: 14:15
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23		Preparation Date: 09/20/23		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC2E 3'
Sample No: 23-8353-002

Date Collected: 09/18/23
Time Collected: 14:15
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds	**Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23			Preparation Date: 09/20/23		
2,4,6-Trichlorophenol		< 330	330	ug/kg	
Polychlorinated biphenyls (PCBs)	**Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 09/28/23			Preparation Date: 09/21/23		
Aroclor 1016		< 80.0	80.0	ug/kg	
Aroclor 1221		< 80.0	80.0	ug/kg	
Aroclor 1232		< 80.0	80.0	ug/kg	
Aroclor 1242		< 80.0	80.0	ug/kg	
Aroclor 1248		< 80.0	80.0	ug/kg	
Aroclor 1254		< 160	160	ug/kg	
Aroclor 1260		< 160	160	ug/kg	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 09/25/23			Preparation Date: 09/22/23		
Arsenic		8.6	1.0	mg/kg	
Barium		151	0.5	mg/kg	
Cadmium		< 0.5	0.5	mg/kg	
Chromium		17.4	0.5	mg/kg	
Lead		82.1	0.5	mg/kg	
Selenium		< 1.0	1.0	mg/kg	
Silver		< 0.2	0.2	mg/kg	
Total Mercury	**Method: 7471B**				
Analysis Date: 09/22/23					
Mercury		0.11	0.05	mg/kg	
pH @ 25°C, 1:2	**Method: 9045D**				
Analysis Date: 09/25/23 11:30					
pH @ 25°C, 1:2		8.49		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	09/18/23
Project ID:	13318E-SC	**Time Collected:**	14:45
Sample ID:	SC3E 3'	**Date Received:**	09/19/23
Sample No:	23-8353-003	**Date Reported:**	09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 09/21/23				
Total Solids	84.62		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC3E 3'
Sample No: 23-8353-003
Date Collected: 09/18/23
Time Collected: 14:45
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23		Preparation Date: 09/20/23		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	94	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC3E 3'
Sample No: 23-8353-003

Date Collected: 09/18/23
Time Collected: 14:45
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 09/23/23		**Preparation Method 3540C** Preparation Date: 09/20/23		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC3E 3'
Sample No: 23-8353-003

Date Collected: 09/18/23
Time Collected: 14:45
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds	**Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23			Preparation Date: 09/20/23		
2,4,6-Trichlorophenol		< 330	330	ug/kg	
Polychlorinated biphenyls (PCBs)	**Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 09/28/23			Preparation Date: 09/21/23		
Aroclor 1016		< 80.0	80.0	ug/kg	
Aroclor 1221		< 80.0	80.0	ug/kg	
Aroclor 1232		< 80.0	80.0	ug/kg	
Aroclor 1242		< 80.0	80.0	ug/kg	
Aroclor 1248		< 80.0	80.0	ug/kg	
Aroclor 1254		< 160	160	ug/kg	
Aroclor 1260		< 160	160	ug/kg	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 09/25/23			Preparation Date: 09/22/23		
Arsenic		11.7	1.0	mg/kg	
Barium		104	0.5	mg/kg	
Cadmium		< 0.5	0.5	mg/kg	
Chromium		17.1	0.5	mg/kg	
Lead		40.4	0.5	mg/kg	
Selenium		< 1.0	1.0	mg/kg	
Silver		< 0.2	0.2	mg/kg	
Total Mercury	**Method: 7471B**				
Analysis Date: 09/22/23					
Mercury		0.09	0.05	mg/kg	
pH @ 25°C, 1:2	**Method: 9045D**				
Analysis Date: 09/25/23 11:30					
pH @ 25°C, 1:2		8.31		Units	

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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • FirstEnv.com

Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC4E 2'
Sample No: 23-8353-004

Date Collected: 09/18/23
Time Collected: 15:15
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 09/21/23				
Total Solids	88.90		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC4E 2'
Sample No: 23-8353-004

Date Collected: 09/18/23
Time Collected: 15:15
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23		Preparation Date: 09/20/23		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	619	330	ug/kg	
Benzo(a)pyrene	693	90	ug/kg	
Benzo(b)fluoranthene	1,150	330	ug/kg	
Benzo(k)fluoranthene	437	330	ug/kg	
Benzo(ghi)perylene	683	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	729	330	ug/kg	
Dibenzo(a,h)anthracene	119	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC4E 2'
Sample No: 23-8353-004

Date Collected: 09/18/23
Time Collected: 15:15
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23		Preparation Date: 09/20/23		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	1,190	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	573	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	598	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	887	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC4E 2'
Sample No: 23-8353-004

Date Collected: 09/18/23
Time Collected: 15:15
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds	**Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23			Preparation Date: 09/20/23		
2,4,6-Trichlorophenol		< 330	330	ug/kg	
Polychlorinated biphenyls (PCBs)	**Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 09/28/23			Preparation Date: 09/21/23		
Aroclor 1016		< 80.0	80.0	ug/kg	
Aroclor 1221		< 80.0	80.0	ug/kg	
Aroclor 1232		< 80.0	80.0	ug/kg	
Aroclor 1242		< 80.0	80.0	ug/kg	
Aroclor 1248		< 80.0	80.0	ug/kg	
Aroclor 1254		< 160	160	ug/kg	
Aroclor 1260		< 160	160	ug/kg	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 09/25/23			Preparation Date: 09/22/23		
Arsenic		4.4	1.0	mg/kg	
Barium		52.2	0.5	mg/kg	
Cadmium		< 0.5	0.5	mg/kg	
Chromium		5.8	0.5	mg/kg	
Lead		52.9	0.5	mg/kg	
Selenium		< 1.0	1.0	mg/kg	
Silver		< 0.2	0.2	mg/kg	
Total Mercury	**Method: 7471B**				
Analysis Date: 09/22/23					
Mercury		< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2	**Method: 9045D**				
Analysis Date: 09/25/23 11:30					
pH @ 25°C, 1:2		8.10		Units	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC5E 2'
Sample No: 23-8353-005

Date Collected: 09/18/23
Time Collected: 16:00
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 09/21/23				
Total Solids	92.55		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC5E 2'
Sample No: 23-8353-005

Date Collected: 09/18/23
Time Collected: 16:00
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23		Preparation Date: 09/20/23		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	98	90	ug/kg	
Benzo(b)fluoranthene	< 330	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	454	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC5E 2'
Sample No: 23-8353-005

Date Collected: 09/18/23
Time Collected: 16:00
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 09/23/23		**Preparation Method 3540C** Preparation Date: 09/20/23		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC5E 2'
Sample No: 23-8353-005

Date Collected: 09/18/23
Time Collected: 16:00
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds	**Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23			Preparation Date: 09/20/23		
2,4,6-Trichlorophenol		< 330	330	ug/kg	
Polychlorinated biphenyls (PCBs)	**Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 09/28/23			Preparation Date: 09/21/23		
Aroclor 1016		< 80.0	80.0	ug/kg	
Aroclor 1221		< 80.0	80.0	ug/kg	
Aroclor 1232		< 80.0	80.0	ug/kg	
Aroclor 1242		< 80.0	80.0	ug/kg	
Aroclor 1248		< 80.0	80.0	ug/kg	
Aroclor 1254		< 160	160	ug/kg	
Aroclor 1260		< 160	160	ug/kg	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 09/25/23			Preparation Date: 09/22/23		
Arsenic		4.6	1.0	mg/kg	
Barium		69.4	0.5	mg/kg	
Cadmium		< 0.5	0.5	mg/kg	
Chromium		5.9	0.5	mg/kg	
Lead		130	0.5	mg/kg	
Selenium		< 1.0	1.0	mg/kg	
Silver		< 0.2	0.2	mg/kg	
Total Mercury	**Method: 7471B**				
Analysis Date: 09/22/23					
Mercury		< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2	**Method: 9045D**				
Analysis Date: 09/25/23 11:30					
pH @ 25°C, 1:2		8.70		Units	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	09/18/23
Project ID:	13318E-SC	**Time Collected:**	16:30
Sample ID:	SC6E 2.5'	**Date Received:**	09/19/23
Sample No:	23-8353-006	**Date Reported:**	09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 09/21/23				
Total Solids	80.24		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC6E 2.5'
Sample No: 23-8353-006

Date Collected: 09/18/23
Time Collected: 16:30
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23		Preparation Date: 09/20/23		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	369	330	ug/kg	
Benzo(a)pyrene	354	90	ug/kg	
Benzo(b)fluoranthene	493	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	410	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC6E 2.5'
Sample No: 23-8353-006

Date Collected: 09/18/23
Time Collected: 16:30
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23		Preparation Date: 09/20/23		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	664	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	955	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	541	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC6E 2.5'
Sample No: 23-8353-006

Date Collected: 09/18/23
Time Collected: 16:30
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds	**Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23			Preparation Date: 09/20/23		
2,4,6-Trichlorophenol		< 330	330	ug/kg	
Polychlorinated biphenyls (PCBs)	**Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 09/29/23			Preparation Date: 09/21/23		
Aroclor 1016		< 80.0	80.0	ug/kg	
Aroclor 1221		< 80.0	80.0	ug/kg	
Aroclor 1232		< 80.0	80.0	ug/kg	
Aroclor 1242		< 80.0	80.0	ug/kg	
Aroclor 1248		< 80.0	80.0	ug/kg	
Aroclor 1254		< 160	160	ug/kg	
Aroclor 1260		< 160	160	ug/kg	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 09/25/23			Preparation Date: 09/22/23		
Arsenic		14.4	1.0	mg/kg	
Barium		71.6	0.5	mg/kg	
Cadmium		< 0.5	0.5	mg/kg	
Chromium		13.4	0.5	mg/kg	
Lead		121	0.5	mg/kg	
Selenium		< 1.0	1.0	mg/kg	
Silver		0.6	0.2	mg/kg	
Total Mercury	**Method: 7471B**				
Analysis Date: 09/22/23					
Mercury		0.16	0.05	mg/kg	
pH @ 25°C, 1:2	**Method: 9045D**				
Analysis Date: 09/25/23 11:30					
pH @ 25°C, 1:2		8.23		Units	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC7E 3'
Sample No: 23-8353-007

Date Collected: 09/18/23
Time Collected: 17:00
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 09/21/23				
Total Solids	82.71		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC7E 3'
Sample No: 23-8353-007

Date Collected: 09/18/23
Time Collected: 17:00
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23		Preparation Date: 09/20/23		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	< 330	330	ug/kg	
Benzo(a)pyrene	207	90	ug/kg	
Benzo(b)fluoranthene	359	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	< 330	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	< 330	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC7E 3'
Sample No: 23-8353-007

Date Collected: 09/18/23
Time Collected: 17:00
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 09/23/23		**Preparation Method 3540C** Preparation Date: 09/20/23		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	< 330	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	< 330	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	< 330	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC7E 3'
Sample No: 23-8353-007

Date Collected: 09/18/23
Time Collected: 17:00
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds	**Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23			Preparation Date: 09/20/23		
2,4,6-Trichlorophenol		< 330	330	ug/kg	
Polychlorinated biphenyls (PCBs)	**Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 09/29/23			Preparation Date: 09/21/23		
Aroclor 1016		< 80.0	80.0	ug/kg	
Aroclor 1221		< 80.0	80.0	ug/kg	
Aroclor 1232		< 80.0	80.0	ug/kg	
Aroclor 1242		< 80.0	80.0	ug/kg	
Aroclor 1248		< 80.0	80.0	ug/kg	
Aroclor 1254		< 160	160	ug/kg	
Aroclor 1260		< 160	160	ug/kg	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 09/25/23			Preparation Date: 09/22/23		
Arsenic		11.7	1.0	mg/kg	
Barium		72.0	0.5	mg/kg	
Cadmium		< 0.5	0.5	mg/kg	
Chromium		15.6	0.5	mg/kg	
Lead		85.4	0.5	mg/kg	
Selenium		< 1.0	1.0	mg/kg	
Silver		< 0.2	0.2	mg/kg	
Total Mercury	**Method: 7471B**				
Analysis Date: 09/22/23					
Mercury		< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2	**Method: 9045D**				
Analysis Date: 09/25/23 11:30					
pH @ 25°C, 1:2		8.42		Units	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC8E 3'
Sample No: 23-8353-008

Date Collected: 09/18/23
Time Collected: 17:30
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 09/21/23				
Total Solids	84.17		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC8E 3'
Sample No: 23-8353-008

Date Collected: 09/18/23
Time Collected: 17:30
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23		Preparation Date: 09/20/23		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	808	330	ug/kg	
Benzo(a)pyrene	894	90	ug/kg	
Benzo(b)fluoranthene	1,360	330	ug/kg	
Benzo(k)fluoranthene	477	330	ug/kg	
Benzo(ghi)perylene	693	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	910	330	ug/kg	
Dibenzo(a,h)anthracene	170	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC8E 3'
Sample No: 23-8353-008

Date Collected: 09/18/23
Time Collected: 17:30
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C** Analysis Date: 09/23/23		**Preparation Method 3540C** Preparation Date: 09/20/23		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	1,800	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	715	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	931	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	1,240	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC8E 3'
Sample No: 23-8353-008

Date Collected: 09/18/23
Time Collected: 17:30
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds	**Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23			Preparation Date: 09/20/23		
2,4,6-Trichlorophenol		< 330	330	ug/kg	
Polychlorinated biphenyls (PCBs)	**Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 09/29/23			Preparation Date: 09/21/23		
Aroclor 1016		< 80.0	80.0	ug/kg	
Aroclor 1221		< 80.0	80.0	ug/kg	
Aroclor 1232		< 80.0	80.0	ug/kg	
Aroclor 1242		< 80.0	80.0	ug/kg	
Aroclor 1248		< 80.0	80.0	ug/kg	
Aroclor 1254		< 160	160	ug/kg	
Aroclor 1260		< 160	160	ug/kg	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 09/25/23			Preparation Date: 09/22/23		
Arsenic		13.7	1.0	mg/kg	
Barium		120	0.5	mg/kg	
Cadmium		< 0.5	0.5	mg/kg	
Chromium		15.4	0.5	mg/kg	
Lead		48.5	0.5	mg/kg	
Selenium		< 1.0	1.0	mg/kg	
Silver		< 0.2	0.2	mg/kg	
Total Mercury	**Method: 7471B**				
Analysis Date: 09/22/23					
Mercury		0.11	0.05	mg/kg	
pH @ 25°C, 1:2	**Method: 9045D**				
Analysis Date: 09/25/23 11:30					
pH @ 25°C, 1:2		8.76		Units	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC9E 2'
Sample No: 23-8353-009

Date Collected: 09/18/23
Time Collected: 18:00
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, Total **Method: 2540G 2011**				
Analysis Date: 09/21/23				
Total Solids	89.48		%	
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Acetone	< 200	200	ug/kg	
Benzene	< 5.0	5.0	ug/kg	
Bromodichloromethane	< 5.0	5.0	ug/kg	
Bromoform	< 5.0	5.0	ug/kg	
Bromomethane	< 10.0	10.0	ug/kg	
2-Butanone (MEK)	< 100	100	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
Carbon tetrachloride	< 5.0	5.0	ug/kg	
Chlorobenzene	< 5.0	5.0	ug/kg	
Chlorodibromomethane	< 5.0	5.0	ug/kg	
Chloroethane	< 10.0	10.0	ug/kg	
Chloroform	< 5.0	5.0	ug/kg	
Chloromethane	< 10.0	10.0	ug/kg	
1,1-Dichloroethane	< 5.0	5.0	ug/kg	
1,2-Dichloroethane	< 5.0	5.0	ug/kg	
1,1-Dichloroethene	< 5.0	5.0	ug/kg	
cis-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
trans-1,2-Dichloroethene	< 5.0	5.0	ug/kg	
1,2-Dichloropropane	< 5.0	5.0	ug/kg	
cis-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
trans-1,3-Dichloropropene	< 4.0	4.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
2-Hexanone	< 10.0	10.0	ug/kg	
Methyl-tert-butylether (MTBE)	< 5.0	5.0	ug/kg	
4-Methyl-2-pentanone (MIBK)	< 10.0	10.0	ug/kg	
Methylene chloride	< 20.0	20.0	ug/kg	
Styrene	< 5.0	5.0	ug/kg	
1,1,2,2-Tetrachloroethane	< 5.0	5.0	ug/kg	
Tetrachloroethene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
1,1,1-Trichloroethane	< 5.0	5.0	ug/kg	
1,1,2-Trichloroethane	< 5.0	5.0	ug/kg	
Trichloroethene	< 5.0	5.0	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC9E 2'
Sample No: 23-8353-009

Date Collected: 09/18/23
Time Collected: 18:00
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Volatile Organic Compounds **Method: 5035A/8260B**				
Analysis Date: 09/21/23				
Vinyl acetate	< 10.0	10.0	ug/kg	
Vinyl chloride	< 10.0	10.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23		Preparation Date: 09/21/23		
Acenaphthene	< 330	330	ug/kg	
Acenaphthylene	< 330	330	ug/kg	
Anthracene	< 330	330	ug/kg	
Benzidine	< 330	330	ug/kg	
Benzo(a)anthracene	402	330	ug/kg	
Benzo(a)pyrene	505	90	ug/kg	
Benzo(b)fluoranthene	755	330	ug/kg	
Benzo(k)fluoranthene	< 330	330	ug/kg	
Benzo(ghi)perylene	366	330	ug/kg	
Benzoic acid	< 330	330	ug/kg	
Benzyl alcohol	< 330	330	ug/kg	
bis(2-Chloroethoxy)methane	< 330	330	ug/kg	
bis(2-Chloroethyl)ether	< 330	330	ug/kg	
bis(2-Chloroisopropyl)ether	< 330	330	ug/kg	
bis(2-Ethylhexyl)phthalate	< 330	330	ug/kg	
4-Bromophenyl phenyl ether	< 330	330	ug/kg	
Butyl benzyl phthalate	< 330	330	ug/kg	
Carbazole	< 330	330	ug/kg	
4-Chloroaniline	< 330	330	ug/kg	
4-Chloro-3-methylphenol	< 330	330	ug/kg	
2-Chloronaphthalene	< 330	330	ug/kg	
2-Chlorophenol	< 330	330	ug/kg	
4-Chlorophenyl phenyl ether	< 330	330	ug/kg	
Chrysene	444	330	ug/kg	
Dibenzo(a,h)anthracene	< 90	90	ug/kg	
Dibenzofuran	< 330	330	ug/kg	
1,2-Dichlorobenzene	< 330	330	ug/kg	
1,3-Dichlorobenzene	< 330	330	ug/kg	
1,4-Dichlorobenzene	< 330	330	ug/kg	
3,3'-Dichlorobenzidine	< 660	660	ug/kg	
2,4-Dichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC9E 2'
Sample No: 23-8353-009

Date Collected: 09/18/23
Time Collected: 18:00
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Semi-Volatile Compounds **Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23		Preparation Date: 09/21/23		
Diethyl phthalate	< 330	330	ug/kg	
2,4-Dimethylphenol	< 330	330	ug/kg	
Dimethyl phthalate	< 330	330	ug/kg	
Di-n-butyl phthalate	< 330	330	ug/kg	
4,6-Dinitro-2-methylphenol	< 1,600	1600	ug/kg	
2,4-Dinitrophenol	< 1,600	1600	ug/kg	
2,4-Dinitrotoluene	< 250	250	ug/kg	
2,6-Dinitrotoluene	< 260	260	ug/kg	
Di-n-octylphthalate	< 330	330	ug/kg	
Fluoranthene	773	330	ug/kg	
Fluorene	< 330	330	ug/kg	
Hexachlorobenzene	< 330	330	ug/kg	
Hexachlorobutadiene	< 330	330	ug/kg	
Hexachlorocyclopentadiene	< 330	330	ug/kg	
Hexachloroethane	< 330	330	ug/kg	
Indeno(1,2,3-cd)pyrene	361	330	ug/kg	
Isophorone	< 330	330	ug/kg	
2-Methylnaphthalene	< 330	330	ug/kg	
2-Methylphenol	< 330	330	ug/kg	
3 & 4-Methylphenol	< 330	330	ug/kg	
Naphthalene	< 330	330	ug/kg	
2-Nitroaniline	< 1,600	1600	ug/kg	
3-Nitroaniline	< 1,600	1600	ug/kg	
4-Nitroaniline	< 1,600	1600	ug/kg	
Nitrobenzene	< 260	260	ug/kg	
2-Nitrophenol	< 1,600	1600	ug/kg	
4-Nitrophenol	< 1,600	1600	ug/kg	
n-Nitrosodi-n-propylamine	< 90	90	ug/kg	
n-Nitrosodimethylamine	< 330	330	ug/kg	
n-Nitrosodiphenylamine	< 330	330	ug/kg	
Pentachlorophenol	< 330	330	ug/kg	
Phenanthrene	< 330	330	ug/kg	
Phenol	< 330	330	ug/kg	
Pyrene	590	330	ug/kg	
Pyridine	< 330	330	ug/kg	
1,2,4-Trichlorobenzene	< 330	330	ug/kg	
2,4,5-Trichlorophenol	< 330	330	ug/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 13318E-SC
Sample ID: SC9E 2'
Sample No: 23-8353-009

Date Collected: 09/18/23
Time Collected: 18:00
Date Received: 09/19/23
Date Reported: 09/29/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Semi-Volatile Compounds	**Method: 8270C**		**Preparation Method 3540C**		
Analysis Date: 09/23/23			Preparation Date: 09/21/23		
2,4,6-Trichlorophenol		< 330	330	ug/kg	
Polychlorinated biphenyls (PCBs)	**Method: 8082**		**Preparation Method 3540C**		
Analysis Date: 09/29/23			Preparation Date: 09/21/23		
Aroclor 1016		< 80.0	80.0	ug/kg	
Aroclor 1221		< 80.0	80.0	ug/kg	
Aroclor 1232		< 80.0	80.0	ug/kg	
Aroclor 1242		< 80.0	80.0	ug/kg	
Aroclor 1248		< 80.0	80.0	ug/kg	
Aroclor 1254		< 160	160	ug/kg	
Aroclor 1260		< 160	160	ug/kg	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 09/25/23			Preparation Date: 09/22/23		
Arsenic		5.8	1.0	mg/kg	
Barium		66.2	0.5	mg/kg	
Cadmium		< 0.5	0.5	mg/kg	
Chromium		27.3	0.5	mg/kg	
Lead		32.5	0.5	mg/kg	
Selenium		< 1.0	1.0	mg/kg	
Silver		< 0.2	0.2	mg/kg	
Total Mercury	**Method: 7471B**				
Analysis Date: 09/22/23					
Mercury		< 0.05	0.05	mg/kg	
pH @ 25°C, 1:2	**Method: 9045D**				
Analysis Date: 09/25/23 11:30					
pH @ 25°C, 1:2		8.13		Units	

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IEPA Accreditation #100292
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CHAIN OF CUSTODY RECORD

Company Name: SEECO			
Street Address:			
City:	State:	Zip:	
Phone:	e-Mail: cassier@seeco.com		
Send Report To:	Hardcopy ☐	PDF e-Mail: ■	
Sampled By: RO			

Project I.D: 133188E-SC

P.O #:

Enter analyses required on the lines to the left. Place an "X" in the box below to indicate which samples require what analysis.

Date/Time Taken	Sample Description	Matrix*	pH	Total 8 RCRA Metals	VOCs	SVOCs	PCBs			HOLD-Do not analyze	Comments	Lab I.D.
9/18/23 1:45	SC1E 2'	S	X	X	X	X	X				23-8353-	001
2:05	SC2E 3'		X	X	X	X	X				-	002
2:45	SC3E 3'		X	X	X	X	X				-	003
3:15	SC4E 2'		X	X	X	X	X				-	004
4:00	SC5E 2'		X	X	X	X	X				-	005
4:30	SC6E 2.5'		X	X	X	X	X				-	006
5:00	SC7E 3'		X	X	X	X	X				-	007
5:30	SC8E 3'		X	X	X	X	X				-	008
LV 6:00	SC9E 2'		X	X	X	X	X				-	009

FOR LAB USE ONLY:
Cooler Temperature: 0 1-6°C Yes ■ No ☐ 5 °C
Received within 6 hrs of collection: _____
Ice Present: Yes ■ No ☐

FOR LAB COURIER USE ONLY:
Sample Refrigerated: Yes _____ No _____
Refrigerator Temperature: _____ °C

Program: ☐ TACO/SRP ■ CCDD ☐ NPDES ☐ LUST ☐ SDWA

*Matrix Code Key: **DW**-drinking water **GW**-groundwater **WW**- wastewater **S**-soil **SL**-sludge **WIPE**-wipe **O**-other

Notes and Special Instructions: Extra 10%

Relinquished By:	Date/Time: 9/19/23 5PM	Received By:	Date/Time: 9/19/23 1030
Relinquished By:	Date/Time:	Received By:	Date/Time:

Rev 10/19

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October 25, 2023

Mr. Don Cassier
SEECO ENVIRONMENTAL SERVICES
7350 Duvan Drive
Tinley Park, IL 60477

Project ID: 133185C
First Environmental File ID: 23-9365
Date Received: October 18, 2023

Dear Mr. Don Cassier:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922023-11: effective 08/29/2023 through 02/28/2024.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Neal E Cleghorn

Neal Cleghorn
Project Manager

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Case Narrative

SEECO ENVIRONMENTAL SERVICES

Lab File ID: **23-9365**

Project ID: **133185C**

Date Received: **October 18, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected	
23-9365-001	SC5E1 2'	10/16/23	13:00
23-9365-002	SC5E2 2'	10/16/23	13:20
23-9365-003	SC6E1 2.5'	10/16/23	14:00
23-9365-004	SC6E2 2.5'	10/16/23	14:15
23-9365-005	SC6E3 2.5'	10/16/23	14:40
23-9365-006	SC8E1 3'	10/16/23	15:05
23-9365-007	SC8E2 2'	10/16/23	15:20
23-9365-008	SC9E1 2'	10/16/23	16:00
23-9365-009	SC9E2 2'	10/16/23	16:15

Sample Batch Comments:

Sample acceptance criteria were met.

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Case Narrative

SEECO ENVIRONMENTAL SERVICES

Lab File ID: **23-9365**

Project ID: **133185C**

Date Received: **October 18, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 133185C
Sample ID: SC5E1 2'
Sample No: 23-9365-001

Date Collected: 10/16/23
Time Collected: 13:00
Date Received: 10/18/23
Date Reported: 10/25/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Solids, total	**Method: 2540G 2011**				
Analysis Date: 10/23/23					
Total Solids		81.14		%	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/24/23			Preparation Date: 10/23/23		
Lead		51.1	0.5	mg/kg	
TCLP Extraction	**Method: 1311**				
Analysis Date: 10/23/23					
TCLP Extraction		Complete			
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 10/25/23			Preparation Date: 10/24/23		
Lead		< 0.005	0.005	mg/L	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 133185C
Sample ID: SC5E2 2'
Sample No: 23-9365-002

Date Collected: 10/16/23
Time Collected: 13:20
Date Received: 10/18/23
Date Reported: 10/25/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Solids, total	**Method: 2540G 2011**				
Analysis Date: 10/23/23					
Total Solids		85.91		%	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/24/23			Preparation Date: 10/23/23		
Lead		104	0.5	mg/kg	
TCLP Extraction	**Method: 1311**				
Analysis Date: 10/23/23					
TCLP Extraction		Complete			
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 10/25/23			Preparation Date: 10/24/23		
Lead		< 0.005	0.005	mg/L	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 133185C
Sample ID: SC6E1 2.5'
Sample No: 23-9365-003

Date Collected: 10/16/23
Time Collected: 14:00
Date Received: 10/18/23
Date Reported: 10/25/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Solids, total	**Method: 2540G 2011**				
Analysis Date: 10/23/23					
Total Solids		83.61		%	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/24/23			Preparation Date: 10/23/23		
Arsenic		8.3	1.0	mg/kg	
Lead		81.3	0.5	mg/kg	
TCLP Extraction	**Method: 1311**				
Analysis Date: 10/23/23					
TCLP Extraction		Complete			
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 10/25/23			Preparation Date: 10/24/23		
Lead		< 0.005	0.005	mg/L	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 133185C
Sample ID: SC6E2 2.5'
Sample No: 23-9365-004

Date Collected: 10/16/23
Time Collected: 14:15
Date Received: 10/18/23
Date Reported: 10/25/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Solids, total	**Method: 2540G 2011**				
Analysis Date: 10/23/23					
Total Solids		82.10		%	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/24/23			Preparation Date: 10/23/23		
Arsenic		6.8	1.0	mg/kg	
Lead		101	0.5	mg/kg	
TCLP Extraction	**Method: 1311**				
Analysis Date: 10/23/23					
TCLP Extraction		Complete			
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 10/25/23			Preparation Date: 10/24/23		
Lead		< 0.005	0.005	mg/L	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 133185C
Sample ID: SC6E3 2.5'
Sample No: 23-9365-005

Date Collected: 10/16/23
Time Collected: 14:40
Date Received: 10/18/23
Date Reported: 10/25/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Solids, total	**Method: 2540G 2011**				
Analysis Date: 10/23/23					
Total Solids		89.09		%	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/24/23			Preparation Date: 10/23/23		
Arsenic		2.5	1.0	mg/kg	
Lead		17.5	0.5	mg/kg	
TCLP Extraction	**Method: 1311**				
Analysis Date: 10/23/23					
TCLP Extraction		Complete			
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 10/25/23			Preparation Date: 10/24/23		
Lead		< 0.005	0.005	mg/L	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	10/16/23
Project ID:	133185C	**Time Collected:**	15:05
Sample ID:	SC8E1 3'	**Date Received:**	10/18/23
Sample No:	23-9365-006	**Date Reported:**	10/25/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, total **Method: 2540G 2011**				
Analysis Date: 10/23/23				
Total Solids	88.89		%	
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/24/23		Preparation Date: 10/23/23		
Arsenic	4.8	1.0	mg/kg	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	10/16/23
Project ID:	133185C	**Time Collected:**	15:20
Sample ID:	SC8E2 2'	**Date Received:**	10/18/23
Sample No:	23-9365-007	**Date Reported:**	10/25/23

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
Solids, total **Method: 2540G 2011**				
Analysis Date: 10/23/23				
Total Solids	87.36		%	
Total Metals **Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/24/23		Preparation Date: 10/23/23		
Arsenic	1.4	1.0	mg/kg	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 133185C
Sample ID: SC9E1 2'
Sample No: 23-9365-008

Date Collected: 10/16/23
Time Collected: 16:00
Date Received: 10/18/23
Date Reported: 10/25/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Solids, total	**Method: 2540G 2011**				
Analysis Date: 10/23/23					
Total Solids		83.38		%	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/24/23			Preparation Date: 10/23/23		
Chromium		15.7	0.5	mg/kg	
TCLP Extraction	**Method: 1311**				
Analysis Date: 10/23/23					
TCLP Extraction		Complete			
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 10/25/23			Preparation Date: 10/24/23		
Chromium		< 0.005	0.005	mg/L	

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Analytical Report

Client: SEECO ENVIRONMENTAL SERVICES
Project ID: 133185C
Sample ID: SC9E2 2'
Sample No: 23-9365-009

Date Collected: 10/16/23
Time Collected: 16:15
Date Received: 10/18/23
Date Reported: 10/25/23

Results are reported on a dry weight basis.

Analyte		Result	R.L.	Units	Flags
Solids, total	**Method: 2540G 2011**				
Analysis Date: 10/23/23					
Total Solids		82.36		%	
Total Metals	**Method: 6010C**		**Preparation Method 3050B**		
Analysis Date: 10/24/23			Preparation Date: 10/23/23		
Chromium		18.8	0.5	mg/kg	
TCLP Extraction	**Method: 1311**				
Analysis Date: 10/23/23					
TCLP Extraction		Complete			
TCLP Metals Method 1311	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 10/25/23			Preparation Date: 10/24/23		
Chromium		< 0.005	0.005	mg/L	

CHAIN OF CUSTODY RECORD

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Naperville, IL 60563
Phone: (630)778-1200 * Fax (630)778-1233
E-Mail: firstinfo@firstenv.com
IEPA Accreditation #100292
www.firstenv.com

Company Name: SEECO			
Street Address:			
City:		State:	Zip:
Phone:	e-Mail: cassier@seeco.com		
Send Report To:		Hardcopy: ☐	PDF e-Mail: ■
Sampled By: ROS			

Project I.D.: 13318 SC

P.O. #:

Enter analyses required on the lines to the left. Place an "X" in the box below to indicate which samples require what analysis.

Date/Time Taken	Sample Description	Matrix*	pH	Total 8 RCRA Metals	VOCs TOTAL chromium	SVOCs TCLP chromium	TOTAL LEAD	TCLP LEAD	ARSENIC	HOLD-Do not analyze	Comments	Lab I.D.
10/16/23 1:00	SC5E1 2'	S					X	X			23-93105-	001
1:20	SC5E2 2'						X	X				002
2:00	SC6E1 2.5'						X	X	X			003
2:15	SC6E2 2.5'						X	X	X			004
2:40	SC6E3 2.5'						X	X	X			005
3:05	SC8E1 3'								X			006
3:20	SC8E2 3'								X			007
4:00	SC9E1 2'				X	X						008
4:15	SC9E2 2'					X						009

FOR LAB USE ONLY:
Cooler Temperature: 0.1-6°C Yes X No ___ 5 °C
Received within 6 hrs of collection: ___
Ice Present: Yes X No ___

FOR LAB COURIER USE ONLY:
Sample Refrigerated: Yes ___ No ___
Refrigerator Temperature: ___ °C

Program: ☐ TACO/SRP ■ CCDD ☐ NPDES ☐ LUST ☐ SDWA

*Matrix Code Key: **DW**-drinking water **GW**-groundwater **WW**- wastewater **S**-soil **SL**-sludge **WIPE**-wipe **O**-other

Notes and Special Instructions:

Relinquished By:	Date/Time: 10/18/23	Received By:	Date/Time: 10/18/23 1010
Relinquished By:	Date/Time:	Received By:	Date/Time:

Rev 10/19

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November 06, 2023

Mr. Don Cassier
SEECO ENVIRONMENTAL SERVICES
7350 Duvan Drive
Tinley Park, IL 60477

Project ID: 13318E-SC
First Environmental File ID: 23-9728
Date Received: September 19, 2023

Dear Mr. Don Cassier:

The above referenced project was analyzed as directed on the enclosed chain of custody record.

All Quality Control criteria as outlined in the methods and current IL ELAP/NELAP have been met unless otherwise noted. QA/QC documentation and raw data will remain on file for future reference. Our accreditation number is 100292 and our current certificate is number:

1002922023-11: effective 08/29/2023 through 02/28/2024.

I thank you for the opportunity to be of service to you and look forward to working with you again in the future. Should you have any questions regarding any of the enclosed analytical data or need additional information, please contact me at (630) 778-1200.

Sincerely,

Neal Cleghorn
Project Manager

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Case Narrative

SEECO ENVIRONMENTAL SERVICES

Lab File ID: **23-9728**

Project ID: **13318E-SC**

Date Received: **September 19, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The results in this report apply to the samples in the following table:

Laboratory Sample ID	Client Sample Identifier	Date/Time Collected	
23-9728-001	SC5E 2'	09/18/23	16:00
23-9728-002	SC9E 2'	09/18/23	16:00

Sample Batch Comments:

Sample acceptance criteria were met.

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Case Narrative

SEECO ENVIRONMENTAL SERVICES

Lab File ID: **23-9728**

Project ID: **13318E-SC**

Date Received: **September 19, 2023**

All quality control criteria, as outlined in the methods, have been met except as noted below or on the following analytical report.

The following is a definition of flags that may be used in this report:

Flag	Description	Flag	Description
A	Method holding time is 15 minutes from collection. Lab analysis was performed as soon as possible.		
B	Analyte was found in the method blank.	L	LCS recovery outside control limits.
<	Analyte not detected at or above the reporting limit.	M	MS recovery outside control limits; LCS acceptable.
C	Sample received in an improper container for this test.	P	Chemical preservation pH adjusted in lab.
D	Surrogates diluted out; recovery not available.	Q	Result was determined by a GC/MS database search.
E	Estimated result; concentration exceeds calibration range.	S	Analysis was subcontracted to another laboratory.
G	Surrogate recovery outside control limits.	T	Result is less than three times the MDL value.
H	Analysis or extraction holding time exceeded.	W	Reporting limit elevated due to sample matrix.
I	ICVS % rec outside 95-105% but within 90-110%		
J	Estimated result; concentration is less than routine RL but greater than MDL.	N	Analyte is not part of our NELAC accreditation or accreditation may not be available for this parameter.
RL	Routine Reporting Limit (Lowest amount that can be detected when routine weights/volumes are used without dilution.)	ND	Analyte was not detected using a library search routine; No calibration standard was analyzed.

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	09/18/23
Project ID:	13318E-SC	**Time Collected:**	16:00
Sample ID:	SC5E 2'	**Date Received:**	09/19/23
Sample No:	23-9728-001	**Date Reported:**	11/06/23

Analyte		Result	R.L.	Units	Flags
SPLP Extraction	**Method: 1312**				
Analysis Date: 10/31/23					
SPLP Metals Extraction		Complete			
SPLP Metals Method 1312	**Method: 6010C**		**Preparation Method 3010A**		
Analysis Date: 11/03/23			Preparation Date: 11/02/23		
Lead		0.061	0.005	mg/L	

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Analytical Report

Client:	SEECO ENVIRONMENTAL SERVICES	**Date Collected:**	09/18/23
Project ID:	13318E-SC	**Time Collected:**	16:00
Sample ID:	SC9E 2'	**Date Received:**	09/19/23
Sample No:	23-9728-002	**Date Reported:**	11/06/23

Analyte		Result	R.L.	Units	Flags
TCLP Extraction Analysis Date: 10/31/23	**Method: 1311**				
TCLP Extraction		Complete			
TCLP Metals Method 1311 Analysis Date: 11/03/23	**Method: 6010C**		**Preparation Method 3010A** Preparation Date: 11/02/23		
Chromium		< 0.005	0.005	mg/L	

CHAIN OF CUSTODY RECORD

Page ___ of ___ Pgs

First Environmental Laboratories, Inc.

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Naperville, IL 60563
Phone: (630)778-1200 * Fax (630)778-1233
E-Mail: firstinfo@firstenv.com
IEPA Accreditation #100292
www.firstenv.com

Company Name: SEECO
Street Address:
City: State: Zip.
Phone: e-Mail: cassier@seeco.com
Send Report To: Hardcopy ☐ PDF e-Mail ☒
Sampled By: RO

Project I D 133186-SC
P O

Enter analyses required on the lines to the left. Place an "X" in the box below to indicate which samples require what analysis.

Date/Time Taken	Sample Description	Matrix*	pH	Total 8 RCRA Metals	VOCs	SVOCs	PCBs	SPLP-Lead	TCLP-Cr added 10/10 #3	HOLD-Do not analyze	Comments	Lab I.D.
9/18/23	SC1E 2'	S	X	X		X					23-8353	-001
	SC2E 3'		X	X			X					-002
												-003
												-004
	SC5E 2'		X			X		X			23-9728-001	-005
	SC6E 2.5'		X	X	X	X						-006
	SC7E 3'		X		X	X	X					-007
					X	X	X					-008
	9E 2'		X	X	X	X	X		X		-002	-009

FOR LAB USE ONLY:
Cooler Temperature: 0 1-6°C Yes ☒ No ☐ 5 °C
Received within 6 hrs of collection ☐ ☐
Ice Present: Yes ☒ No ☐

FOR LAB COURIER USE ONLY:
Sample Refrigerated: Yes ☐ No ☐
Refrigerator Temperature: ☐ °C

Program: ☐ TACO/SRP ☒ CCDD ☐ NPDES ☐ LUST ☐ SDWA

*Matrix Code Key: DW-drinking water GW-groundwater WW- wastewater S-soil SL-sludge WIPE-wipe O-other

Notes and Special Instructions: Extra 10%

Relinquished By:	Date/Time: 9/19/23	Received By:	Date/Time: 9/19/23 1036
Relinquished By:	Date/Time:	Received By:	Date/Time:

Rev 10/19

joliet sc

prepared for:
Ref:

2023-08-07

Environmental Radius Report

NETRONLINE

2055 E. Rio Salado Pkwy
Tempe, AZ 85381
480-967-6752

Summary

Federal

	< 1/4	1/4 - 1/2	1/2 - 1
Lists of Federal NPL (Superfund) sites	0	0	0
Lists of Federal Delisted NPL sites	0	0	-
Lists of Federal sites subject to CERCLA removals and CERCLA orders	0	0	-
Lists of Federal CERCLA sites with NFRAP	0	0	-
Lists of Federal RCRA facilities undergoing Corrective Action	0	0	0
Lists of Federal RCRA TSD facilities	0	0	-
Lists of Federal RCRA generators	0	-	-
Federal institutional control/engineering control registries	0	-	-
Federal ERNS list	0	-	-

State

	< 1/4	1/4 - 1/2	1/2 - 1
Lists of state and tribal Superfund equivalent sites	0	0	0
Lists of state and tribal hazardous waste facilities	1	2	-
Lists of state and tribal landfills and solid waste disposal facilities	0	0	-
Lists of state and tribal leaking storage tanks	0	4	-
Lists of state and tribal registered storage tanks	0	-	-
State and tribal institutional control/engineering control registries	0	-	-
Lists of state and tribal voluntary cleanup sites	0	1	-
Lists of state and tribal brownfields sites	0	0	-

Other

	< 1/4	1/4 - 1/2	1/2 - 1
State and/or tribal lists of permitted facilities	3	-	-
Resource Conservation and Recovery Act Information (RCRAInfo)	0	6	-
U.S. EPA Underground Storage Tanks (UST)	0	-	-
U.S. EPA Toxic Release Inventory System (TRIS)	0	1	-

Lists of Federal NPL (Superfund) sites

The National Priorities List (NPL) is the list of sites of national priority among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States and its territories. The NPL is intended primarily to guide the EPA in determining which sites warrant further investigation. The NPL is updated periodically, as mandated by CERCLA.

There were no Federal NPL sites found within a one-mile radius of the target property.

Lists of Federal Delisted NPL sites

The EPA may delete a final NPL site if it determines that no further response is required to protect human health or the environment. Under Section 300.425(e) of the NCP (55 FR 8845, March 8, 1990), a site may be deleted when no further response is appropriate if EPA determines that one of the following criteria has been met: 1) EPA, in conjunction with the state, has determined that responsible parties have implemented all appropriate response action required, 2) EPA, in consultation with the state, has determined that all appropriate Superfund-financed responses under CERCLA have been implemented and that no further response by responsible parties is appropriate, 3) A remedial investigation/feasibility study (RI/FS) has shown that the release poses no significant threat to public health or the environment and, therefore, remedial measures are not appropriate.

There were no Federal Delisted NPL sites found within a half-mile radius of the target property.

Lists of Federal sites subject to CERCLA removals and CERCLA orders

CERCLA identifies the classes of parties liable under CERCLA for the cost of responding to releases of hazardous substances. In addition, CERCLA contains provisions specifying when Federal installations must report releases of hazardous substances and the cleanup procedures they must follow. Executive Order No. 12580, Superfund Implementation, delegates response authorities to EPA and the Coast Guard. Generally, the head of the Federal agency has the delegated authority to address releases at the Federal facilities in its jurisdiction.

There were no Federal sites subject to CERCLA removals and/or orders found within a half-mile radius of the target property.

Lists of Federal CERCLA sites with NFRAP

No Further Remedial Action Planned (NFRAP) is a decision made as part of the Superfund remedial site evaluation process to denote that further remedial assessment activities are not required and that the facility/site does not pose a threat to public health or the environment sufficient to qualify for placement on the National Priorities List (NPL) based on currently available information. These facilities/sites may be re-evaluated if EPA receives new information or learns that site conditions have changed. A NFRAP decision does not mean the facility/site is free of contamination and does not preclude the facility/site from being addressed under another federal, state or tribal cleanup program.

There were no Federal CERCLA sites with No Further Remedial Action Planned (NFRAP) decisions found within a half-mile radius of the target property.

Lists of Federal RCRA facilities undergoing Corrective Action

Corrective action is a requirement under the Resource Conservation and Recovery Act (RCRA) that facilities that treat, store or dispose of hazardous wastes investigate and cleanup hazardous releases into soil, ground water, surface water and air. Corrective action is principally implemented through RCRA permits and orders. RCRA permits issued to TSDFs must include provisions for corrective action as well as financial assurance to cover the costs of implementing those cleanup measures. In addition to the EPA, 44 states and territories are authorized to run the Corrective Action program.

There were no Federal RCRA facilities undergoing corrective action(s) found within a one-mile radius of the target property.

Lists of Federal RCRA TSD facilities

The final link in RCRA's cradle-to-grave concept is the treatment, storage, and disposal facility (TSDF) that follows the generator and transporter in the chain of waste management activities. The regulations pertaining to TSDFs are more stringent than those that apply to generators or transporters. They include general facility standards as well as unit-specific design and operating criteria.

There were no Federal RCRA treatment, storage and disposal facilities (TSDFs) found within a half-mile radius of target property.

Lists of Federal RCRA generators

A generator is any person who produces a hazardous waste as listed or characterized in part 261 of title 40 of the Code of Federal Regulations (CFR). Recognizing that generators also produce waste in different quantities, EPA established three categories of generators in the regulations: very small quantity generators, small quantity generators, and large quantity generators. EPA regulates hazardous waste under the Resource Conservation and Recovery Act (RCRA) to ensure that these wastes are managed in ways that protet human health and the environment. Generators of hazardous waste are regulated based on the amount of hazardous waste they generate in a calendar month, not the size of their business or facility.

There were no Federal RCRA generators found at the target property and/or adjoining properties.

Federal institutional control/engineering control registries

Institutional Controls (IC) are defined as non-engineered and/or legal controls that minimize the potential human exposure to contamination by limiting land or resource use. Whereas, Engineering Controls (EC) consist of engineering measures (e.g, caps, treatment systems, etc.) designed to minimize the potential for human exposure to contamination by either limiting direct contact with contaminated areas or controlling migration of contaminants through environmental media.

There were no Federal institutional or engineering controls found at the target property.

Federal ERNS list

The Emergency Response Notification System (ERNS) is a database used to store information on notification of oil discharges and hazardous substances releases. The ERNS program is a cooperative data sharing effort encompassing the National Response Center (NRC), operated by the US Coast Guard, EPA HQ and EPA regional offices. ERNS data is used to analyze release notifications, track EPA responses and compliance to environmental laws, support emergency planning efforts, and assist decision-makers in developing spill prevention programs.

There were no Federally recorded releases of oil and/or hazardous substances at the target property.

Lists of state and tribal Superfund equivalent sites

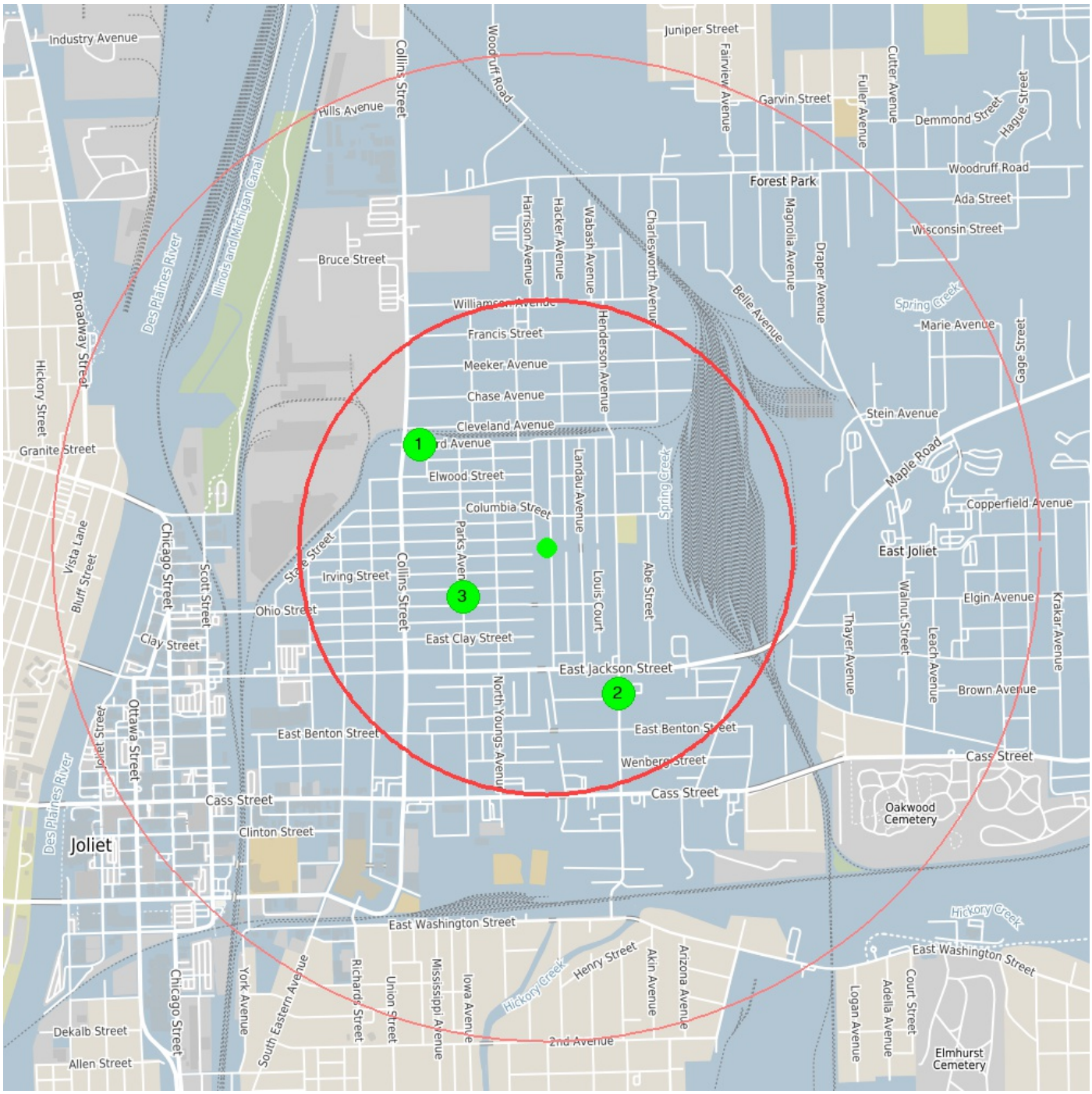
In order to maintain close coordination with the states and tribes in the NPL listing decision process, the EPA's policy is to determine the position of states and tribes on sites that EPA is considering for listing. Consistent with this policy, since 1996, it has been the EPA's general practice to seek the state or tribe's position on sites under consideration for NPL listing by submitting a written requiest to the governor/state environmental agency or tribe. Various states may have their own program for identifying, investigating and cleaning up sites where consequential amounts of hazardous waste may have been disposed that work in conjunction with the EPA's Superfund remedial program.

There were no State and/or tribal Superfund equivalent sites found within a one-mile radius of target property.

Lists of state and tribal hazardous waste facilities

IEPA - RCRA HAZARDOUS WASTE FACILITIES

The Resource Conservation and Recovery Act's (RCRA) hazardous waste permitting program ensures the safe management of hazardous wastes. Under this program, EPA establishes requirements regarding the treatment, storage and disposal of hazardous wastes. The permitting program is important to the cradle-to-grave management system for hazardous wastes, which prevents dangerous releases and avoids costly Superfund cleanups. Permits are issued by authorized state or EPA regional offices. State and EPA cooperate to implement RCRA. Hazardous waste management facilities receive hazardous wastes for treatment, storage, or disposal. These facilities are often referred to as treatment, storage and disposal facilities, or TSDFs. This data set was searched to return all records within a half-mile of the target property.



center 41.53526928512201 - 88.06701543553191

0.5 mile

1.0 mile

1

RCRA Name	**GREIF BROS CORP**
Source ID	**ILD984835751**
Address	**405 WARD AVE**
City	**JOLIET**
Registry ID	**110001286260**
Significant Non-Compliance	**No**
distance from center (miles)	0.3300
data source	last updated 2022-02-18 from IEPA-HWF

2

RCRA Name	**ILL BELL TEL CO BARRETT HARDWARE PBX**
Source ID	**ILD980613228**
Address	**324 HENDERSON AVE**
City	**JOLIET**
Registry ID	**110005851925**
Significant Non-Compliance	**No**
distance from center (miles)	0.3300
data source	last updated 2022-02-18 from IEPA-HWF

3

RCRA Name	**ONE HOPE UNITED**
Source ID	**ILR000181958**
Address	**500 PARKS AVE**
City	**JOLIET**
Registry ID	**110059727238**
Significant Non-Compliance	**No**
distance from center (miles)	0.1967
data source	last updated 2022-02-18 from IEPA-HWF

Lists of state and tribal landfills and solid waste disposal facilities

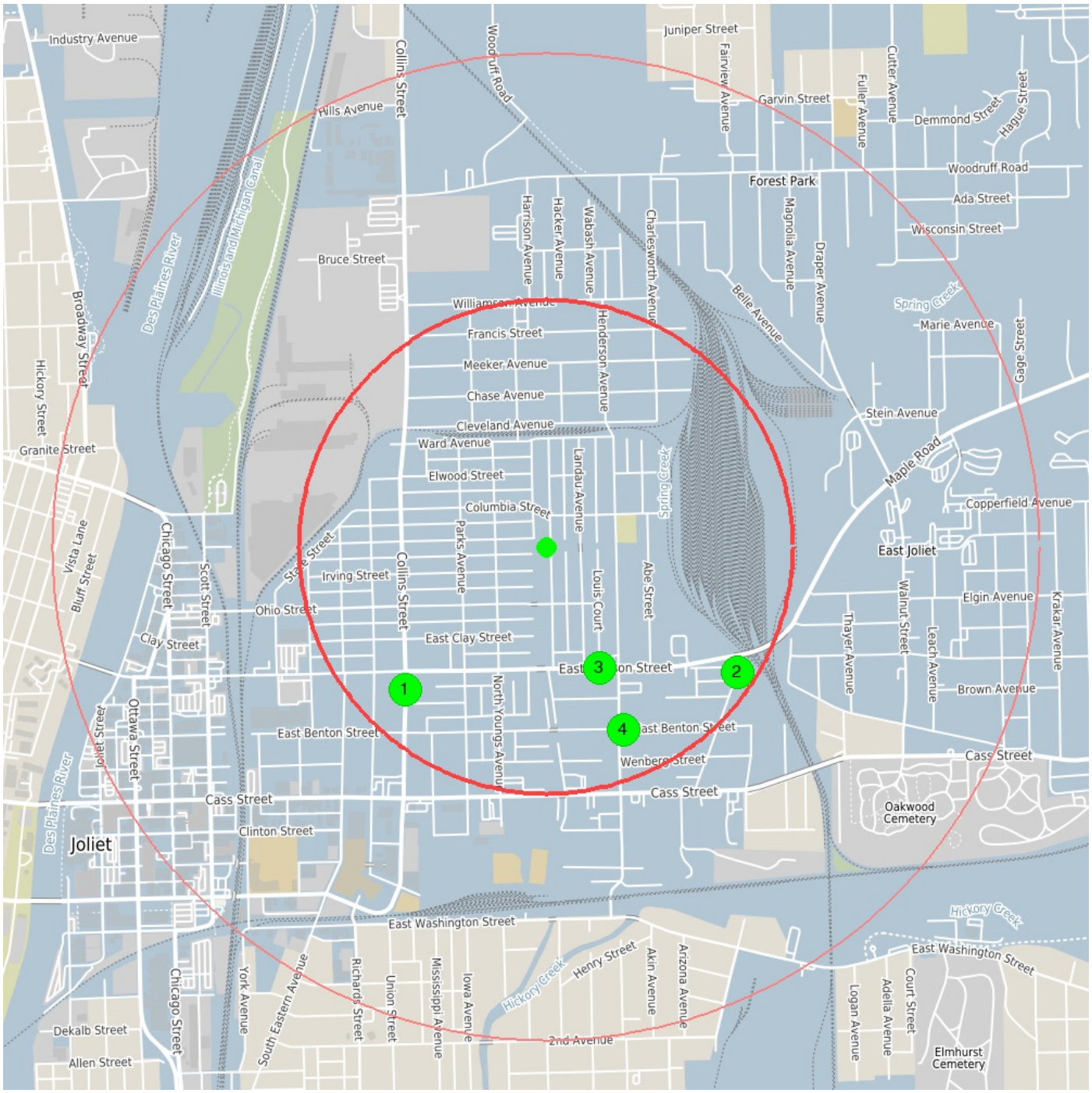
Title 40 of the CFR parts 239 through 259 contain the regulations for non-hazardous solid waste programs set up by the states. EPA has requirements for state solid waste permit programs, guidelines for the processing of solid waste, guidelines for storage and collection of commercial, residential and institutional solid waste, and the criteria for municipal solid waste landfills. State solid waste programs may be more stringent than the federal code requires.

There were no State and/or tribal landfills or solid waste disposal facilities found within a half-mile radius of the target property.

Lists of state and tribal leaking storage tanks

IEPA - LEAKING UNDERGROUND STORAGE TANKS

The Illinois Environmental Protection Agency (IEPA) Leaking UST Section oversees the remedial activities after a release from an UST has been reported to the Illinois Emergency Management Agency. This dataset has been acquired from Illinois EPA's Leaking UST database, and has been searched to return all leaking USTs within a half-mile of the target property.



center 41.53526928512201 - 88.06701543553191

0.5 mile

1.0 mile

1

LPC Number	**1970455462**
IEMA Number	**991590**
IEMA Date	**07/01/1999**
Site Name	**Cass-Collins, LLC**
Address	**350 East Collins St.**
City	**Joliet**
Primary RP	**Cass-Collins, LLC**
Gasoline	**False**
Diesel	**False**
Jet Fuel	**False**
Used Oil	**False**
Non-Petroleum	**False**
distance from center (miles)	0.4055
data source	last updated 2022-02-22 from IEPA-LUST

2

LPC Number	**1970450064**
IEMA Number	**901186**
IEMA Date	**05/02/1990**
Site Name	**Elgin, Joliet & Eastern Railroad**
Address	**601 Maple St.**
City	**Joliet**
Primary RP	**Elgin, Joliet & Eastern Railroad**
Gasoline	**False**
Diesel	**False**
Jet Fuel	**False**
Used Oil	**False**
Non-Petroleum	**False**
distance from center (miles)	0.4642
data source	last updated 2022-02-22 from IEPA-LUST

3

LPC Number	**1970455474**
IEMA Number	**992058**
IEMA Date	**09/01/1999**
Site Name	**Sammy Service Station**
Address	**663 East Jackson**
City	**Joliet**
Primary RP	**Sammy Service Station**
Gasoline	**True**
Diesel	**False**
Jet Fuel	**False**
Used Oil	**False**
Non-Petroleum	**False**
distance from center (miles)	0.2683
data source	last updated 2022-02-22 from IEPA-LUST

4

LPC Number	**1970455382**
IEMA Number	**961308**
IEMA Date	**07/22/1996**
Site Name	**Ward, Charles**
Address	**704 East Benton**
City	**Joliet**
Primary RP	**Charles Ward**
Gasoline	**True**
Diesel	**False**
Jet Fuel	**False**
Used Oil	**False**
Non-Petroleum	**False**
distance from center (miles)	0.4019
data source	last updated 2022-02-22 from IEPA-LUST

Lists of state and tribal registered storage tanks

EPA initially issued UST regulations in 1988. In 2015, EPA modified the UST regulation, which was effective October 13, 2015 in Indian Country and states without State Program Approval. EPA recognizes that, because of the size and diversity of the regulated community, state and local governments are in the best position to oversee USTs: 1) State and local authorities are closer to the situation in their domain and are in the best position to set priorities, 2) Subtitle I of the Solid Waste Disposal Act allows state UST programs approved by EPA to operate in lieu of the federal program, 3) the state program approval (SPA) regulations set criteria for states to obtain the authority to operate in lieu of the federal program. State programs must be at least as stringent as EPA's. A complete version of the law that governs USTs can be found in U.S. Code, Title 42, Chapter 82, Subchapter IX.

There were no State and/or tribal registered storage tanks found at subject and adjoining properties.

State and tribal institutional control/engineering control registries

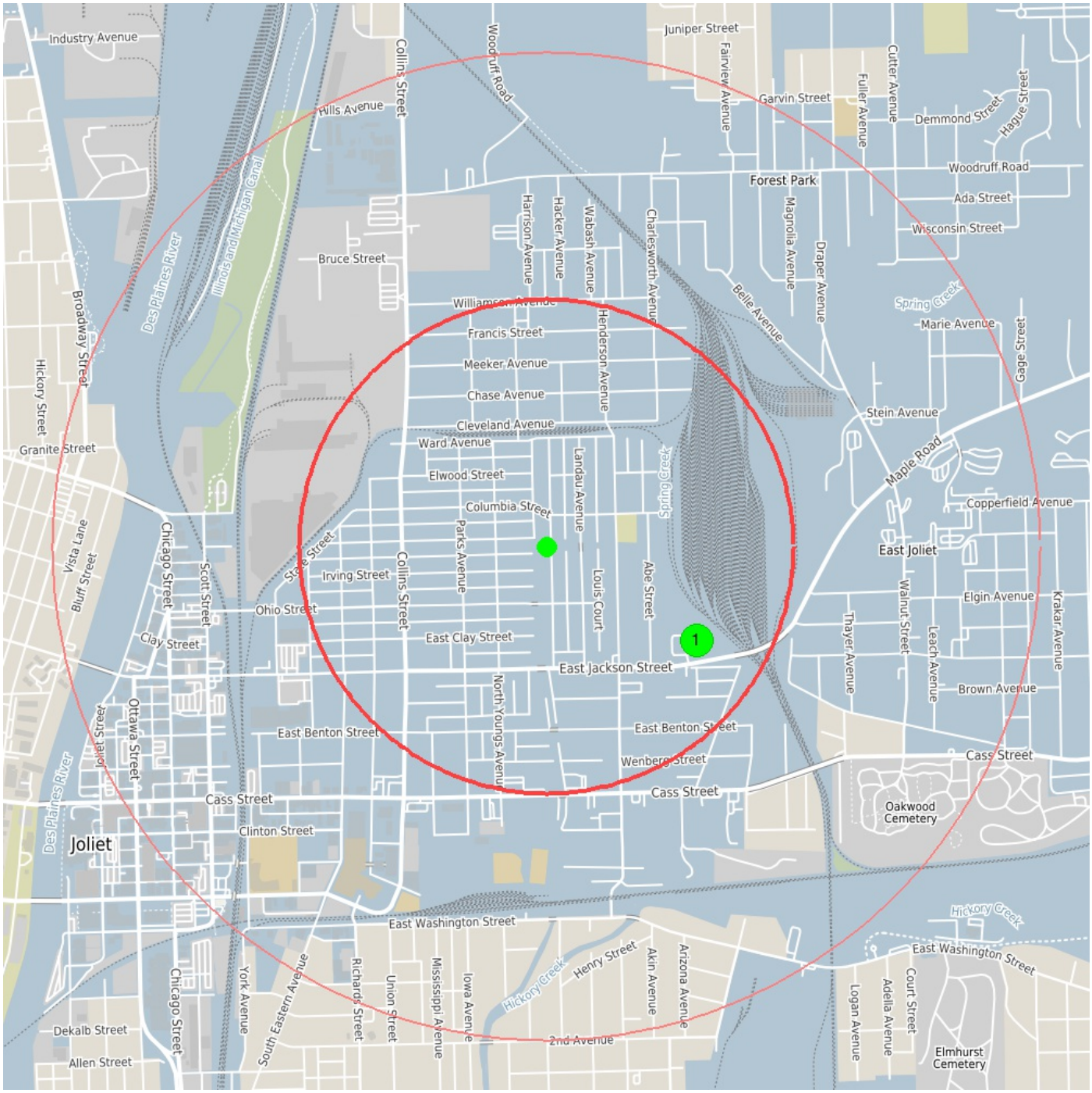
Institutional controls are non-engineered instruments such as administrative and legal controls that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Engineering controls consist of engineering measures (e.g, caps, treatment systems, etc.) designed to minimize the potential for human exposure to contamination by either limiting direct contact with contaminated areas or controlling migration of contaminants through environmental media. It is EPA's expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable.

There were no State and/or tribal institutional and/or engineering controls found filed against the target property.

Lists of state and tribal voluntary cleanup sites

IEPA - SITE REMEDIATION PROGRAM

The Voluntary Site Remediation Program (VSRP) provides Remediation Applicants (i.e., any persons seeking to perform investigavtive or remedial activities) the opportunity to receive Illinois Environmental Protection Agency (IEPA) review, technical assistance and no further remediation determinations from the IEPA. IEPA is authorized to issue No Further Remediation (NFR) letters to the Remedial Applicants who have successfully demonstrated, through proper investigation and, when warranted, remedial action, that environmental conditions at their remediation site do not present a significant risk to human health or the environment. This dataset has been searched to return all VSRP sites within a half-mile of the target property.



center 41.53526928512201 -88.06701543553191

0.5 mile

1.0 mile

1

IEPA ID	**1974450130**
Site Name	**Fresenius Dialysis Center**
Address	**721 East Jackson Street**
City	**Joliet**
Consultant Company	**KPRG and Associates, Inc.**
Active Site	**No**
distance from center (miles)	0.3603
data source	last updated 2022-02-22 from IEPA-VSR

Lists of state and tribal brownfields sites

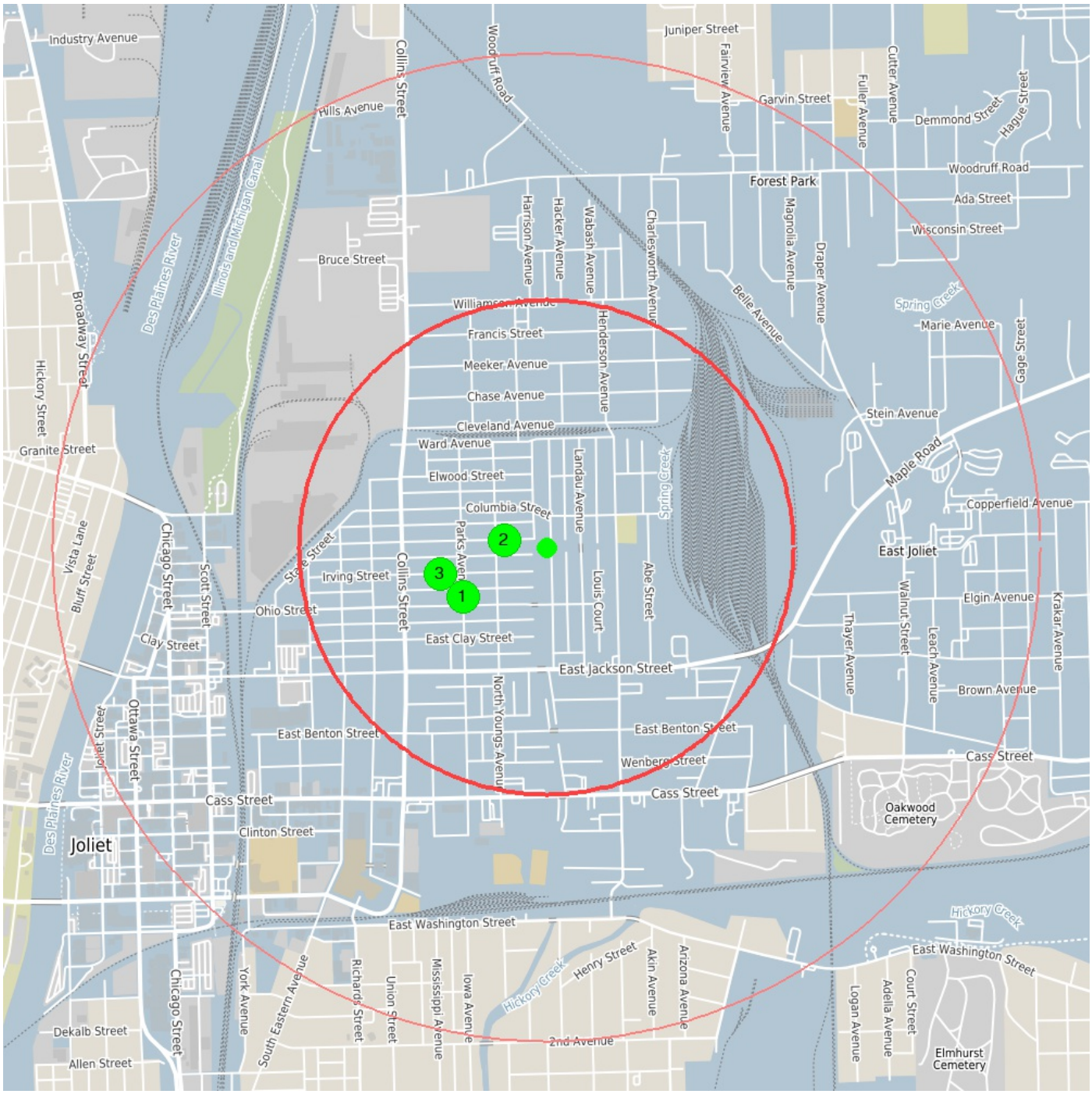
Since its inception in 1995, EPA's Brownfields and Land Revitalization Program has grown into a proven, results-oriented program that has changed the way communities address and manage contaminated property. The program is designed to empower states, tribes, communities, and other stakeholders to work together to prevent, assess, safely clean up, and sustainably reuse brownfields. Beginning in the mid-1990s, EPA provided small amounts of seed money to local governments that launched hundreds of two-year Brownfields pilot projects and developed guidance and tools to help states, communities and other stakeholders in the cleanup and redevelopment of brownfields sites.

There were no State and/or tribal brownfields sites found within a half-mile radius of the target property.

State and/or tribal lists of permitted facilities

ILLINOIS - AGENCY COMPLIANCE AND ENFORCEMENT SYSTEMS

The ACES computer system supports the compliance and enforcement activities that exist primarily within the Illinois Bureaus of Air, Water, and Land, the Division of Legal Counsel, and the Office of Chemical Safety. The intent of the system is to track compliance and enforcement processes and to share the information throughout the agency.



center 41.53526928512201 -88.06701543553191

0.5 mile

1.0 mile

1

Registry ID	**110058228975**
Name	**500 PARKS AVE**
Address	**500 PARKS AVE**
City	**JOLIET**
Site Type	**STATIONARY**
Program Acronyms	**ACES:170002026377**
Interest Type	**STATE MASTER**
Point of Reference Description	**CENTER OF A FACILITY OR STATION**
Date Created	**22-MAR-14**
FRS Facility Detail Report URL	**Link**
distance from center (miles)	0.1967
data source	last updated from FACILITY REGISTRY SERVICE

2

Registry ID	**110046544548**
Name	**550 LIBERTY**
Address	**550 LIBERTY**
City	**JOLIET**
Site Type	**STATIONARY**
Program Acronyms	**ACES:170001949131**
Interest Type	**STATE MASTER**
Point of Reference Description	**ENTRANCE POINT OF A FACILITY OR STATION**
Date Created	**15-OCT-12**
FRS Facility Detail Report URL	**Link**
distance from center (miles)	0.0856
data source	last updated from FACILITY REGISTRY SERVICE

3

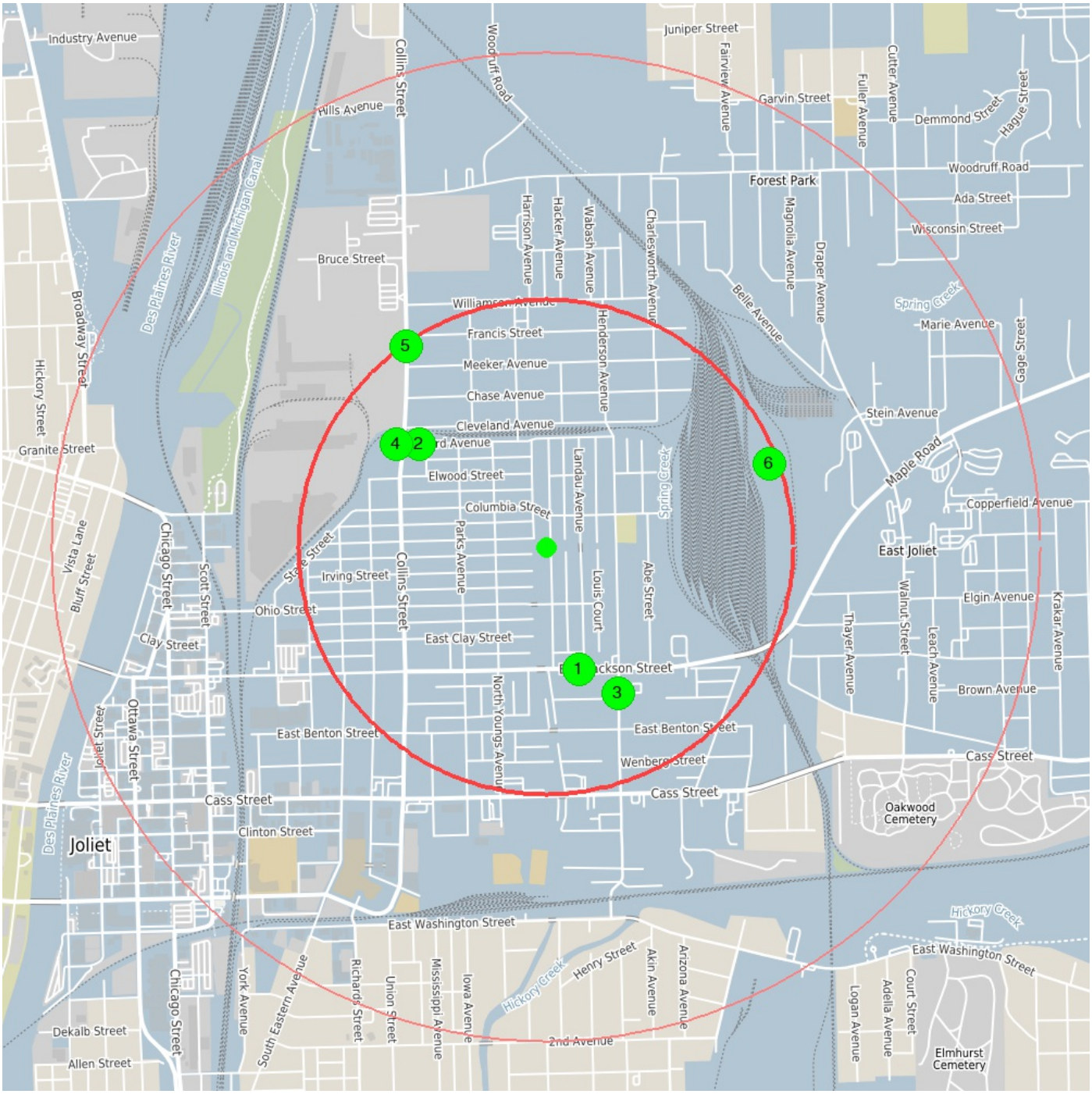
Registry ID	**110059727238**
Name	**ONE HOPE UNITED**
Address	**500 PARKS AVE**
City	**JOLIET**
Site Type	**STATIONARY**
Program Acronyms	**ACES:170002038355, RCRAINFO:ILR000181958**
Interest Type	**STATE MASTER, VSQG**
Point of Reference Description	**CENTER OF A FACILITY OR STATION**
Date Created	**26-JUN-14**
Date Updated	**30-JUN-14**
FRS Facility Detail Report URL	**Link**
distance from center (miles)	0.1967
data source	last updated from FACILITY REGISTRY SERVICE

Resource Conservation and Recovery Act Information (RCRAInfo)

RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

RCRAInfo is EPA's comprehensive information system that supports the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984 through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste.

Please note that RCRAInfo contains all hazardous waste handlers in addition to TSDFs, generators, and facilities undergoing RCRA corrective action. One may encounter duplicate records from the TSDF, generators, and/or the RCRA corrective action sections. This source was searched for all records within a half-mile of the target property.



center 41.53526928512201 - 88.06701543553191 0.5 mile 1.0 mile

1

Registry ID	**110005850999**
Name	**DEPENDABLE REBUILDERS**
Address	**617 JACKSON ST**
City	**JOLIET**
Site Type	**STATIONARY**
Program Acronyms	**ACES:170000240816, RCRAINFO:ILD165985573**
Interest Type	**STATE MASTER, UNSPECIFIED UNIVERSE**
Point of Reference Description	**CENTER OF A FACILITY OR STATION**
Date Created	**01-MAR-00**
Date Updated	**26-JAN-12**
FRS Facility Detail Report URL	**Link**
distance from center (miles)	0.2554
data source	last updated from FACILITY REGISTRY SERVICE

2

Registry ID	**110001286260**
Name	**GREIF BROS. CORPORATION**
Address	**405 WARD AVENUE**
City	**JOLIET**
Site Type	**STATIONARY**
Program Acronyms	**ACES:170000159370, AIR:IL000197045AJC, AIRS/AFS:1719700215, RCRAINFO:ILD984835751**
Interest Type	**AIR MINOR, STATE MASTER, VSQG**
Point of Reference Description	**CENTER OF A FACILITY OR STATION**
Date Created	**01-MAR-00**
Date Updated	**09-JAN-15**
FRS Facility Detail Report URL	**Link**
distance from center (miles)	0.3300
data source	last updated from FACILITY REGISTRY SERVICE

3

Registry ID	**110005851925**
Name	**ILL BELL TEL CO BARRETT HARDWARE PBX**
Address	**324 HENDERSON AVE**
City	**JOLIET**
Site Type	**STATIONARY**
Program Acronyms	**BR:ILD980613228, RCRAINFO:ILD980613228**
Interest Type	**HAZARDOUS WASTE BIENNIAL REPORTER, VSQG**
Point of Reference Description	**CENTER OF A FACILITY OR STATION**
Date Created	**01-MAR-00**
Date Updated	**26-JAN-12**
FRS Facility Detail Report URL	**Link**
distance from center (miles)	0.3300
data source	last updated from FACILITY REGISTRY SERVICE

4

Registry ID	**110002442964**
Name	**KC CORES AMERICAN EXOTHERMICS**
Address	**350 WARD AVE**
City	**JOLIET**
Site Type	**STATIONARY**
Program Acronyms	**ACES:170000158870, AIR:IL000197045AFS, AIRS/AFS:1719700357, RCRAINFO:ILD005971114**
Interest Type	**AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, STATE MASTER, UNSPECIFIED UNIVERSE**
Point of Reference Description	**ENTRANCE POINT OF A FACILITY OR STATION**
Date Created	**01-MAR-00**
Date Updated	**09-JAN-15**
FRS Facility Detail Report URL	**Link**
distance from center (miles)	0.3666
data source	last updated from FACILITY REGISTRY SERVICE

5

Registry ID	**110000432620**
Name	**US STEEL CORP JOLIET WORKS**
Address	**927 COLLINS STREET**
City	**JOLIET**
Site Type	**STATIONARY**
Program Acronyms	**ACES:170000158790, EIS:4108011, ICIS:30206, RCRAINFO:ILD005454566, TRIS:60432MRCNS927CO**
Interest Type	**AIR EMISSIONS CLASSIFICATION UNKNOWN, FORMAL ENFORCEMENT ACTION, STATE MASTER, TRI REPORTER, UNSPECIFIED UNIVERSE**
Point of Reference Description	**ENTRANCE POINT OF A FACILITY OR STATION**
Date Created	**01-MAR-00**
Date Updated	**01-JUN-17**
FRS Facility Detail Report URL	**Link**
distance from center (miles)	0.4955
data source	last updated from FACILITY REGISTRY SERVICE

6

Registry ID	**110000790671**
Name	**WISCONSIN CENTRAL LTD**
Address	**1141 MAPLE RD**
City	**JOLIET**
Site Type	**STATIONARY**
Program Acronyms	**ACES:170000158718, ACES:170002077446, AIR:IL000197045AAP, AIRS/AFS:1719700014, BR:ILD006929905, EIS:4107711, ICIS:200003185, NPDES:ILR003062, RCRAINFO:ILD006929905**
Interest Type	**AIR EMISSIONS CLASSIFICATION UNKNOWN, AIR MINOR, ENFORCEMENT/COMPLIANCE ACTIVITY, FORMAL ENFORCEMENT ACTION, HAZARDOUS WASTE BIENNIAL REPORTER, ICIS-NPDES NON-MAJOR, STATE MASTER, STORM WATER INDUSTRIAL, UNSPECIFIED UNIVERSE**
Point of Reference Description	**CENTER OF A FACILITY OR STATION**
Date Created	**01-MAR-00**
Date Updated	**01-JUN-17**
FRS Facility Detail Report URL	**Link**
distance from center (miles)	0.4819
data source	last updated from FACILITY REGISTRY SERVICE

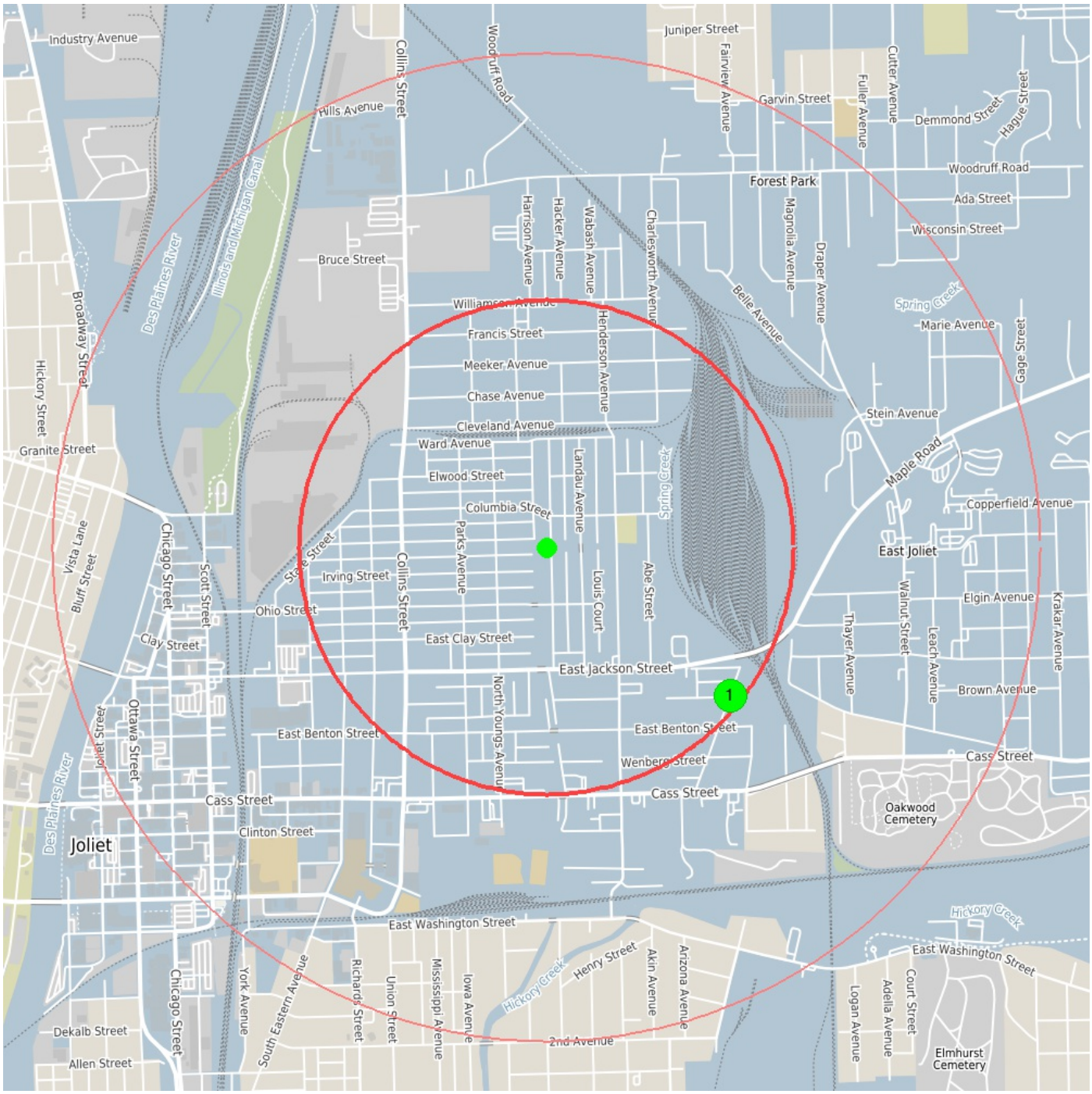
U.S. EPA Underground Storage Tanks (UST)

No records found

U.S. EPA Toxic Release Inventory System (TRIS)

TOXICS RELEASE INVENTORY SYSTEM

TRIS is a publicly available EPA database reported annually by certain covered industry groups, as well as federal facilities. It contains information about more than 650 toxic chemicals that are being used, manufactured, treated, transported, or released into the environment, and includes information about waste management and pollution prevention activities.



center 41.53526928512201 -88.06701543553191

0.5 mile

1.0 mile

1

Registry ID	**110002125245**
Name	**TRANSIT WAREHOUSE & DISTRIBUTING CO**
Address	**330 MAPLE ST**
City	**JOLIET**
Site Type	**STATIONARY**
Program Acronyms	**TRIS:60432TRNST330MA**
Interest Type	**TRI REPORTER**
Point of Reference Description	**ENTRANCE POINT OF A FACILITY OR STATION**
Date Created	**01-MAR-00**
Date Updated	**31-DEC-15**
FRS Facility Detail Report URL	**Link**
distance from center (miles)	0.4783
data source	last updated from FACILITY REGISTRY SERVICE

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