

Invitation to Bid #2223-09 Sampling and Lab Services

You are invited to provide pricing for groundwater, surface water, and landfill leachate sampling services as described below. Email to srtess@urbanainillinois.us or deliver to 706 S. Glover Ave. Urbana, IL 61802 by 2:00pm day October 17, 2022.

SUMMARY AND SPECIFICATIONS

1. **Summary:** The Champaign Urbana Solid Waste Disposal System (CUSWDS) is seeking services for collection and chemical analyses of groundwater, surface water, and leachate samples from the Urbana Landfill Complex.

The Landfill Complex is host to a fire training range, police firing range, arbor shop, solar farm, and retail Landscape Recycling Center. Public access to property is 8:00am to 3:30pm Monday through Friday (plus Saturday seasonally). Additional hours for sampling may be arranged and a key provided.

The City of Urbana provides staffing for CUSWDS. CUSWDS retains Midwest Engineering and Testing, Inc. (MET) to supervise monitoring activities and to evaluate groundwater level and water quality data.

While there is no active Illinois Environmental Protection Agency permit for this property, the sampling solicited here generally follows the parameters of PART 814 SUBPART C.

2. Specifications:
 - a. All analyses shall be performed by a laboratory with Illinois Environmental Protection certification or otherwise approved by Urbana-Champaign Sanitary District.
 - b. The work contemplated by this Invitation to Bid is restricted to the property shown on the attached Exhibit A.
 - c. Samples shall be collected, preserved, and analyzed in accordance with the requirements prescribed in 40 CFR Part 136 and amendments thereto.
 - d. The selected contractor will ship groundwater samples to the laboratory at the end of each day's collection activities. The selected contractor will not hold any groundwater sample container overnight without expressed permission.
 - e. Chemical analysis results shall be provided in PDF files and in IEPA O1 and O2 text file format via email.
 - f. CUSWDS Landfill Solar Powered Leachate Sampling
 - i. One (1) representative sample of the landfill leachate and recording of depth to liquid during the first six (6) months of each year.
 - ii. This sample shall be analyzed for the following:

1. Total Arsenic
2. Total Cadmium
3. Chromium (Hex)
4. Total Chromium
5. Total Copper
6. Total Cyanide (grab)
7. Total Lead
8. Total Mercury
9. Total Nickel
10. Total Selenium
11. Total Silver
12. Total Zinc
13. BOD5
14. Total Suspended Solids (TSS)
15. Ammonia Nitrogen
16. Total FOG (grab)
17. Non-Polar FOG (grab)
18. pH Range (grab)

iii. One (1) representative sample of the landfill leachate and recording of depth to liquid in August.

iv. This sample shall be analyzed for the following:

1. BOD
2. TSS
3. Ammonia Nitrogen

g. City Landfill Leachate Treatment Facility Sampling

i. One (1) grab sample from the discharge of the pretreatment system and recording of depth to liquid collected once per calendar quarter.

ii. This sample shall be analyzed for the following:

1. Benzene
2. Ethylbenzene
3. Toluene
4. Xylene

h. Groundwater Sampling

i. One (1) representative sample of the groundwater from the following wells shall be collected in the 2nd and 4th Quarters of each year:

1. 9G-101
2. 8G-101

3. 6G-102
 4. 4G-104A
 5. 4G-102
- ii. This sample shall be analyzed for the following:
- iii. Field Indicators:
- a. pH, (unfiltered units)
 - b. Temperature, (unfiltered °F)
 - c. Specific Conductance, (unfiltered μ mhos)
 - d. Depth to groundwater, (feet, decimal inches)
 - e. Total depth of well (feet, decimal inches)

iv. Chemical Analytes

1. Alkalinity
2. Boron
3. Chloride
4. Hardness
5. Iron
6. Manganese
7. Potassium
8. Nitrogen as Nitrate
9. Nitrogen as Nitrite
10. Nitrogen as Ammonia
11. Sodium
12. Sulfate
13. Total Dissolved Solids
14. Total Organic Carbon
15. Total Organic Halogens

i. Groundwater Field Indicator Collection

- i. Groundwater field indicators shall be measured and reported, and the wells purged in the 1st and 3rd Quarters for the following wells:

1. 9G-101
2. 8G-101
3. 6G-102
4. 4G-104A
5. 4G-102
6. 6-G101
7. 1-G103
8. 3-G102
9. 5-G101
10. 5-G102

ii. The following field indicators shall be measured and collected:

1. pH (unfiltered units)
2. Spec Cond (unfiltered μmhos)
3. Temp of Water (unfiltered $^{\circ}\text{F}$)
4. Depth to groundwater (feet, decimal inches)
5. Total depth of well (feet, decimal inches)

j. Surface Water Sampling

i. One (1) representative sample of the surface water at two (2) sampling locations collected in the 3rd quarter of each year during a low flow period of that quarter. This sample shall be analyzed for the following:

1. Barium (total mg/L)
2. Boron (mg/L)
3. Chloride (total mg/L)
4. Iron (dissolved mg/L)
5. Nickel (mg/L)
6. Selenium (total mg/L)
7. Sulfate (mg/L)
8. Silver (total $\mu\text{g/L}$)
9. PCBs
10. TDS (mg/L)

3. Insurance

The table below describes the type and level of coverage dependent on the total value of the contract resulting from this bid.

Type of Insurance	Contract Amount	Coverage Required
Commercial GL and Umbrella Insurance (construction and demolition projects, and other projects with significant risk)	<\$100,000	\$1,000,000 per occurrence and \$2,000,000 aggregate
	\$100,000 - \$500,000	\$2,000,000 per occurrence and \$4,000,000 aggregate
	\$500,000 - \$1,000,000	\$5,000,000 per occurrence and \$10,000,000 aggregate
	>\$1,000,000	\$10,000,000 per occurrence and \$20,000,000 aggregate
Auto Liability Insurance (any contract that requires operation of a motor vehicle)	All	At least \$1M per accident, covering any owned, hired, or non-owned auto
Workers' Compensation Insurance (construction, demolition, and other work)	All	At least \$1M each accident for bodily injury and \$1M each

where employees are at significant risk)		employee for bodily injury by disease.
Professional Liability Insurance (architects, engineers, or other professionals that would normally obtain professional liability insurance)	All	50% of estimated construction cost (e.g., \$1M for a \$2M project)
Builder's Risk or Boiler and Machinery (insures items during construction or installation up to final acceptance)	All	100% of project cost
Crime Insurance (contracts where contractor has access to City funds)	All	\$1,000,000 minimum
All policies should be written by companies qualified to do business in the State of Illinois and rated A-VIII or better in the current A. M. Best rating guide.		

Requirements and Insurance Certificates.

1. The City of Urbana and its officers and employees shall be named as additional insured parties on all policies.
2. The City's interests as additional insured parties will be on a primary and non-contributory basis on all policies and noted as such on insurance certificates.
3. All policies will be written on an occurrence basis (no "claims made" policies).
4. Insurance certificates will be provided prior to the City's execution of a contract.
5. Contractor provides an insurance certificate that details coverage described above and requires notification to the City if a policy is cancelled or not renewed.
6. The Contractor must require all subcontractors to have the same coverage.

Exhibit A
(Larger Format Exhibit A available)

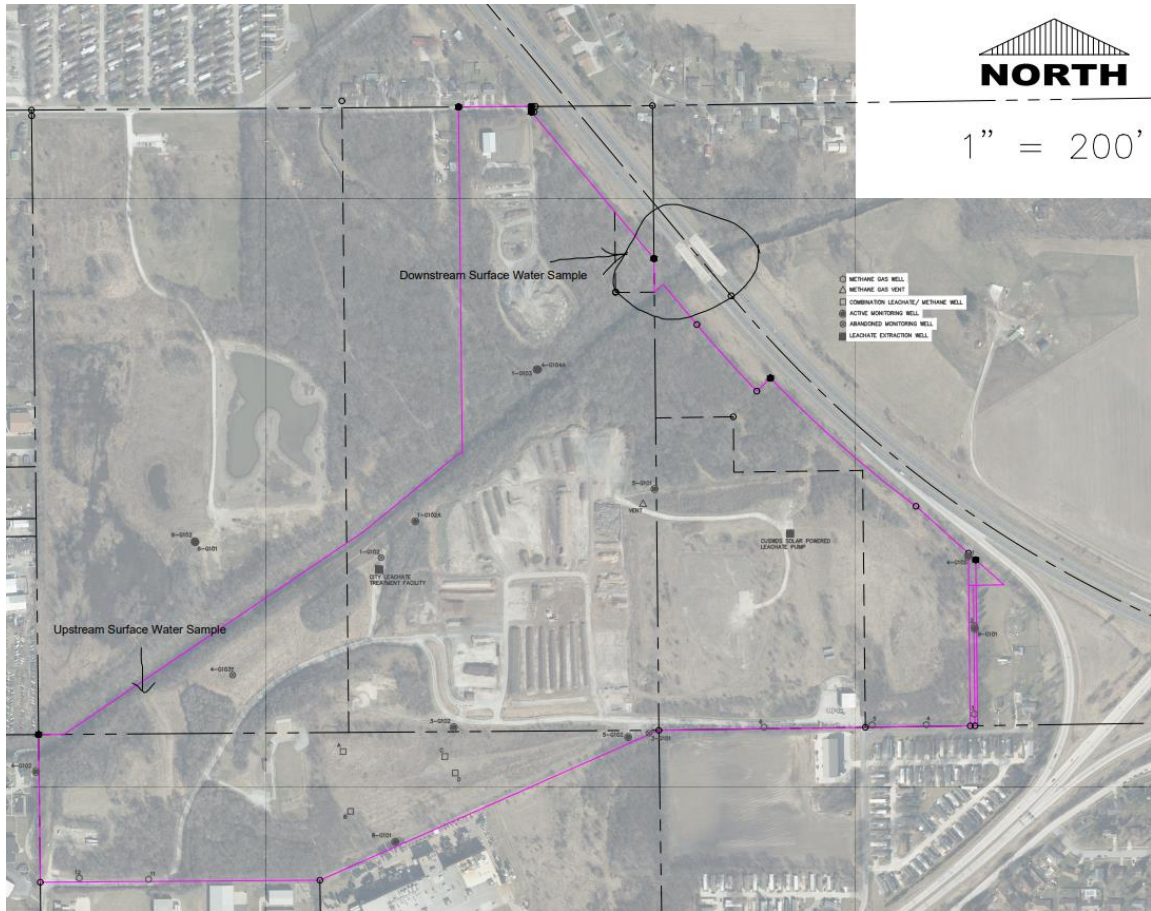


Exhibit B

<u>Well ID</u>	<u>Casing Type</u>	<u>Casing Top (msl)</u>	<u>Casing Rise (ft)</u>	<u>Surface Elevation</u>	<u>Total Depth</u>	<u>Base Elevation</u>
<u>4-G104A</u>	<u>SS</u>	<u>698.94</u>	<u>2</u>	<u>696.94</u>	<u>64.1</u>	<u>632.84</u>
<u>1-G103</u>	<u>SS</u>	<u>696.7</u>	<u>3</u>	<u>693.7</u>	<u>129</u>	<u>564.7</u>
<u>6-G102</u>	<u>PVC/SS</u>	<u>710.6</u>	<u>1.5</u>	<u>709.1</u>	<u>95</u>	<u>614.1</u>
<u>6-G101</u>	<u>PVC/SS</u>	<u>710.6</u>	<u>1.5</u>	<u>709.1</u>	<u>125</u>	<u>584.1</u>
<u>4-G102</u>	<u>SS</u>	<u>700.05</u>	<u>2</u>	<u>698.05</u>	<u>136</u>	<u>562.05</u>
<u>8-G101</u>	<u>PVC/SS</u>					
<u>5-G102</u>	<u>PVC</u>	<u>738.77</u>	<u>2.5</u>	<u>736.27</u>	<u>130</u>	<u>606.27</u>
<u>1-G102A</u>						
<u>1-G102</u>						
<u>5-G101</u>	<u>PVC</u>	<u>729.63</u>	<u>2.5</u>	<u>727.13</u>	<u>120</u>	<u>607.13</u>
<u>3-G101</u>						
<u>4-G105</u>	<u>SS</u>	<u>742.72</u>	<u>2</u>	<u>740.72</u>	<u>132</u>	<u>608.72</u>

Exhibit C

1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
	SPLP Leachate	SPLP Leachate	
CLTF Leachate	CLTF Leachate	CLTF Leachate	CLTF Leachate
	5 MW Field & Chem		5 MW Field & Chem
10 wells Field		10 wells Field	
		2 Surface Chem	

Bid Form

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1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
SPLP Leachate \$		SPLP Leachate \$	
CLTF Leachate \$	CLTF Leachate \$	CLTF Leachate \$	CLTF Leachate \$
	5 MW Field & Chem \$		5 MW Field & Chem \$
10 wells Field \$		10 wells Field \$	
		2 Surface Chem \$	

Enter bid price for combined collection and analysis for each service in each cell.

Signature of Company Official

Company Name

Printed Name of Company Official

Company Address

Title of Company Official

City/State/Zip

Date

Telephone

Email