RFP NO. 322039

DANE COUNTY DEPARTMENT OF WASTE & RENEWABLES
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN 53713

REQUEST FOR PROPOSALS NO. 322039
ENVIRONMENTAL MONITORING SERVICES
DANE COUNTY DEPARTMENT OF WASTE & RENEWABLES
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN

ISSUED FOR PROPOSALS: SEPTEMBER 6TH, 2022

Due Date / Time: **TUESDAY, OCTOBER 4, 2022 / 2:00 P.M.** Location: **WASTE & RENEWABLES OFFICE**

FOR INFORMATION ON THIS REQUEST FOR PROPOSALS, PLEASE CONTACT:

KYLE ANDERSON, SAFETY & COMPLIANCE COORDINATOR
TELEPHONE NO.: 608/720-0595
E-MAIL: ANDERSON.KYLE@COUNTYOFDANE.COM

Department of Waste & Renewables

John Welch, P.E.
Director

Deputy Director
Roxanne Wienkes

Joseph T. Parisi
County Executive

1919 Alliant Energy Center Way
Madison, Wisconsin 53713
https://landfill.countyofdane.com/

September 6, 2022

INVITATION FOR PROPOSALS

You are invited to submit a Proposal for RFP No. 322039 to provide environmental monitoring services for a contract period of five (5) years.

Dane County is inviting Proposals for environmental monitoring services for a contract period of five (5) years. Work will primarily be related to Department of Waste & Renewables projects. Dane County may award contracts to multiple bidders and may split work between different bidders depending on firms' expertise in related work. Services will include environmental monitoring, sampling, data analysis and other professional engineering and technical assistance related to environmental permits, licenses and regulations applicable to Dane County and the Department of Waste & Renewables facilities and projects. Workload will be assigned based on required frequencies or at the discretion of Dane County.

The Proposals are due on or before **2:00 p.m., October 4, 2022**. No performance bond is required.

SPECIAL INSTRUCTIONS

Please provide the entire proposal package in these formats: one (1) hard copy and an electronic version on a USB flash drive. Follow these instructions when submitting your proposal:

1. Place the signed Proposal Form on top as page 1.
2. Place the signed Fair Labor Practices Certification after the Proposal Form as page 2.
3. Place the Proposal information after Fair Labor Practices Certification.
4. Clearly label your envelope containing your proposal in the lower left-hand corner as follows:
   Proposal No. 322039
   Environmental Monitoring Services
   October 4, 2022, 2:00 p.m.
5. Mail or deliver to:
   Kyle Anderson, Safety & Compliance Coordinator
   Dane County Department of Waste & Renewables
   1919 Alliant Energy Center Way
   Madison, Wisconsin 53713

Use the drop box outside of our Office if you choose to hand deliver. If any additional information about this Request for Proposals is needed, please call Kyle Anderson at 608/720-0595 or send email to Anderson.kyle@countyofdane.com.

Sincerely,

Kyle Anderson
Safety & Compliance Coordinator
Enclosure: Request for Proposals No. 322039 Package

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REQUEST FOR PROPOSAL

LEGAL NOTICE

Dane County Dept. of Waste & Renewables, 1919 Alliant Energy Center Way, Madison, WI 53713, will receive sealed Proposals until:

2:00 P.M., TUESDAY, OCTOBER 4, 2022

RFP NO. 322039

ENVIRONMENTAL MONITORNING SERVICES

DEPARTMENT OF WASTE & RENEWABLES

1919 ALLIANT ENERGY CENER WAY, MADISON, WI

Dane County is inviting Proposals for environmental monitoring services for a contract period of five (5) years. Services will include environmental monitoring, sampling, data analysis and other professional engineering and technical assistance related to environmental permits, licenses and regulations applicable to Dane County and the Department of Waste & Renewables facilities and projects.

RFP document may be obtained after **2:00 p.m., September 6, 2022** from bids-pwht.countyofdane.com. Call Kyle Anderson, Safety and Compliance Coordinator, 608/720-0595, with any questions.

PUBLISH: **SEPTEMBER 6TH & SEPTEMBER 13TH, 2022 - WISCONSIN STATE JOURNAL**

SEPTEMBER 7TH & SEPTEMBER 14TH, 2022 - THE DAILY REPORTER

SECTION 00 24 16

SCOPES OF PROPOSALS

1. GENERAL INFORMATION

A. The Dane County Department of Waste & Renewables operates an active municipal solid waste landfill (Rodefeld Landfill) at 7102 Hwy 12 & 18, Madison, WI. Additional operations at the landfill property include a household hazardous waste collection facility (Clean Sweep), a construction and demolition waste recycling facility, and a renewable natural gas (RNG) plant. Dane County also diverts metal, asphalt shingles, and tires for recycling at this property.

B. The Dane County Department of Waste & Renewables also manages two closed municipal solid waste landfills within Dane County. The Verona Landfill is located near Badger Prairie Park in Verona and the Truax Landfill is located near Dane County Regional Airport in Madison.

C. The Dane County Department of Waste & Renewables is currently in the design and planning for a new municipal solid waste landfill and sustainability business park or "Sustainability Campus" for future waste management needs. The property appears to be suitable for a landfill with a capacity of 70+ years, and the sustainability campus will focus on diversion of materials from the landfill, with operations by both Dane County and third party operators. Services for landfill permitting and site development/design will be sought under a separate proposal; however, this contract could include incidental work for the project or ongoing routine monitoring for the site.

D. The Dane County Department of Waste & Renewables is inviting proposals for monitoring services for a contract period of five (5) years. The monitoring, as required by the contract documents and specifications, shall be conducted for the 2023, 2024, and 2025 calendar years. The contract may be renewed for the 2026 and 2027 calendar years by mutual agreement of both contracting parties. Work will primarily be related to Department of Waste & Renewables projects. Dane County may award contracts to multiple bidders and may split work between different bidders depending on firms' expertise in related work. The goal is to have a contract with a Professional Environmental Monitoring firm (or firms) for work consisting mainly of routine environmental monitoring data collection, database creation, analysis and reporting. Workload will be assigned based on required frequencies and at the discretion of Dane County.

E. Dane County Department of Waste & Renewables will make relevant site materials (permits, reports, data, etc.) available to perspective proposers upon request.

2. SCOPE OF WORK

A. Contractor shall furnish all labor, materials, equipment and services necessary to perform environmental monitoring at Dane County Landfill Site No. 1 (Verona), Site No. 2 (Rodefeld) and the Truax Landfill as called for in this Request for Proposal.

    a. Environmental monitoring shall include, but is not limited to, the items listed in the environmental monitoring tables. (See attachments and figures)

        i. Dane County Landfill Site No. 1 (Verona) – All monitoring points (Attachment 1, Figure 1)

ii. Dane County Landfill Site No. 2 (Rodefeld) – All monitoring points (Attachment 2)

iii. Truax Landfill – Groundwater monitoring only (Attachment 3, Figure 3)

B. An annual general assistance budget shall be provided under this contract. The general assistance section will be evaluated based on the pricing provided under Section 5; B.

a. The general assistance category may include additional supplemental monitoring on an as needed basis. Some monitoring under this scope of work may take place on points that are not included in the environmental monitoring tables. If an additional call out fee is required for supplemental work, please provide a unit cost in the table provided.

C. If for any reason the Contractor is unable to sample/monitor a particular point during a given period, the Contractor must provide Dane County with a summary of points not monitored and the reason why within 2 days of the event.

D. It shall be the Contractor's responsibility to ensure that the methods and procedures used while conducting environmental monitoring at the landfill sites are acceptable to the applicable permit governing entity. Attachment 2 and Section C. Monitoring Procedures have been provided as guidance to the methods and procedures that shall be followed.

E. Contractor shall prepare and submit any data required to be uploaded to the Wisconsin Department of Natural Resources (WDNR) Groundwater and Environmental Monitoring System (GEMS) database. Some data may be provided by Dane County and shall be still the Contractor's responsibility to upload with all other required data into the GEMS database.

F. Contractor shall provide a comprehensive database of all collected data under this contract. Database shall have the capability to trend and analyze specific data points.

G. Contractor shall plan and coordinate, at minimum, monthly meetings with Dane County to discuss completed and upcoming monitoring and sampling work.

a. During monthly meetings, Contractor shall provide a maintenance log of monitoring points needing maintenance or repair.

b. Summarize recently completed monitoring and sampling work.

c. Discuss any upcoming work and coordinate with affected parties if necessary. (i.e. RNG Plant staff, MMSD, Landfill Staff)

H. Contractor shall complete an annual audit of all data and reports and ensure compliance with all applicable permits.

I. Contractor shall complete sampling required by Dane County's waste water discharge permit held with Madison Metropolitan Sewerage District (MMSD). Sampling parameters and frequency listed in the discharge permit shall be followed (See Attachment 2 Monitoring Tables). Contractor shall also ensure that water sample collection and preservation procedures listed in the MMSD permit are followed.

J. All routine project management, meetings and other correspondence directly related to the work under this contract shall be part of the overall unit pricing outlined in the tables provided in Section 5.

K. Monitoring Procedures:

a. General

i. The Contractor shall maintain the Dane County Landfill Site No. 2 (Rodefeld) Sampling Plan which is provided in Attachment 2. For any of the monitoring procedures listed in this section that conflict with Attachment 2, follow the guidance provided in Attachment 2.

ii. It shall be the Contractor's responsibility to ensure that the methods and procedures used while conducting environmental monitoring at the landfill sites are acceptable to the WDNR and in accordance with site specific permits and plans.

iii. The methods used for the sample collection, preservation and analysis shall be accomplished in accordance with standard methods for the examination of water and wastewater or other methods approved in writing by the WDNR (NR 140, NR 149, PUBL-DG-036-96 and PUBL-DG-037-96).

iv. Samples should be analyzed as soon as possible after collection. The maximum holding times for which a sample may be held before analysis must correspond to those given in Table F, NR 219.

v. If for any reason the Contractor is unable to sample a particular monitoring point during a given period, Contractor must provide Dane County with a summary of monitoring points not monitored and the reason why within 2 days of monitoring.

b. Quality Control/ Quality Assurance

i. The Contractor shall have quality control and quality assurance procedures in the field and in the laboratory to prevent contamination and ensure accurate results. The Contractor shall, at a minimum, meet all quality control and quality assurance requirements in NR 149.14 and NR 149.24.

ii. The quality control program shall be documented and such documents shall be provided to Dane County prior to commencement of the sampling under this contract.

iii. Intralaboratory quality control shall include routine analyses of reference standards, spikes and duplicates. Spikes and duplicates are to be analyzed on a minimum of 10 percent of the samples.

iv. Quality control charts for precision and accuracy shall be kept for each parameter. Accuracy and precision charts shall be available upon request.

v. If the quality control limit is exceeded, the samples in that analysis batch must be reanalyzed and the quality control limit met. Quality control testing shall be at the Contractor's expense. Documentation shall be available to the Engineer, upon request, indicating that corrective action was taken to bring results back within limits.

vi. Interlaboratory quality control using US EPA reference standards should be performed, at a minimum, on a quarterly basis.

vii. Field quality control procedures shall include, at a minimum, the following:

1. Field duplicates shall be collected for every 10 samples collected.

2. A minimum of one field blank shall be collected at each Landfill site.

3. For trips involving organics sampling, a trip blank shall be collected for each cooler.

4. Analysis results for the above samples shall be made part of the monitoring report. Dane County will not be charged for any blank results.

5. In cases where the field blank or trip blank show contamination at a significant level (i.e. above the PAL), resampling and analysis of affected wells, if deemed necessary by Dane County, must be done at the Contractor's expense.

c. Water Level Measurement

i. Water elevations (MSL) shall be determined prior to sample collection.

ii. Dane County will provide a reference elevation (MSL) at each monitoring point to aid in determining the water elevation.

d. Water Sample Collection and Preservation

i. Water samples shall be collected by personnel who have been specially trained in water sample collection methods.

ii. Only new sampling containers shall be used.

iii. Monitoring wells shall be purged immediately prior to collecting samples by removing at least four (4) volumes of standing water in each well. Contractor shall determine the volume of standing water in each well by measuring the distance from the top of the water table to the bottom of the well. Well purging shall be done in accordance with sampling procedures and guidelines contained in DNR publications PUBL-DG-037-96 and PUBL-DG-038-96.

iv. Appropriate precautions shall be taken to prevent well contamination and to ensure that uncontaminated, representative water samples are taken.

v. Water samples from monitoring wells and surface water locations shall be field filtered through a 0.45-micron filter, except for the portion on which field pH, field conductivity and VOCs will be determined. Private well samples, leachate samples and collection lysimeter samples shall not be field filtered.

vi. Water samples shall be preserved immediately after collection in accordance with standard methods and stored at temperatures at or below 4° C.

e. Water Quality Analysis

i. The field pH of each sample shall be determined at the time of collection with an accurate portable pH meter.

ii. The field conductivity (at 25° C) of each sample shall be determined at the time of collection with an accurate portable conductivity meter.

iii. All other water quality parameters shall be determined in a laboratory using standard analytical methods and equipment as approved by WDNR.

iv. All analyses shall have a LOD and LOQ below the PAL, or else produce the lowest available LOD and LOQ above the PAL.

f. Gas Monitoring

i. All gas monitoring points shall be monitored using standard methods approved by WDNR and in accordance with site specific permits or plans.

ii. Gas monitoring shall be performed using meters capable of detecting methane, oxygen, and carbon dioxide concentrations of 0.1% or less.

L. Monitoring Report:

a. Contractor shall prepare a monitoring report for each landfill site and submit to Dane County each quarterly monitoring period. This scope is separate from the GEMS submittal outlined in Section 2. E.

b. The reports for Dane County Sites No. 1 and 2 shall contain the following information:

i. Name and qualifications of the persons conducting the monitoring.

ii. Time and date of monitoring.

iii. A description of the methods, procedures, and equipment used, including: (Note: a description of Standard Operating Procedures and standard equipment for both the field and laboratory needs to be submitted only once. The quarterly reports only need to discuss variations.)

1. Calculations of the amount of standing water in each well and the number of gallons that were removed before sampling;

2. Procedures used to flush wells prior to collecting samples and the approximate time elapsed between flushing and sampling;

3. Procedures for cleaning samplers (e.g. bailers) between wells and the order of well sampling;

4. Equipment used to measure conductivity and pH in the field;

5. Volume of samples collected; procedures used to filter the sample (if applicable) prior to analysis; and procedures for chemical preservation of samples;

6. Methods for transporting samples to the lab; the time spent transporting the samples to the lab; and the time passed before the samples are analyzed in the lab.

7. Groundwater and gas sampling field data sheets.

iv. Analytical procedures used in the lab for each required parameter, including make and model of any automated analytical equipment used. If procedures are exactly as described in published sources, reference may be listed to fulfill this requirement.

v. Water level elevations in MSL (include the measured distance from the top of the well casing to the water level and the measured distance from the top of the well casing to the bottom of the well).

vi. Analytical results for each sample.

vii. Historical summaries for all inorganic parameters at each sampling location that shows the last 8 rounds of data and identification and discussion of any notable trends.

viii. Historical summaries of detected VOCs at each sampling location that shows the last 8 rounds of data and identification and discussion of any notable trends.

ix. All required WDNR submittal materials including the Groundwater Monitoring Data Certification sheets, data diskettes, and an exceedance summary table addressing the cause and significance of noted exceedances.

x. All trip blank or method blank detects (VOCs only).

xi. Gas monitoring results.

xii. Any problems encountered during the monitoring, including a list of any monitoring points not monitored and the reason why.

xiii. Any quality control problems encountered and a summary of any corrective actions taken.

c. The report for the Truax Landfill shall consist of:

i. Monitoring data in DNR electronic format.

ii. Field notes.

iii. Laboratory analytical report.

M. Whenever possible, meetings shall be held via teleconference or videoconference, to be hosted by the consultant. Dane County reserves right to mandate safe physical distancing &

use of face masks by all personnel while inside any County facility or on any County grounds.

3. PROPOSAL CONTENT

A. Interested consultants shall submit the following information in their proposal, in six distinct sections or divisions:

1. Proposal Form, Fair Labor Practices Certification and Proposer's cover letter.

2. Description of firm's qualifications, related experience, organization and resources. Qualifications and experience should be related to the divisions of work being proposed on.

3. Brief list of similar projects previously completed with the project details, name, address and telephone number of the client for whom the work was done. Specific reference shall be made to projects involving public facilities as is being proposed. You may separately list additional professional references.

4. List of staff that will be committed to the Work with their professional resumes. Actual personnel may be interviewed if firm is short-listed. Include listing of other personnel who may participate in this project and their area of expertise.

5. Unit price fees for services shall be listed in the unit price tables provided. If additional line items must be added based on the provided scope of work, please provide those in the provided table. With the provided scope of work, please also provide an estimated annual cost broken down by each site.

6. State clearly any limitations you wish to include in *Draft Dane County Contract* and advise of any conditions that you may have.

4. EVALUATION CRITERIA

A. Proposing consultants will be evaluated on this criteria:

Staff Qualifications /Capabilities	25%
Organization Strength / Capabilities	25%
Project Experience / References	25%
Cost	25%

5. PRICING

A. Additional details about pricing and payments are detailed in the *Draft Dane County Contract*.

Unit price fees for services shall be listed in the unit price tables provided. If additional line items must be added based on the provided scope of work, please provide those in a similar unit price format. With the provided scope of work, please also provide an estimated annual cost broken down by each site.

VERONA SITE NO. 1

ITEM	UNIT PRICE	QTY./YEAR	ANNUAL PRICE
1. Water Level Measurement	$		
2. Water Sample Collection and Preservation	$		
3. Water Quality Analysis			
a. color	$		
b. odor	$		
c. turbidity	$		
d. field pH	$		
e. field temperature	$		
f. COD	$		
g. hardness	$		
h. alkalinity	$		
i. field conductivity	$		
j. chloride	$		
k. cadmium	$		
l. chromium, total	$		
m. lead	$		
n. mercury	$		
o. selenium	$		
p. total ammonia nitrogen	$		
q. total Kjeldahl nitrogen	$		
r. sulfate	$		
s. zinc	$		
t. sodium	$		
u. manganese	$		
v. phosphorus	$		
w. BOD_5	$		
x. total suspended solids	$		
y. nickel	$		
z. total iron	$		
aa. VOC's (8260)	$		
bb. VOC's (8270)	$		
4. Gas Monitoring Probes	$		
5. Gas Extraction Wells	$		
6. Leachate Head Elevation	$		
7. Basement Monitoring	$		
8. Monitoring Report	$		

RODEFELD SITE NO. 2

ITEM	UNIT PRICE	QTY./YEAR	ANNUAL PRICE
1. Water Level Measurement	$		
2. Water Sample Collection and Preservation	$		
3. Water Quality Analysis			
a. color	$		
b. odor	$		
c. turbidity	$		
d. field pH	$		
e. COD	$		
f. hardness	$		
g. alkalinity	$		
h. field conductivity	$		
i. field temperature	$		
j. chloride	$		
k. arsenic	$		
l. barium	$		
m. cadmium	$		
n. chromium	$		
o. fluoride	$		
p. lead	$		
q. mercury	$		
r. selenium	$		
s. silver	$		
t. copper	$		
u. NO2 + NO3 (as N)	$		
v. total ammonia nitrogen	$		
w. sulfate	$		
x. zinc	$		
y. sodium	$		
z. manganese	$		
aa. phosphorus	$		
bb. BOD5	$		
cc. total suspended solids	$		
dd. nickel	$		
ee. total iron	$		
ff. beryllium, total	$		
gg. thallium, total	$		
hh. antimony, total	$		
ii. cobalt, total	$		
kk. vanadium, total	$		
ll. VOC's (8260)	$		
4. Gas Monitoring Probes	$		
5. Gas Extraction Wells	$		
6. Gas Sample EPA TO-14	$		
7. Leachate Head Elevation	$		
8. Monitoring Report	$		

TRUAX LANDFILL

ITEM	UNIT PRICE	QTY./YEAR	ANNUAL PRICE
1. Water Level Measurement	$		
2. Water Sample Collection and Preservation	$		
3. Water Quality Analysis			
a. color	$		
b. odor	$		
c. turbidity	$		
d. field pH	$		
e. hardness	$		
f. alkalinity	$		
g. field conductivity	$		
h. field temperature	$		
i. arsenic	$		
j. barium	$		
k. cadmium	$		
l. lead	$		
m. NO2 + NO3 (as N)	$		
n. sulfate	$		
o. manganese	$		
p. total iron	$		
q. VOC's (8260)	$		

ADDITIONAL LINE ITEMS

ITEM	UNIT PRICE	QTY./YEAR	ANNUAL PRICE
Quarterly GEMS Database Submittal	$		
Call-Out Fee	$		
Dane County Monitoring/Sampling Database	-	-	$
MMSD Semi-Annual Sampling	$		

B. For proposal evaluation purposes only, the cost proposal for general assistance will be based on a project with the following number of hours for each position.

Principal-In-Charge	5 hours
Project Manager	10 hours
Professional Engineer	10 hours
Senior Engineer	10 hours
Junior Engineer	10 hours
Senior Field Technician	10 hours
Junior Field Technician	20 hours
Clerical Staff	10 hours

Note: Position titles may vary. If there is not a position title at your company that exactly matches a position title listed above, please write in the closet job title in the Cost Proposal.

All prices, costs, and conditions outlined in the proposal shall remain fixed to the first 3 years of the contract. Thereafter, prices can be increased by no more than the increase in the

Midwest Consumer Price Index. Any such increases will be considered only if Dane County receives the request in writing no less than 60 days prior to the anniversary of the contract.

6. OWNER'S RESPONSIBILITY

A. Dane County will provide all applicable permits, background information, data, drawings and specifications to selected firms. These drawings and specifications may not be complete or in an as-built condition. Firms will need to confirm accuracy and completeness of data, drawings and specifications.

7. TIMETABLE

A. Listed below are specific and estimated dates and times of events related to this RFP. The events with specific dates must be completed as indicated unless otherwise changed by Dane County. In the event that Dane County finds it necessary to change any of the specific dates and times in the calendar of events listed below, it will do so by issuing an addendum to this RFP. There may or may not be a formal notification issued for changes in the estimated dates and times.

DATE	EVENT
September 6, 2022	RFP issued
September 23, 2022 - 2:00 p.m.	Written inquiries due
September 27, 2022	Latest addendum (if necessary)
October 4, 2022 - 2:00 p.m.	Proposals due
October 5 – 18, 2022 (est.)	Oral presentations / Interviews
October 19, 2022 (est.)	Notification of intent to award sent out
December 30, 2022 (est.)	Notice to Proceed

8. ADDITIONAL INFORMATION

A. Dane County Department of Waste & Renewables, 1919 Alliant Energy Center Way, Madison, Wisconsin 53713, will receive your Proposal.

B. Information regarding this project may be obtained from Kyle Anderson, Waste & Renewables Safety & Compliance Coordinator, 608/720-0595, Anderson.kyle@countyofdane.com.

C. Since RFP documents are obtained from the Dane County web site, proposing company is responsible to check back there regularly for Addenda.

D. All Proposals must be submitted by 2:00 p.m., Tuesday, October 4, 2022.

E. Dane County reserves the right to accept or reject any Proposal submitted.

F. Information submitted by consultants will be reviewed and candidates may be scheduled to appear before an interview panel. Those appearing for an interview shall be prepared to discuss their approach for this work, methodology, project team, a timetable, the basis of their fee schedule and answer questions from our staff.

G. Dane County reserves the right to negotiate an Agreement after the successful firm is selected. Selection will be based only on the proposal submitted and subsequent interviews. Therefore, the proposals must be complete. Submission of a proposal shall constitute a valid

offer, which may be accepted by the County for a period of ninety (90) calendar days following the proposal due date.

H. Dane County is an Equal Opportunity Employer.

END OF SECTION

Attachment 1

Dane County Verona Landfill
License # 2680
Environmental Monitoring Tables

Table 1 - Groundwater and Surface Water Monitoring

Wells	DNR ID#	Wells	DNR ID#	Sampling & Reporting[1] Frequency	Parameter Codes	Parameters
Groundwater Monitoring Wells						
MW12R	176	MW33	191	Sample Semiannually May and November	72020	Elevation, Groundwater (feet above mean sea level)
MW12PR	183	MW33P	192		00001	Odor
MW14	114	MW35	195		00002	Color
MW14P	184	MW35P	210		00003	Turbidity
MW15	115	MW36	196		00010	Temperature, of water taken in field ^{0}C
MW17P	185	MW36P	211		00094	Field Conductivity @ 25^0 C(umho/cm)
MW17R2	201	MW38	198		00400	Field pH (standard units)
MW17P2	209	MW38P	212		22413	Total Hardness, filtered (mg/L)
MW18R	186	MW39	199		39036	Alkalinity, filtered (mg/L)
MW26	126	MW40	200			VOCs (ug/L), EPA Method 8260 (NR 507, App III)
MW28	178					
MW28P	187					
MW29	179					
MW29P	180					
MW29P2	188					
MW31	189					
MW32R	218					
MW30	181			Sample Annually May		
MW37	197					
MW41	202					
MW43	204					
MW43P	213					
MW45	216					
MW45P	217					
Surface Water Monitoring Locations						
Mill Creek - Downstream	169			Sample Annually May	00001	Odor
					00002	Color
					00003	Turbidity
Mill Pond	160				00010	Temperature, of water taken in field ^{0}C
					00094	Field Conductivity @ 25^0 C(umho/cm)
					00400	Field pH (standard units)
					22413	Total Hardness, filtered (mg/L)
					39036	Alkalinity, filtered (mg/L)
						VOCs (ug/L), EPA Method 8260 (NR 507, App III)

1. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period.
Trip Blank (999) and/or Field Blank (997) data must also be submitted electronically.

Dane County Verona Landfill
License # 2680
Environmental Monitoring Tables

Table 2 - Private Water Supply Well Monitoring					
Well	**DNR ID#**	**WUWN**	**Sampling & Reporting[1.] Frequency**	**Parameter Codes**	**Parameters**
Private Water Supply Wells:					
PW1 Nesbitt	131	BW557		00001	Odor
PW4 Zweifel	134	BW560	Sample	00002	Color
PW6 Robinson	136	BW562	Semiannually	00003	Turbidity
			May and November	00010	Temperature, of Water taken in field ^{0}C
				00094	Field Conductivity @ 25^{0} C(umho/cm)
				00400	Field pH (standard units)
					VOCs (ug/L), EPA Method 8260 (NR 507, App. III)
PWQ - Beckfield	206	EI298	Sample Annually May		

1. To be reported as per code within 10 days of landfill owner's or operator's receipt of results.
Trip Blank (999) and/or Field Blank (997) data must also be submitted electronically.

Dane County Verona Landfill
License # 2680
Environmental Monitoring Tables

Table 3 - Leachate Characteristic Monitoring

Monitoring Pt.	DNR ID#	Monitoring Pt.	DNR ID#	Sampling & Reporting[1] Frequency	Parameter Codes	Parameters
Leachate Lift Station:				Record Total Volumes Monthly; Report Semiannually in May and November	00032	Leachate Volume Pumped (1000s of gallons)
Leachate Tank	182					
				Sample Quarterly February, May August, November	00010	Field Temperature
					00094	Field Conductivity @ 25oC (umho/cm)
					00150	Suspended Solids, total (mg/l)
					00310	BOD (5 day @ 20°C (mg/L)
					00400	Field pH, (standard units)
					00665	Phosphorus, total (mg/l, P)
					00001	Odor
					00002	Color
					00003	Turbidity
				Sample Semiannually June and December	00610	Nitrogen, Ammonia, total (mg/L as N)
					00625	Nitrogen, Kjeldahl, total (mg/L as N)
					00900	Hardness, total (mg/L as CaCO3)
					00929	Sodium, total (mg/L)
					00940	Chloride, total (mg/L)
					00945	Sulfate, total (mg/L)
					01027	Cadmium, total (ug/l)
					01051	Lead, total (mg/L)
					01055	Manganese, total (mg/L)
					01092	Zinc, total (ug/l)
					71900	Mercury, total (mg/L)
					74010	Iron, total (mg/L)
					00340	COD, unfiltered (mg/L)
					00410	Alkalinity, total as CaCO3 (mg/L)
					01147	Selenium, total
					01067	Nickel, total
					01034	Chromium, total
						VOCs (ug/L), EPA Method 8260 (NR 507, App III)
				Sample Annually May		SVOCs (ug/L), EPA Method 8270 (NR 507, App IV)
Leachate Levels - Gas Extraction Wells:				Record Annually May	00023	Leachate Head Elevation (feet MSL)
GW1	355	GW14	368			
GW2	356	GW15	369			
GW3	357	GW16	370			
GW4	358	GW17	371			
GW5	359	GW18	372			
GW6	360	GW19	373			
GW7	361	GW23	381			
GW8	362	GW24	383			
GW9	363	GW25	385			
GW11	365	GW26	387			
GW12	366	GW27	389			
GW13	367					

1. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period. For items indicated as "Report Semiannually", the reporting is due within 60 days after the end of the last monitoring period in the semiannual period.

Dane County Verona Landfill
License # 2680
Environmental Monitoring Tables

Table 4 - Landfill Gas Monitoring

Monitoring Point - DNR ID #				Sampling & Reporting[1,2] Frequency	Parameter Codes	Parameters
Landfill Gas Monitoring Probes						
Monitoring Pt	**ID#**	**Monitoring Pt**	**ID#**			
GP4	303	GP40	406	Monthly	85547	Percent Methane, by volume
GP12	332	GP41	407		85550	Percent Oxygen, by volume
GP13	333	GP42	408			
GP14	334	GP43	409			
GP17	337	GP44	410			
GP20	340					
GP32	391					
GP5 High	304	GP22	342	Quarterly (February, May, August, November)		
GP5 Low	305	GP23	343			
GP6	306	GP24	344			
GP7 High	307	GP28	314			
GP7 Low	308	GP29P	315			
GP8 High	309	GP30	316			
GP8 Low	378	GP31	390			
GP10	330	GP35	392			
GP11	331	GP36	393			
GP15	335	GP37	394			
GP16	336	GP38	395			
GP18	338	GP39	396			
GP19	339					
Building: Robinson Basement	317			Semiannual (May and November)	85547	Percent Methane, by volume
					85550	Percent Oxygen, by volume
Landfill Gas Extraction Wells						
Monitoring Pt	**ID#**	**Monitoring Pt**	**ID#**			
GW1	355	GW18	372	Monthly	85547	Percent Methane, by volume
GW2	356	GW19	373		85550	Percent Oxygen, by volume
GW3	357	GW20	374		46385	Wellhead Pressure (inches)
GW4	358	GW21	375			
GW5	359	GW22	376			
GW6	360	GW23	381			Note to Proposer: Although not required by WNDR, please provide costs for collecting:
GW7	361	GW24	383			
GW8	362	GW25	385			- Balance Gas
GW9	363	GW26	387			- CO2
GW11	365	GW27	389			- Available Pressure
GW12	366	GW28	400			- Valve Position
GW13	367	GW29	401			- Adjusted Valve Position
GW14	368	GW30	402			- Adjusted Wellhead Pressure
GW15	369	GW31	403			
GW16	370	GW32	404			
GW17	371					
Blower Building	377					
Flare	405					
Site Conditions						
Site Conditions	399			Record monthly at same time as blower	00021	Ambient Air Temperature (^{0} F)
					00025	Barometric Pressure (mm of Hg)
					46381	Trend in Barometric Pressure

1. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period. For items indicated as "Report Semiannually", the reporting is due within 60 days after the end of the last monitoring period in the semiannual period.
2. Immediate notification may be necessary under NR 507.22(1)(c) Wis. Adm. Code.

Figure 1

CROSS COUNTRY ROAD

EAST VERONA AVE.

US HIGHWAY 18/151

MAPLE GROVE DRIVE

ROBINSON BASEMENT
PW-6 ROBINSON
MW30
GP(MW30)
GP8
HIGH/LOW
GP10
GP11
MW15
GP6
GP12
GP20
GP21
GP19
GP22
GP18
GP23
MW26
GP15
MW14
MW14P
GP16
GP17
GP1
GP13
GP14
GP2
MW45
MW45P
MW40
MW41
PW-1 NESBITT
PW-4 ZWEIFEL
GW 30
GW 31
GW 32
GW 29
GW 13
GW 12
GW 28
GW 15
GW 22
GW 11
GW 16
GW 21
GW 14
GW 17
MW31
GP31
MW28
MW28P
GP28
GP44
GW 23
GW 18
GW 20
GW 9
MW39
GP39
MW32R
GP32
GP43
GW 19
BLOWER BUILDING
FLARE
GW 24
GW 8
GP42
GW 1
GW 7
GW 4
GP41
GW 25
MW29P2
MW29
MW29P
GP-29P
MW38
MW38P
GP38
MW18R
GW 2
GW 26
GW 6
GP4
GP40
GP3
GW 27
GW 3
GW 5
GP7
HIGH/LOW
MW12R
MW12PR
MW37
GP37
MW33
MW33P
GP5
HIGH/LOW
LEACHATE TANK
GP35
MW35P
MW35
GP36
MW36P
MW36
MW17P2
MW17R2
MW17P
GP24
MILL POND
MW43
MW43P
MILL CREEK-DOWN

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- LIMITS OF WASTE
- GAS EXTRACTION WELL MONITORING POINT
- GAS MONITORING POINT
- GAS MONITORING PROBE
- ABANDONED GAS MONITORING PROBE
- WATER SUPPLY WELL MONITORING POINT
- WATER TABLE MONITORING WELL
- PIEZOMETER
- SURFACE WATER MONITORING POINT
- LEACHATE MONITORING POINT

N

400 0 400

SCALE: 1" = 400'

LANDFILL MONITORING POINT LOCATIONS

SITE

DANE COUNTY LANDFILL
SITE - VERONA

CLIENT

DANE COUNTY
DEPARTMENT OF PUBLIC WORKS
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN 53713

FIGURE 1

ENGINEER

SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

PROJECT NO.	25217087.19
DRAWN:	09/28/16
REVISED:	12/26/19
DRAWN BY:	EIS/ZB
CHECKED BY:	CJ
APPROVED BY:	

I:\25217087.19\Drawings\Verona\Monitoring Points.dwg, 12/26/2019 1:42:11 PM

Attachment 2

Groundwater, Surface Water, Leachate, and Gas Sampling Plan

Dane County Landfill Site No. 2 (Rodefeld)

Prepared for:

Dane County Public Works
1919 Alliant Energy Center Way
Madison, Wisconsin 53713

SCS ENGINEERS

25220091.00 | September 2021

2830 Dairy Drive
Madison, WI 53718-6751
608-224-2830

Table of Contents

Attachments

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1.0 OVERVIEW

This Groundwater, Surface Water, Leachate, and Gas Sampling Plan (Plan) for Dane County Landfill Site No. 2 (Rodefeld Landfill) has been prepared to comply with Wisconsin Administrative Code, NR 507.16.

Prior to initiation of routine or special groundwater sampling events at Rodefeld Landfill, the Plan should be reviewed by all sampling team members. Site conditions or site-specific regulatory requirements may necessitate a deviation from the Plan as described herein. Any such deviation from this Plan must be documented by the sampling team leader in coordination with the designated Dane County representative.

This Plan provides guidelines that may be supplemented based on site-specific conditions and/or state-specific requirements, which preclude strict adherence to the Plan as described herein. Possible reasons for variation from this Plan include, but are not limited to, unusual site hydrogeologic conditions, such as low permeability formations resulting in long recharge times; damaged monitoring points awaiting repair; or circumstances preventing sampling, such as a tar-like substance in a leachate headwell.

2.0 NR 507.16 (1)(a) AND (b) – SITE MAP AND SAMPLING SCHEDULE

Drawings included in Attachment A show the site and the locations of all inactive and active sampling points and devices adherent to Wisconsin Department of Natural Resources Groundwater Environmental Monitoring System (GEMS). A sampling schedule outlining the months when samples are to be collected, the sampling period, and the list of analytical parameters for each monitoring point is included as Attachment B.

3.0 NR 507.16 (c) – FIELD MEASUREMENTS

3.1 ORDER OF SAMPLING

Rodefeld Landfill monitoring wells are purged first to allow time for an adequate sampling volume to recharge in the well if it purges dry and to ensure the sample represents the groundwater within the soil formation at the well location as opposed to stagnant water.

3.2 STATIC WATER LEVEL MEASUREMENTS

Water levels are collected on the same day prior to purging to produce a representative static groundwater elevation contour map and minimize interference due to drawdown or barometric pressure effects. To alleviate the potential for errors, previous water level data can be used for comparison purposes during field activities.

Water levels are measured using a Solinst Water Level Meter Model 101 or equivalent meter. The decontaminated probe is lowered into the well until the instrument indicates that the water column has been encountered. The probe is slowly raised and lowered in and out of the water column until the sampler is satisfied that the instrument is providing a reliable water level reading. The depth to water and elevation of the water level (mean sea level [MSL]) is recorded to the nearest hundredth of a foot (i.e., 0.01 foot).

3.3 CONDUCTIVITY, PH, AND TEMPERATURE

The proper measurement and documentation of field analyses are a critical part of the monitoring program. Before going to the field, all equipment is cleaned and checked for any malfunctions. The sampling team will calibrate meters each morning before using them in the field following manufacturer's calibration procedures.

Equipment calibration will be conducted daily at a minimum. Calibration solutions will be freshly prepared or bottled from non-expired stock. In the absence of manufacturer guidance, field equipment will be calibrated to within +/- 5 percent of the standard (or 0.1 standard unit for pH meters). Calibration of field-specific conductance will be verified against a chilled standard to verify temperature compensation.

Equipment that fails calibration will be taken out of service and replaced or repaired prior to sampling. Calibration checks will be conducted periodically (e.g., mid-day and at end-of-day) to document any instrument drift. If there is significant instrument drift (e.g., >10 percent or 0.2 standard unit for pH), then the meters will be recalibrated.

Conductivity, pH, and temperature are measured using a YSI Professional Plus Quick Start or equivalent meter.

3.4 TURBIDITY, ODOR, AND COLOR

The physical descriptions of turbidity, odor and color of will be completed as outlined below.

Odor: Odor will be classified as rotten eggs, earthy, strong, moderate, or slight. Samples will be wafted as opposed to sniffing and no speculations will be made as to cause of odor.

Color: "True" color is the color after turbidity has been removed, if samples are filtered. True color may be caused by metallic ions, humus, peat, or industrial chemicals. Hold the sample up to the light and describe the true color in as much detail as possible (color charts are acceptable descriptive methods). If samples are not filtered, then color may be a function of turbidity.

Turbidity: Turbidity will be classified as described below regardless of whether turbidity measurements are taken:

- None: Sample is clear.
- Slight: Sediment slightly clouds or colors the sample; sediment does not accumulate in the bottle.
- Moderate: Definite cloudiness, sediment accumulates at the bottom of sample bottle.
- High: Muddy/dark brown appearance.

4.0 NR 507.16 (d) – GROUNDWATER PURGING PROCEDURES

4.1 TRADITIONAL PURGING METHODS

When minimal drawdown techniques are not utilized, monitoring wells will be pumped or bailed prior to sample withdrawal to prevent collection of non-representative stagnant water in a sample. As a general rule, pump or bail a minimum of four times the volume of water standing in the well casing for moderate-to high-yield formations (those with fast recharge) and at least one borehole volume (includes water within the PVC casing plus the filter pack volume, assuming 30 percent effective porosity, if applicable) for low-yield formations (those with slow recharge), if possible. Well purging should be sufficient to increase the likelihood that the water collected is representative of the groundwater within the formation around the well.

Dedicated bailers (installed in the individual monitoring wells) and portable pumps are used to purge the monitoring wells at the Rodefeld Landfill. Dedicated bailers are used for sample collection at the Rodefeld Landfill. The bailer cord shall be fastened securely to the bailer and consists of nylon roping. This cord must be clean and in good condition. Care should be taken not to excessively disturb the column of water in the well casing. The bailer shall be gently lowered into the well with each cycle. The bailer should be lowered into the water only to the extent necessary to fill or nearly fill the chamber. Avoid submerging the top of the bailer. Equipment blanks must also be obtained in accordance with Section 6.3 of this Plan.

Discard purged water to the ground far enough away from the well footing to prevent the possibility of affecting shallow soils or groundwater near the well. Results from previous sampling events may prevent disposal of purge water to the ground. If previous testing suggests groundwater is impacted at a location, it may be necessary to collect all purge water in drums (preferably lined) to dispose of the water within the site leachate collection system or other approved manner as defined by the Dane County representative.

4.2 VERY LOW YIELD SAMPLING METHODS

Some wells at the Rodefeld Landfill bail dry due to the low conductivity glacial till with varying amounts of silty sand, silt, and clay. In cases where a well bails dry prior to removal of 4 well volumes (water column within the PVC well casing) of purge water, bail or pump the volume of water standing in the well and allow the well to recharge for up to 24 hours or as stipulated by local or state regulation. If there is not sufficient water for sampling any parameter, then the well is considered dry for the purpose of sampling. If water is available to partially complete sampling requirements, samples should be obtained in the order specified in the approved monitoring plan or as specified by the Dane County representative. Volatile organic analytes (VOAs) should be collected first, followed by the remaining parameters and excessively turbid samples will not be collected. Minimum testing volumes for each analyte are outlined in Attachment C or contact the laboratory. If a sample cannot be obtained from a given well which normally provides adequate water for a sample, notify the Dane County representative immediately and note on field forms.

4.3 DECONTAMINATION PROCEDURES FOR NON-DEDICATED, DOWN-HOLE PURGING EQUIPMENT

All non-dedicated, sample-contacting, and down-hole equipment must be thoroughly decontaminated prior to its use in sample collection activities. This includes non-dedicated pumps, non-dedicated bailers, groundwater level measurement devices, field parameter measurement devices, and non-

dedicated filtering apparatuses. A dedicated water level probe shall be used for groundwater monitoring wells. Under no circumstances shall the groundwater level probe be used to measure other liquid levels (such as leachate or grossly contaminated wells).

Decontamination procedures of down-hole equipment must, at a minimum, consist of washing with a non-phosphate detergent solution, followed by two or three rinses (i.e., 2 to 3) with control water (i.e., water of a known chemistry), and one rinse with deionized (DI) water.

Decontamination of non-dedicated pumps must, at a minimum, consist of circulation with clean water for three pump and tubing volumes and all associated discharge tubing. A series of three pre-cleaned liquid storage containers will aid in this effort. The first container should contain a non-phosphate detergent solution. The remaining two should consist of control water.

Other non-dedicated equipment (e.g., field meters and water level indicators) should be triple-rinsed with DI water before and after each use.

At a minimum, one Equipment Blank shall be collected from non-dedicated purging/sampling equipment following decontamination for each day of sample collection (Section 6.3). Equipment Blanks will be analyzed for all sample matrices, analytical tests, and equipment configurations.

4.4 TIME BETWEEN PURGING/SAMPLING

Groundwater samples should be collected in the shortest possible time following the well purge. Exceptions can be made to allow sediment to settle-out in turbid wells. However, such wells may need to be redeveloped prior to the next sampling event. Redevelopment refers to spending some additional time with the purging process using well development techniques such as “surge and purge” in an effort to reduce the well’s turbidity. The method of sample collection is usually the same as purging, unless otherwise specified by site conditions or regulation.

5.0 NR 507.16 (e) – GROUNDWATER SAMPLE COLLECTION

5.1 OBTAINING GROUNDWATER SAMPLES

After purging has been completed at those wells with a dedicated, low-flow pump, the pumping rate should be reduced as low as possible to deliver a slow and steady discharge. Do not use a valve to reduce the flow rate. If the well has been purged with a bailer, the sample should be collected from a bailer using a bottom discharge device.

5.2 SAMPLE VOLUME

The volume of sample required for the various analyses is summarized in Attachment C.

5.3 SAMPLE FILTRATION

When sample filtration is required, the samples should be filtered in the field. Samples that require filtering must be filtered through a 0.45-micron membrane pressure filter. Typically, only samples for dissolved metals analysis require filtration. Parameters requiring filtration are specified in the approved monitoring plan and regulatory requirements. Surface water and leachate samples are not filtered, unless specifically required by approved monitoring plan. Samples which have been field-filtered must be noted on the field chain of custody records. Where applicable, the laboratory will note which samples require filtering on the individual sample bottle labels and bottle schematics.

It is recommended that filtration be performed using an in-line filtration system or an approved alternative. A small amount of water must be allowed to pass through the filter and tubing before obtaining a sample. A new filter shall be used for each monitoring point, in addition to each sampling event. Under no circumstances are filters to be re-used.

If samples are collected utilizing bailers, pressure filters are an acceptable method of filtering. Where in-line filtration is not possible, pre-filtration bottles may be used to transfer the samples to the field filtration device. Pre-filtration bottles must be obtained from an approved supplier and identified at the time of sampling. The sampling team must notify the supplier ahead of time to arrange for a sufficient number of bottles.

Additional Notes:

- Filtering must always be performed while in the field, during sample collection.
- Filters must be 0.45 micron and dedicated for groundwater only. Do not use any filtering apparatus that is used for other procedures.
- Surface water and leachate samples are never filtered unless specifically required.
- Pre-filtration bottles used for pressure filtering, should not be used for more than one well. If re-use is absolutely necessary, pre-filtration bottles must be thoroughly decontaminated between wells in accordance with Section 4.3 of this Plan.
- Filtering of preserved samples must never be performed.

5.4 SAMPLE PRESERVATION

In general, sample preservation should be performed in the field (except for pre-preserved VOA vials). Only with explicit approval from the Dane County representative can functions be performed by the laboratory upon receipt. Samples are to be preserved immediately after filtration or collection (if samples are not filtered). VOAs, which are allowed no headspace or no air bubbles trapped in the sample, will have proper preservatives included in the sample bottle.

Bottles will be provided by the laboratory that are pre-preserved and packed in separate plastic bags and labeled as such. If not pre-preserved, then add the preservatives to the sample bottle after it has been filled with the sample. Fill the sample bottle to within 1/2 inch of the top of the sample container. Once the preservative has been added and the sample container capped, invert the sample container to ensure complete mixing with the sample. Do not shake the sample container. Check preservation of the samples in the field periodically to ensure that the sample is properly preserved.

Cool the sample container to 4 degrees Celsius from the time the sample is collected through the time of analysis. Maintain samples in temperature-regulated refrigerators or in coolers containing ice or commercial frozen wet ice packs. Ensure that provisions have been made in advance for facilities that do not have accommodations to freeze the wet ice packs. In such cases, it is recommended to bring pre-chilled coolers and extra ice to the site. The ice should be frozen solid prior to use. Ensure that the samples are properly cooled during shipment to the laboratory. Blue ice or chemical ice packs should not be used. Samples must be shipped daily to the laboratory to ensure proper temperature control and holding time requirements are met.

5.5 DECONTAMINATION PROCEDURES FOR NON-DEDICATED, DOWN-HOLE SAMPLING EQUIPMENT

Procedures for cleaning non-dedicated, down-hole sampling equipment will be similar to procedures used for non-dedicated, down-hole purging equipment. Procedures are outlined in Section 4.3.

6.0 NR 507.16 (f) – QUALITY ASSURANCE - TRIP, FIELD, EQUIPMENT BLANKS, AND DUPLICATES

Trip Blanks, Field Blanks, and Equipment Blanks are used to detect constituents that may be introduced in the field (either from the atmosphere or from sampling equipment), in transit to or from the sampling site, in bottle preparation, or sample storage at the laboratory (Quality Assurance). Duplicates are used to confirm analytical results from a given sample point (Quality Control). Upon return to the laboratory, Trip Blanks, Field Blanks, Equipment Blanks, and Duplicates will be analyzed using the same laboratory procedures and methods that are used for the collected field samples.

6.1 TRIP BLANKS

Trip Blanks are samples of volatile organic-free, laboratory quality water (e.g., Type II Reagent grade) that are prepared at the laboratory. They remain with the sample bottles while in transit to the site, during sampling, and during the return trip to the laboratory. Trip blank sample bottles are not opened at any time during this process. Trip Blanks are to be reported in the laboratory results as separate samples, using "TB-(#)" as their sample point designation. If Trip Blank sample bottles are accidentally opened, note this fact on the field chain of custody record. Generally, one Trip Blank per cooler (that contains at least one VOA field sample) is recommended.

6.2 FIELD BLANKS

Field Blanks are prepared in the field, using laboratory-supplied bottles and the DI or laboratory reagent quality water. Each Field Blank should be prepared by pouring the DI water into the sample bottles at the location of one of the wells in the sampling program. The well at which the Field Blank is prepared must be identified on the Field Information Form, along with any information/observations that may explain any anomalous results (e.g., prevailing winds, upwind sources of potential degradation, etc.). Once a Field Blank is collected, it is handled and shipped in the same manner as the rest of the samples.

Field Blank results will be reported as separate samples; using "FB-(#)" as their sample designation. A minimum of one Field Blank for every 10 sampled wells or one Field Blank per day is recommended (if less than 10 wells are sampled).

6.3 EQUIPMENT BLANKS

Equipment (or rinsate) Blanks are required for all sampling events where non-dedicated down-hole (i.e., portable pumps or bailers) equipment may contact the sample. Decontamination procedures for non-dedicated equipment are outlined in Section 4.3 of this document. Equipment Blanks for non-dedicated equipment are collected by pouring the DI or laboratory reagent quality water into or over the sampling device (e.g., the bailer) after it has been properly decontaminated, then pouring the sample into the Equipment Blank bottles.

The well at which the Equipment Blank is prepared must be identified on the Field Information Form along with any information or observations that may explain any anomalous results (e.g., equipment type, prevailing winds, upwind sources of potential degradation, etc.).

Equipment Blank results will be reported as separate samples; using "EB-(#) or RB-#" as their sample designation point. A minimum of one Equipment Blank for each day that monitoring wells are sampled is recommended.

6.4 DUPLICATES AND SPLIT SAMPLES

Duplicate samples are collected in the field using a matching set of laboratory-supplied bottles and sampling from the selected well, as-requested. Each Duplicate should be sampled by alternating between the regular sample bottles and the duplicate sample bottles, in the designated sampling order (i.e., VOAs first). Duplicates should not be physically different in color, turbidity, or other physical parameters.

The well at which the Duplicate is collected must be identified on the Field Information Form, along with any information or observations that may explain any anomalous results (e.g., physical differences between samples, prevailing winds, upwind sources of potential degradation, etc.). All duplicates shall be blind (i.e., the well designation is not listed on the chain of custody). Once a duplicate is collected, it is handled and shipped in the same manner as the rest of the samples.

Duplicate results will be reported as separate samples; using "DUP-(#)" as their sample designation point. Duplicates will be analyzed by request only.

Split Samples are collected when co-sampling of a well is conducted with a third party (i.e., Regulatory Agency or External Consultant). Split Samples should be collected using the same method as a Duplicate, alternating between regular sample bottle and split sample bottle in the designated sampling order. The well at which the Split Sample(s) is collected must be identified on the Field Information Form.

Note: When samples are split with regulatory agencies, document appropriately on the Field Information Form the condition of the bottles or preservatives, sample collection methods (if different from the Rodefeld Landfill), and the selected agency laboratory.

7.0 NR 507.16 (g) – PRIVATE WELL SAMPLING

Private well sampling is usually performed in response to requests by local or state regulatory agencies. Sampling for private wells shall be conducted in a professional manner. Private wells are usually installed with minimal documentation of subsurface geologic conditions, and water is usually obtained through high volume submersible pumps.

The procedures for private well sampling are similar to those used for groundwater sampling. Refer to Section 3.0 for procedures for measuring pH, specific conductance, and temperature. Samples from private wells are taken from the tap. Therefore, it is necessary to purge the plumbing and storage tanks prior to taking a sample to ensure the sample is representative of the aquifer. To purge the plumbing, open faucets, flush the toilet, etc. to remove stagnant water in the pipes. To ensure the plumbing is being purged, listen for the well pump. The purge should be done for a minimum of 15 minutes or two to three pump cycles before sample collection.

Take samples from as close to the well source as possible, so basement faucets or outside faucets are preferable and document on the Field Information Form where the samples were taken from. Ask the well owner about any treatment equipment installed in the system for softening, iron removal, pH adjustment, or other pre-treatment measures and document on the Field Information Form.

Be sure that an aeration screen has not been installed on the faucet being used. If a screen has been installed, this must be removed before sampling (especially for organics), since the screen tends to agitate the water, and some organics could be lost. If it cannot be removed, note this on the Field Information Form.

Private well samples should not be filtered. Field measurements should be taken as required by the approved monitoring plan. Document field measurements and all sampling information on the Field Information Form.

8.0 NR 507.16 (h) – SURFACE WATER SAMPLE COLLECTION

Surface water sampling occurs from sources such as discharge points, rivers, streams, ponds, and lakes. Prior to commencing the surface water sampling activities, Field Information Forms for each sample location should be initiated. Note any areas of dead or distressed vegetation, odors, discolored water, oily sheen, weather conditions, wind direction, nearby activities, etc. Collect field measurements for pH, electrical conductivity, and temperature at each sample point prior to sampling, unless otherwise specified in the approved monitoring plan or on the laboratory information sheets. All results must be recorded on the Field Information Form.

The location of the sample point should be selected with care to ensure that a representative sample of water is obtained for testing. The sample point should be selected to avoid intrusion of bottom sediments into the sample container. Samples collected from shallow depths can readily be obtained by merely submerging the sample container below the water surface. Position the container mouth or opening so that the mouth faces in the upstream direction if flowing water is encountered. Lower the sample container into the water while still capped, uncap under water to allow the sample bottle to fill, and re-cap before removal from the water. Do not fill pre-preserved bottles using the aforementioned dipping method. The sampler will wear gloves and, when necessary, stand downstream to prevent any sources of cross-contamination and sediment disturbance.

When sampling consecutive points in streams of flowing water, begin at the farthest downstream location and proceed upstream. In separate channels or water bodies, the locations expected to exhibit the greatest impacts should be sampled last. To ensure that the surface water samples are representative, collect samples from the center of the stream or body of water (when possible) and at mid-depth.

Do not field-filter surface water samples, unless specified under local and/or state regulations or as otherwise stated in the approved monitoring plan. Sample preservation, storage, and shipment procedures should follow those described in Section 5.4.

9.0 NR 507.16 (h) – LEACHATE SAMPLE COLLECTION

This section of the Plan is applicable to sampling fluids from leachate wells, leachate manholes, or leachate retention basins. Upon arrival at the sample location, record the general condition of the sample location and its surroundings on the Field Information Form. Note any obvious odors in the vicinity of the sample point, foaming, discolored surface fluids, weather conditions, wind direction, nearby activities, leachate color, etc.

All leachate sampling equipment must be dedicated to each monitoring point. Fluid level measuring equipment used at leachate monitoring points should never be used at groundwater monitoring points. Measure leachate fluid levels prior to sample collection. Collect field measurements for pH, electrical conductivity, and temperature at each sample point prior to sampling, unless otherwise specified in the approved monitoring plan or on the laboratory information sheets.

Record all results on the Field Information Form, noting units to three significant figures. Leachate risers and manholes do not require purging prior to sample collection. Collect samples using dedicated pumping equipment or by gently lowering a dedicated or disposable bailer into the sampling location and transferring the collected liquid into the sample bottles. Do not field-filter leachate samples, unless specified in the approved monitoring plan.

Take special care when preserving leachate samples with acid, since a violent reaction may occur. Add acid slowly and carefully to the leachate samples to avoid this violent reaction. Check the pH of the leachate sample prior to shipment, and add acid to counter the buffering capacity of leachate when appropriate. Sample preservation, storage, and shipment procedures should follow those described in **Section 5.4**. Do not place leachate samples in the same coolers used for shipping groundwater, water supply, or other typically non-degraded samples.

Note: It is the sampler's responsibility to follow all appropriate health and safety procedures when collecting leachate samples. Landfill gas may be present in leachate risers. Never enter a manhole without proper gas detection and oxygen monitoring equipment, confined space training, and breathing apparatus. Avoid breathing gases emanating from a riser or manhole while collecting samples.

10.0 NR 507.16 (h) – GAS MONITORING AT GAS PROBES

Gas probe monitoring wells are installed around the perimeter of waste facility to monitor the potential movement of methane gas outside the limits of waste. Prior to gas monitoring, Field Information Forms for each sample location should be initiated and any areas of dead or distressed vegetation, odors, weather conditions, wind direction, nearby activities, etc., should be noted.

Record barometric pressure, any observations of barometric pressure (trending up, down, or remaining steady), or any other pertinent observations on the Field Information Form.

Each gas probe should have a cap with a petcock or valve with a piece of tubing and clip as a means of sealing the probe from the atmosphere. Attach the tubing on the probe to the meter and open to measure gas pressure using an Elkins Envision meter, or equivalent. Record the reading on the Field Information Form or downloaded electronically. Seal the tubing, remove the meter, and attach the gas testing meter (MSA Gasport, Landtec GEM2000, or equivalent). Open the tubing while attached to the gas meter. Run the pump on the meter approximately 2 minutes to purge and obtain stabilized percent methane and percent oxygen readings. Record these readings on Field Information Forms or downloaded electronically.

11.0 NR 507.16 (i) – SAMPLE CHAIN OF CUSTODY RECORD

To help maintain the integrity of the samples, strict chain of custody procedures are necessary. These procedures help to ensure that sample tampering does not occur. From the time the sample bottles leave the laboratory until the issuance of the analytical laboratory results, the samples or sample containers must be in the custody of an assigned Dane County representative, consultant, contractor, or laboratory. In order to maintain the chain of custody, the samples must be in sight of

the assigned custodian or locked in a tamper-proof location. A written record of sample bottle possession and any transfers of samples must be maintained and documented on the field chain of custody record.

The sample chain of custody must contain, at a minimum, the following information:

- Site name
- Station numbers (Line No. on chain of custody, ascending order)
- Date samples are collected (by sample)
- Time sample collected (by sample)
- Type of sample (composite, grab, groundwater, leachate, or surface water)
- Number of containers per sample point
- Filtering requirements
- Preservatives
- Analysis required
- Special remarks(i.e., remittance of sealed coolers via courier)

The field chain of custody record must further be signed with the date and time for the following activities:

- Receipt of the sample cooler(s).
- Each time the sample cooler is transferred to the custody of another person.
- Immediately before sealing the sample cooler for transport to the laboratory. Form must be signed and enclosed within the cooler in a watertight bag.

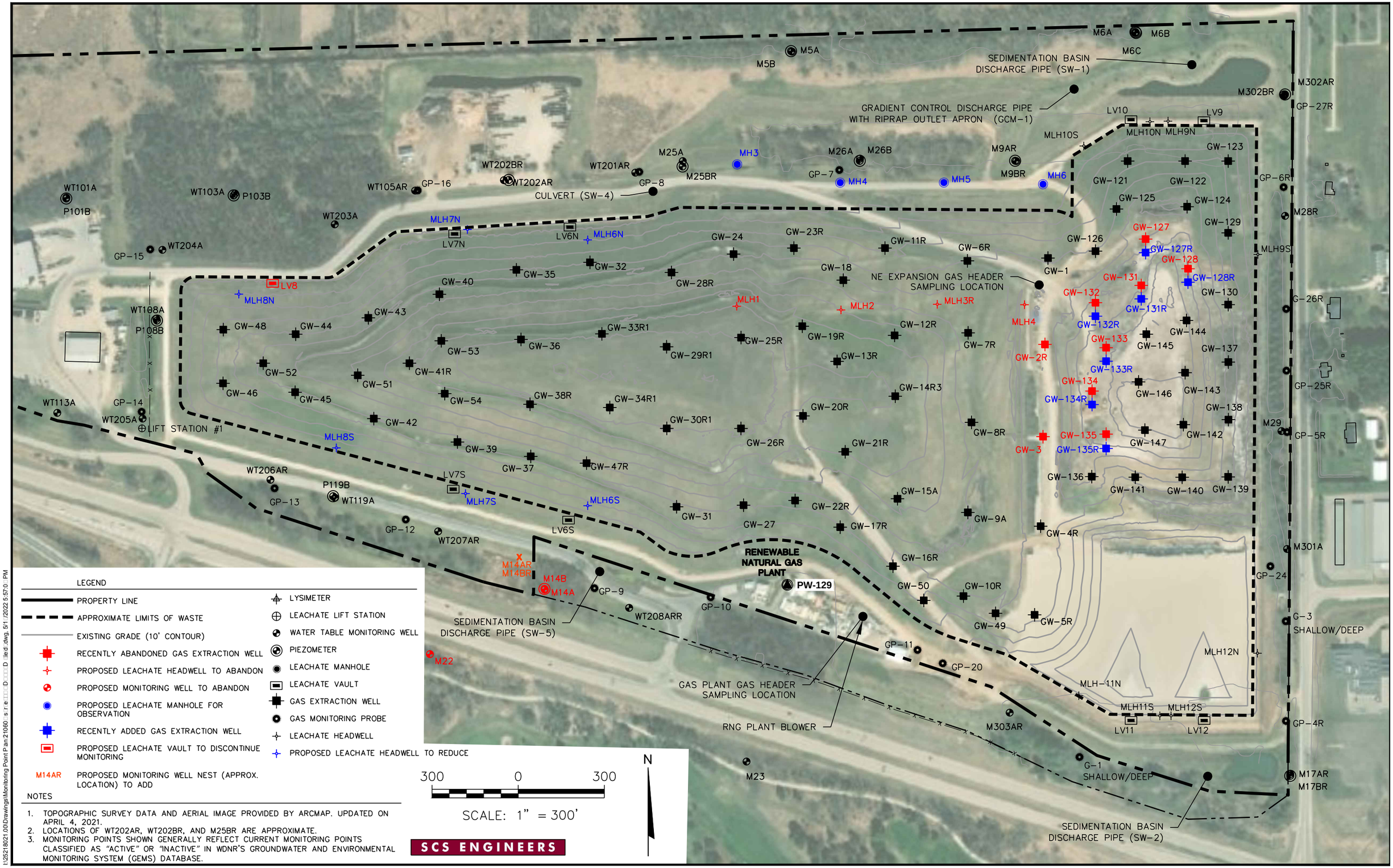
Samples from the same monitoring point that are placed in more than one sample cooler require a field chain of custody record in each sample cooler. Any problems with the sample cooler's contents must also be noted on the form. Upon receipt of the sample cooler by the lab, the condition of the samples, temperature, date, and time are recorded on the field chain of custody record by the log-in personnel receiving the sample coolers. The field chain of custody record indicates by bottle and analysis group whether samples are preserved. The sampling team must record the field filtration, preservative, and any deviations from normal preservation requirements on the chain of custody record (the sampling team should initial the forms if this information is preprinted on forms provided by the lab). Failure to complete the field chain of custody record will render the resulting data useless. An example of the Rodefeld Landfill field chain of custody form is provided in Attachment D.

Samples must be shipped to the laboratory as soon as possible, so that there is no exceedance of holding times. Due to the extremely short hold and extraction times involved with many of the methods used at the Rodefeld Landfill, all samples with short holding times (e.g., nitrates, coliform) shall be shipped on the same day that the samples are collected. It is the sampler's sole responsibility to ensure expedient delivery of samples to the laboratory, so that the samples arrive at the proper temperature and within the range of specified holding times.

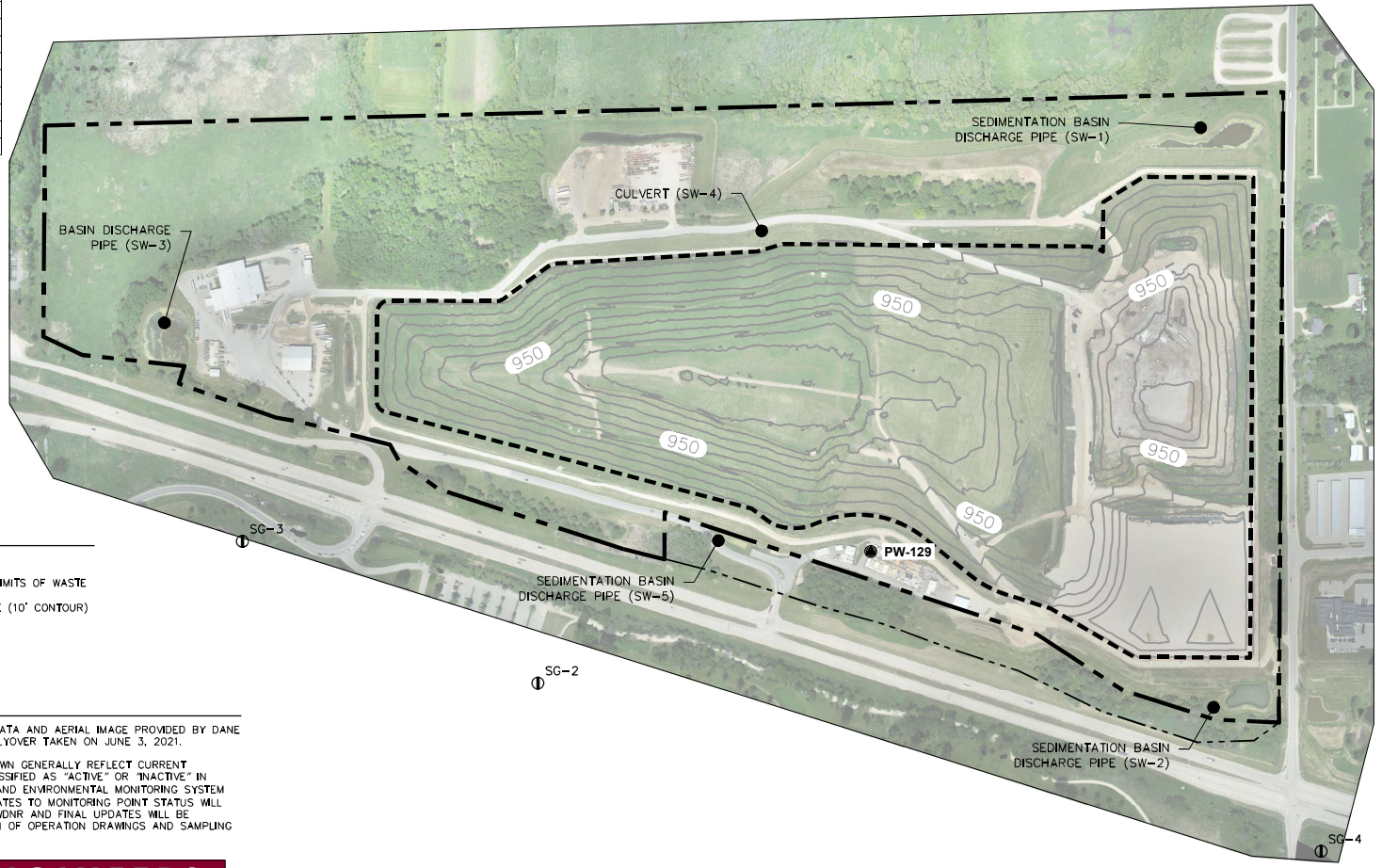
A member of the sampling team must be appointed to arrange sample pickup or transportation to the laboratory. Delivery requested on Saturday must be noted on the shipping or packing air bill for the courier. The laboratory must be notified at least 48 hours preceding the anticipated delivery. In the event of a holiday, contact the laboratory in advance for shipping instructions.

Attachment A

Site Maps


M6A
M6B
M6C
M5A
M5B
SEDIMENTATION BASIN
DISCHARGE PIPE (SW-1)
M302AR
M302BR
GP-27R
GRADIENT CONTROL DISCHARGE PIPE
WITH RIPRAP OUTLET APRON (GCM-1)
LV10
LV9
MLH10S
MLH10N
MLH9N
GW-123
M25A
MH3
M26A
M26B
M9AR
WT202BR
WT201AR
M25BR
GP-7
MH4
MH5
M9BR
MH6
GW-121
GW-122
GP-6R
WT101A
P101B
WT103A
P103B
WT105AR
GP-16
WT202AR
GP-8
CULVERT (SW-4)
GW-125
GW-124
M28R
WT203A
MLH7N
LV7N
LV6N
MLH6N
GW-129
GW-127
GW-126
GW-24
GW-23R
GW-11R
GW-6R
GW-1
MLH9S
GW-127R
GW-128
GP-15
WT204A
GW-18
NE EXPANSION GAS HEADER
SAMPLING LOCATION
GW-131
GW-128R
GW-130
LV8
GW-35
GW-32
GW-28R
GW-40
MLH8N
MLH1
MLH2
MLH3R
GW-132
GW-131R
G-26R
WT108A
P108B
GW-43
GW-48
GW-44
GW-33R1
GW-12R
GW-19R
GW-25R
GW-7R
MLH4
GW-132R
GW-144
GW-133
GW-145
GW-137
GW-53
GW-36
GW-29R1
GW-13R
GW-2R
GW-52
GW-41R
GW-133R
GW-134
GW-146
GW-143
GW-51
GW-46
GW-45
GW-54
GW-38R
GW-34R1
GW-14R3
GW-134R
GP-25R
WT113A
GP-14
WT205A
LIFT STATION #1
GW-20R
GW-138
GW-42
GW-30R1
GW-8R
GW-135
GW-142
M29
MLH8S
GW-39
GW-26R
GW-21R
GW-135R
GW-147
GP-5R
GW-3
GW-37
GW-47R
WT206AR
LV7S
GW-136
GW-141
GW-140
GW-139
P119B
WT119A
GP-13
MLH7S
MLH6S
GW-31
GW-22R
GW-15A
GW-9A
GW-4R
GW-27
GW-17R
GP-12
WT207AR
LV6S
M301A
GW-16R
GP-24
M14AR
M14BR
M14B
M14A
GW-50
GW-10R
GW-9
RENEWABLE
NATURAL GAS
PLANT
PW-129
GW-49
GW-5R
G-3
SHALLOW/DEEP
WT208ARR
GP-10
SEDIMENTATION BASIN
DISCHARGE PIPE (SW-5)
GP-11
GP-20
MLH12N
M22
GAS PLANT GAS HEADER
SAMPLING LOCATION
MLH-11N
MLH11S
MLH12S
RNG PLANT BLOWER
M303AR
LV11
LV12
GP-4R
G-1
SHALLOW/DEEP
M23
M17AR
M17BR
SEDIMENTATION BASIN
DISCHARGE PIPE (SW-2)
LEGEND
PROPERTY LINE
APPROXIMATE LIMITS OF WASTE
EXISTING GRADE (10' CONTOUR)
RECENTLY ABANDONED GAS EXTRACTION WELL
PROPOSED LEACHATE HEADWELL TO ABANDON
PROPOSED MONITORING WELL TO ABANDON
PROPOSED LEACHATE MANHOLE FOR OBSERVATION
RECENTLY ADDED GAS EXTRACTION WELL
PROPOSED LEACHATE VAULT TO DISCONTINUE MONITORING
M14AR PROPOSED MONITORING WELL NEST (APPROX. LOCATION) TO ADD
LYSIMETER
LEACHATE LIFT STATION
WATER TABLE MONITORING WELL
PIEZOMETER
LEACHATE MANHOLE
LEACHATE VAULT
GAS EXTRACTION WELL
GAS MONITORING PROBE
LEACHATE HEADWELL
PROPOSED LEACHATE HEADWELL TO REDUCE
NOTES
1. TOPOGRAPHIC SURVEY DATA AND AERIAL IMAGE PROVIDED BY ARCMAP. UPDATED ON APRIL 4, 2021.
2. LOCATIONS OF WT202AR, WT202BR, AND M25BR ARE APPROXIMATE.
3. MONITORING POINTS SHOWN GENERALLY REFLECT CURRENT MONITORING POINTS CLASSIFIED AS "ACTIVE" OR "INACTIVE" IN WDNR'S GROUNDWATER AND ENVIRONMENTAL MONITORING SYSTEM (GEMS) DATABASE.
300 0 300
SCALE: 1" = 300'
N
SCS ENGINEERS
I:\25218021.00\Drawings\Monitoring Point Plan 21060 - s r e D led .dwg, 5/1/2022 5:57:0 PM

WELL COMMON NAME	WDNR ID
COMM WELL REPLA	030
JULIE ACKER REP	032
HOPE LUTHERAN	034
PW-51 NIEBUHR	036
PW 98 COMM WELL	038
PW 99 ALAR	039
RODEFELD	100
PW 101 CROSS RD	101
PITCHER	102
MATHEWS	103
PW 104 S GUNDL	104
PW 105 SUTER	105
PW 106 R GUNDLA	106
PW 107 ACKER	107
DANE CO OFFICE	108
PW109 HOPELUTH	109
LEONHARDT	110
LANDFILL WELL	111
HOPE PARK	112
GOLF COURSE	113
ANDERSON	127
GAS PLANT WELL	129



LEGEND

- PROPERTY LINE
- APPROXIMATE LIMITS OF WASTE
- EXISTING GRADE (10' CONTOUR)
- PRIVATE WELL
- STAFF GAUGE

NOTES

1. TOPOGRAPHIC SURVEY DATA AND AERIAL IMAGE PROVIDED BY DANE COUNTY FROM AERIAL FLYOVER TAKEN ON JUNE 3, 2021.
2. MONITORING POINTS SHOWN GENERALLY REFLECT CURRENT MONITORING POINTS CLASSIFIED AS "ACTIVE" OR "INACTIVE" IN WDNR'S GROUNDWATER AND ENVIRONMENTAL MONITORING SYSTEM (GEMS) DATABASE. UPDATES TO MONITORING POINT STATUS WILL BE COORDINATED WITH WDNR AND FINAL UPDATES WILL BE PRESENTED IN THE PLAN OF OPERATION DRAWINGS AND SAMPLING PLAN FIGURE.

N

500 0 500

SCALE: 1" = 500'

SCS ENGINEERS

Attachment B

Sampling Schedule and Parameter List

Dane County Landfill
License # 3018
Environmental Monitoring Tables

Table 1a
Detection Groundwater Monitoring NR 507 Wells

Wells	DNR ID#	WUWN	Comment	Wells	DNR ID#	WUWN	Comment	Sampling & Reporting[3] Frequency	Parameter Codes	Parameters
Non-Subtitle D Wells										
Annual VOCs										
M-6A	7	BX879		WT-202AR	132	FF150		Sample Semiannually June and December	04189	Elevation, Groundwater (feet above mean sea level)
M-9AR	72	PX757		WT-202BR	134	JF020			00001	Odor
M-9BR	74	PX758		WT-203A	117	IM422			00002	Color
M-14A[1]	17	BX889		WT-204A	118	IM423			00003	Turbidity
M14B[1]	18	BX890		WT-205A	119	IM424			00010	Temperature, of water taken in field ^{0}C
M-17BR[2]	168	VT575		WT-206AR	125	BX904			00094	Field Conductivity @ 25^0 C(umho/cm)
M-23	23	BX895		WT-207AR	141	VM944			00400	Field pH (standard units)
M-25A	25	BX897		M-301A	150	VM942			00941	Chloride, filtered (mg/L)
M-25BR	130	FF149		M-302AR	172	PX760			22413	Total Hardness, filtered (mg/L)
M-26A	27	BX899		M-302BR	174	VP500			39036	Alkalinity, filtered (mg/L)
M-26B	28	BX900		M-303AR[2]	176	OX700				
M-28R	170	PX759		WT-208ARR	143	VU611				
M-29	35	EI271								
P-103B	47	FH850								
WT-108A	53	FH852								
P-108B	123	IM428								
WT-113A	57	FH854								
P-119B	67	FH858						Sample Annually June		VOCs (ug/L) Using EPA Solid Waste Method 8260 (NR 507, appendix III)
WT-201AR	124	BX903								
Subtitle D Wells										
Semiannual VOCs										
WT-103A	45	FH849						Sample Semiannually June and December	04189	Elevation, Groundwater (feet above mean sea level)
WT-105AR	126	LO774							00001	Odor
WT-119A	65	FH857							00002	Color
M-17AR[2]	166	WB260							00003	Turbidity
									00010	Temperature, of water taken in field ^{0}C
									00094	Field Conductivity @ 25^0 C(umho/cm)
									00400	Field pH (standard units)
									00941	Chloride, filtered (mg/L)
									22413	Total Hardness, filtered (mg/L)
									39036	Alkalinity, filtered (mg/L)
										VOCs (ug/L) Using EPA Solid Waste Method 8260 (NR 507, appendix III)

1. M14A and M14B to be abandoned after the June 2022 monitoring event and replaced with M14AR and M14BR (Table 1b).
2. M-17AR, M-17BR, and M-303AR are currently monitored under the baseline monitoring program (Table 1b). Upon completing baseline monitoring, they will be monitored per Table 1a.
3. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period. Trip Blank (999) and/or Field Blank (997) data must also be submitted electronically.

Dane County Landfill
License # 3018
Environmental Monitoring Tables

Table 1b
Detection Groundwater Monitoring NR 507 Well

Wells	DNR ID#	WUWN	Comment	Sampling & Reporting[1] Frequency	Parameter Codes	Parameters
Baseline Monitoring Schedule						
M17AR[2]	166	WB260		Sample	04189	Elevation, Groundwater
M17BR[2]	168	VT575		Semiannually		(feet above mean sea level)
M303AR[3]	176	OX700		June and December	00001	Odor
M14AR[4]	76	TBD			00002	Color
M14BR[4]	78	TBD			00003	Turbidity
					00010	Temperature, of water taken in field ^{0}C
					00094	Field Conductivity @ 25^0 C(umho/cm)
					00400	Field pH (standard units)
					00941	Chloride, filtered (mg/L)
					22413	Total Hardness, filtered (mg/L)
					39036	Alkalinity, filtered (mg/L)
					00620	Nitrate Nitrogen(Nitrate + Nitrite as N), total (mg/L)
					00945	Sulfate, total (mg/L)
					00951	Fluoride, total (mg/l)
					01002	Arsenic, total (ug/L)
					01007	Barium total (ug/L)
					01027	Cadmium, total (ug/L)
					01034	Chromium, total (ug/L)
					01042	Copper, total (ug/l)
					01051	Lead, total (ug/l)
					01055	Manganese, total (ug/L)
					01077	Silver, total (ug/l)
					01092	Zinc, total (ug/l)
					01147	Selenium, total (ug/l)
					71900	Mercury, total (ug/l)
VOCs						
M17AR[2]	166	WB260		Sample		
M17BR[2]	168	VT575		Semiannually		
				June 2022 only		
						VOCs (ug/L) Using EPA Solid Waste Method 8260
M303AR[3]	176	OX700		Sample		(NR 507, appendix III)
				Semiannually		
				June 2022 and December 2022		
M14AR[4]	76	TBD		Sample		
M14BR[4]	78	TBD		Semiannually		
				December 2022, June 2023, December 2023, June 2024		

1. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period.
2. After June 2022, an evaluation per NR 507.18(2)(b) will be conducted on M17AR and M17BR.
3. After December 2022, an evaluation per NR 507.18(2)(b) will be conducted for M303AR
4. M14A and M14B will be abandoned following the June 2022 monitoring event and replaced with M14AR and M14BR starting with the December 2022 monitoring event. Baseline monitoring will take place over the next 4 semi-annual monitoring events (December 2022, June 2023, December 2023, and June 2024) prior to an evaluation per NR 507.18 (2)(b).

Dane County Landfill
License # 3018
Environmental Monitoring Tables

Table 1c

Groundwater Monitoring NR 507 Wells and Gradient Control Monitoring

Wells	DNR ID#	WUWN	Comment	Sampling & Reporting[1.] Frequency	Parameter Codes	Parameters
Groundwater Elevation Only Monitoring						
Vertical Wells						
M-5A	5	BX877		Sample Annually June	04189	Elevation, Groundwater (feet above mean sea level)
M-5B	6	BX878				
M-6B	8	BX880				
M-6C	9	BX881				
WT-101A	40	FH847				
P-101B	42	FH848				
Gradient Control/Underdrain Water Level Monitoring						
GCM-1	350			Sample Semianually June and December	04189	Elevation, Groundwater (feet above mean sea level)

1. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period.

Dane County Landfill
License # 3018
Environmental Monitoring Tables

Table 1d
Private Water Supply Wells with NR 812 Variances

Well	DNR ID#	WUWN	OWNER	Comment	Sampling & Reporting[1] Frequency	Parameter Codes	Parameters
PW80	80	YL895	Community Well		Sample Quarterly March, June, September, December	00001	Odor
PW82	82	YL980	Dane County			00002	Color
PW84	84	YL983	Hope Church			00003	Turbidity
PW96	96	NG618	Niebuhr			00010	Temperature, of Water taken in field ^{0}C
PW99	99	LO890	Alar			00094	Field Conductivity @ 25^0 C(umho/cm)
PW104	104	BX912	S. Gundlach			00400	Field pH (standard units)
PW105	105	BX913	Suter			00410	Alkalinity, total (mg/L)
PW106	106	BX914	R. Gundlach			00900	Hardness, total (mg/L)
PW108	108	YA371	Dane County			00940	Chloride, total (mg/L)
PW127	127	RR567	Anderson			74010	Iron, total (mg/L)
					Sample Annually June	00620	Nitrate Nitrogen(Nitrate + Nitrite as N), total (mg/L)
						00929	Sodium, total (mg/L)
						00945	Sulfate, total (mg/L)
						00951	Fluoride, total (mg/l)
						01002	Arsenic, total (ug/L)
						01007	Barium total (ug/L)
						01027	Cadmium, total (ug/L)
						01034	Chromium, total (ug/L)
						01042	Copper, total (ug/l)
						01051	Lead, total (ug/l)
						01055	Manganese, total (ug/L)
						01077	Silver, total (ug/l)
						01092	Zinc, total (ug/l)
						01147	Selenium, total (ug/l)
						71900	Mercury, total (ug/l)
							VOCs (ug/L) Using EPA Solid Waste Method 8260 (NR 507, appendix III)
PW129	129	YZ391	Dane County		Sample Annually June	00010	Temperature, of Water taken in field ^{0}C
						00094	Field Conductivity @ 25^0 C(umho/cm)
						00400	Field pH (standard units)
						00410	Alkalinity, total (mg/L)
						00900	Hardness, total (mg/L)
						00940	Chloride, total (mg/L)
						74010	Iron, total (mg/L)
						00620	Nitrate Nitrogen(Nitrate + Nitrite as N), total (mg/L)
						00929	Sodium, total (mg/L)
						00945	Sulfate, total (mg/L)
						00951	Fluoride, total (mg/l)
						01002	Arsenic, total (ug/L)
						01007	Barium total (ug/L)
						01027	Cadmium, total (ug/L)
						01034	Chromium, total (ug/L)
						01042	Copper, total (ug/l)
						01051	Lead, total (ug/l)
						01055	Manganese, total (ug/L)
						01077	Silver, total (ug/l)
						01092	Zinc, total (ug/l)
						01147	Selenium, total (ug/l)
						71900	Mercury, total (ug/l)
							VOCs (ug/L) Using EPA Solid Waste Method 8260 (NR 507, appendix III)

1. To be reported as per code within 10 days of landfill owner's or operator's receipt of results. Trip Blank (999) and/or Field Blank (997) data must also be submitted electronically.

Dane County Landfill
License # 3018
Environmental Monitoring Tables

Table 2a
Leachate Characteristic Monitoring

Monitoring Pt.	DNR ID#	Comment	Sampling & Reporting[1,2] Frequency	Parameter Codes	Parameters
Lift Station #1 (next to MH-101)	402		Sample/Record Total Volumes Monthly Report Quarterly	00032	Leachate Volume Pumped (1000s of gallons)
			Sample Quarterly March, June, September, December	00001	Odor
				00002	Color
				00003	Turbidity
				00010	Field Temperature
				00094	Field Conductivity @ 25oC (umho/cm)
				00150	Suspended Solids, total (mg/l)
				00310	BOD (5 day @ 20°C (mg/L)
				00340	COD, unfiltered (mg/L)
				00400	Field pH, (standard units)
				00410	Alkalinity, total as CaCO3 (mg/L)
				00610	Nitrogen, Ammonia, total (mg/L as N)
				00665	Phosphorus, total (mg/l, P)
				00900	Hardness, total (mg/L as CaCO3)
					VOCs (ug/L) Using EPA Solid Waste Method 8260 (NR 507, appendix III)
			Sample Annually June	00630	Nitrate + Nitrite as N, total (mg/L)
				00951	Fluoride, total (mg/L)
				01002	Arsenic, total (mg/L)
				01007	Barium, total (ug/L)
				01012	Beryllium, total (ug/l)
				01034	Chromium, total (ug/l)
				01037	Cobalt, total (ug/l)
				01042	Copper, total (ug/l)
				01059	Thallium, total (ug/l)
				01067	Nickel, total (ug/l)
				01077	Silver, total (ug/l)
				01087	Vanadium, total (ug/l)
				01092	Zinc, total (ug/l)
				01097	Antimony, total (ug/l)
				01147	Selenium, total (ug/l)
					Semi-volatiles, using EPA Method SW-8270 (NR 507, appendix IV)

1. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period. For items indicated as "Report Semiannually", the reporting is due within 60 days after the end of the last monitoring period in the semiannual period. The semiannual periods will run January-June and July-December unless an alternative period is proposed and the Department concurs.
2. If leachate recirculation is occurring, record additional data per Leachate Recirculation Plan.

Table 2b

Leachate Headlevel and Volume Monitoring

Monitoring Pt.	DNR ID#	Comment	Sampling & Reporting[1] Frequency	Parameter Codes	Parameters
MHL-9N MHL-9S MLH-10N MLH-10S MLH-11N MLH-11S MLH-12N MLH-12S	800 802 804 806 808 810 812 814		Sample Monthly Report Quarterly	00031 99423	Depth of Leachate from top of liquid level to bottom in feet Elevation, Leachate Head feet above mean sea level
MLH-6N MLH-6S MLH-7N MLH-7S MLH-8N MLH-8S	521 522 523 524 600 602		Sample Quarterly Report Quarterly	00031 99423	Depth of Leachate from top of liquid level to bottom in feet Elevation, Leachate Head feet above mean sea level
MH3 MH4 MH5 MH6	815 816 817 818		Sample Quarterly Report Annually	N/A	Observation that leachate is draining freely
LV9 LV10 LV11 LV12	409 410 411 412		Sample Monthly Report Annually (not required until leachate recirculation begins)	00032 99723	Leachate Volume Pumped Leachate volume recirculated Note to Proposer: Not currently recirculating leachate.

1. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period. For items indicated as "Report Semiannually", the reporting is due within 60 days after the end of the last monitoring period in the semiannual period. The semiannual periods will run January-June and July-December unless an alternative period is proposed and the Department concurs.

Table 3a

Landfill Gas Extraction

Gas Extraction Well - DNR ID #						Sampling & Reporting[1.] Frequency	Parameter Codes	Parameters
Monitoring Pt	**ID#**	**Comment[1.]**	**Monitoring Pt**	**ID#**	**Comment**			
GW-1	531		GW-53	758		Sample	46385	Well Head Pressure (inches of water column)
GW-4R	593		GW-54	760		Monthly	99098	Gas Flow Rate (scfm)
GW-5R	594		GW-121	860		Report Semiannually	46388	Gas Temperature (^{0} F)
GW-6R	734		GW-122	862			46387	Valve Opening (% open)
GW-7R	595		GW-123	864			85547	Percent Methane, by volume
GW-8R	596		GW-124	866			85550	Percent Oxygen, by volume
GW-9A	562		GW-125	868			46382	Header Pressure (inches of water column)
GW-10R	597		GW-126	870			00056	Volume of liquid pumped from well (gallons/month)
GW-11R	610		GW-127R	873				
GW-12R	620		GW-128R	875				
GW-13R	622		GW-129	876				
GW-14R3	736		GW-130	878				
GW-15A	566		GW-131R	881				
GW-16R	598		GW-132R	884				
GW-17R	612		GW-133R	887				
GW-18	548		GW-134R	890		Sample	00023	Elevation, Leachate Head
GW-19R	624		GW-135R	893		Annually		feet above mean sea level
GW-20R	626		GW-136	895		June	00031	Depth of Leachate
GW-21R	628		GW-137	900				from top of liquid level to bottom in feet
GW-22R	614		GW-138	902				
GW-23R	738		GW-139	904				
GW-24	554		GW-140	906				
GW-25R	740		GW-141	908				
GW-26R	742		GW-142	910				
GW-27	557		GW-143	912				
GW-28R	574		GW-144	914				
GW-29-R1	744		GW-145	916				
GW-30R1	746		GW-146	918				
GW-31	561		GW-147	920				
GW-32	577							
GW-33R1	748							
GW-34R1	750							
GW-35	580							
GW-36	581							
GW-37	582							
GW-38R	752							
GW-39	584							
GW-40	585							
GW-41R	756							
GW-42	587							
GW-43	588							
GW-44	589							
GW-45	590							
GW-46	591							
GW-47R	754							
GW-48	604							
GW-49	606							
GW-50	608	Inactive						
GW-51	616							
GW-52	618							

Gas Blower

RNG Plant Blower	899		Sample	46382 Header Pressure (inches of water column)
West Gas Plant	530	Inactive	Monthly	98927 Gas Extracted, Total Monthly Volume (1000 cu. Ft. /month)
Flare (West Gas Plant)	699	Inactive	Report Quarterly	99098 Gas Flow Rate (scfm)
				46388 Gas Temperature (^{0} F)
				85547 Percent Methane, by volume
				85550 Percent Oxygen, by volume
			Sample	VOCs using USEPA Method TO-15
			Annually	
			June	

1. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period. For items indicated as "Report Semiannually", the reporting is due within 60 days after the end of the last monitoring period in the semiannual period. The semiannual periods will run January-June and July-December unless an alternative period is proposed and the Department concurs.

Dane County Landfill
License # 3018
Environmental Monitoring Tables

Table 3b

Landfill Gas Monitoring Probes

Monitoring Point - DNR ID #						Sampling & Reporting[1,2] Frequency	Parameter Codes	Parameters
Landfill Gas Monitoring Probes								
Monitoring Pt	**ID#**	**Comment**	**Monitoring Pt**	**ID#**	**Comment**			
GP-1S	500		GP-20	703		Sample	46389	Soil Gas Pressue (inches)
GP-1D	501		GP-24	707		Quarterly	85547	Percent Methane, by volume
GP-3S	504		GP-25R	723		March, June	85550	Percent Oxygen, by volume
GP-3D	505		GP-26R	724		September, December		
GP-4R	714		GP-27R	726				
GP-5R	717							
GP-6R	718							
GP-7	512							
GP-8	513							
GP-9	514							
GP-10	515							
GP-11	516							
GP-12	525							
GP-13	526							
GP-14	527							
GP-15	528							
GP-16	529							
Site Conditions								
Site Conditions						Record monthly at same time as blower Report Quarterly	00021	Ambient Air Temperature (^{0} F)
							00025	Barometric Pressure (mm of Hg)
							46381	Trend in Barometric Pressure
							00007	Ground Conditions 1=frozen, 2=wet, 3=dry

1. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period. For items indicated as "Report Semiannually", the reporting is due within 60 days after the end of the last monitoring period in the semiannual period. The semiannual periods will run January-June and July-December unless an alternative period is proposed and the Department concurs.
2. Immediate notification may be necessary under NR 507.22(1)(c) Wis. Adm. Code.

Dane County Landfill
License # 3018
Environmental Monitoring Tables

Table 4
Lysimeter and Surfacewater Monitoring

Monitoring Pt.	DNR ID #	Comments	Sampling & Reporting[1.] Frequency	Parameter Codes	Parameters
Lysimeters					
LS-1 LS-2 LS-3 LS-4 LS-6	300 301 302 303 304		Sample Monthly Report Semiannually	74064	Lysimeter discharge volume pumped (gal) Monitoring of volume pumped currently performed by Dane County
			Sample Annually June	00001 00002 00003 00094 00340 00400 00410 00630 00900 00929 00940 00945 01055 74010 VOCs (ug/L)	Odor Color Turbidity Field Conductivity @ 25^0 C(umho/cm) COD, Unfiltered Field pH (standard units) Alkalinity, total as CaCO3 (mg/L) Nitrate + Nitrite as N, total (mg/l) Hardness, total (mg/L as CaCO3) Sodium, total (mg/L) Chloride (mg/L) Sulfate, total (mg/L) Manganese, total (mg/L) Iron, total (mg/L) Using EPA Solid Waste Methods 8021 or 8260 (NR 507, appendix III)
Sedimentation Basins					
SW-1, NE Sed. Basin SW-2, SE Sed. Basin SW-3, West Sed. Basin SW-4, North Culvert Pipe Outlet SW-5, RNG Sed. Basin			Inspect Quarterly March, June, September, and December		Visual inspection for: Odor, Turbidity, Floating Solids, Foam, Oil Sheen[2.] Quarterly surface water monitoring currently performed by Dane County

1. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period. For items indicated as "Report Semiannually", the reporting is due within 60 days after the end of the last monitoring period in the semiannual period. The semiannual periods will run January-June and July-December unless an alternative period is proposed and the Department concurs.
2. See Storm Water Pollution Prevention Plan.

Dane County Landfill
License # 3018
Environmental Monitoring Tables

Table 5			
Settlement Monitoring			
Monitoring Point	**Sampling & Reporting[1] Frequency**	**Parameter Codes**	**Parameters**
Two cross sections as proposed, see condition 29. d.	Measure Annually June Until 5 years after closure; then every 5 years Report in Annual Report	99422	Elevation, Ground Surface feet above mean sea level Currently completed by Dane County.

1. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period.

MMSD SAMPLING PLAN

Part 2 – SAMPLING

2.01 SAMPLING FACILITIES

(1) The Permittee shall provide sampling facilities that will be accessible and that will provide representative samples of the process wastewater.
   (a) Outfall IP-44A has the capability to provide time-proportional (TP) composite samples.
   (b) Outfall volume data will be generated via a flow meter.
(2) The Permittee's sampling facility shall have sufficient room to allow the installation of sampling and flow monitoring devices.
(3) The Permittee shall locate, construct, and maintain sampling facilities according to any requirements of the District.
(4) When required, the Permittee shall submit to the District plans and specifications for construction or modification of sampling facilities at least thirty (30) days before the proposed commencement of construction or modification. If the Permittee constructs or modifies a sampling facility before District approval or without inspection during construction and if the District determines that the sampling facility is unacceptable, then the Permittee shall reconstruct or modify the sampling facility according to the requirements of the District.
(5) The Permittee shall maintain sampling facilities in a safe operating condition at all times.
(6) The Permittee shall allow the District access to all sampling facilities according to the right of entry requirements of Permit s. 5.19.

2.02 CHANGES IN SAMPLING LOCATION

The Permittee may change sampling locations only after receiving approval from the District. The District shall ensure that any change in the Permittee's sampling location will not allow the Permittee to employ dilution to meet limitations.

2.03 SELF-MONITORING SAMPLING FREQUENCY

In accordance with 40CFR sec. 403.12(e), Wis. Admin Code § NR 211.15(4)(a), and SUO § 6.4.2, the Permittee shall sample (self-monitor) *at least once* between January 1 and June 30 *and at least once* between July 1 and December 31 for flow and the SUO pollutants shown in the following table for Outfall IP-44A; other pollutants of concern have differing sampling schedules as noted in Table 3. One or more samples may be taken to show compliance with the monthly average limits for Outfall IP-44A.

Table 3. Outfall IP-44A Required Parameters & Monitoring Requirements

Parameter	Units	Minimum Sample Frequency	Sample Type	Notes
Cadmium	mg/L	*One day in each 6-mos period*	24-hr TP Comp	
Chromium	mg/L	do. [1]	24-hr TP Comp	
Copper	mg/L	do.	24-hr TP Comp	
Cyanide	mg/L	do.	Grab	
Lead	mg/L	do.	24-hr TP Comp	
Mercury	mg/L	do.	24-hr TP Comp	
Hexavalent	mg/L	do.	Grab	

Chromium				
Nickel	mg/L	do.	24-hr TP Comp	
Selenium	mg/L	do.	24-hr TP Comp	
Silver	mg/L	do.	24-hr TP Comp	
Zinc	mg/L	do.	24-hr TP Comp	
Molybdenum	mg/L	do.	24-hr TP Comp	
Chloride	mg/L	do.	24-hr TP Comp	
Sulfate	mg/L	monthly [2]	24-hr TP Comp	
Sulfide, total	mg/L	monthly [2]	24-hr TP Comp	
VOCs	µg/L	annual	Grab	First sampling prior to RNG start up and second sample during fourth month of RNG operation, using EPA method 8260B
SVOCs	µg/L	do.	do.	First sampling prior to RNG start up and second sample during fourth month of RNG operation, using EPA method 8270D
Methane in water via headspace analysis	µg/L	do.	do.	do.
Volatile fatty acids via isolation and quantification method	µg/L	do.	do.	do.
pH	S.U.	One reading during each sampling event	Grab	Instantaneous reading by a freshly calibrated probe
Flow, daily	Gal/day	Daily roll-up		Provide landfill daily average flows via monthly roll-up

Remarks for Table 3:

[1] do. means ditto or repeat of the previous remark in the table column

[2] sulfate and sulfide samples shall be collected at least monthly **during the first six months** following permit issue; thereafter the sampling frequency shall be at least one day in each six month period as shown for the metals.

2.04 REPRESENTATIVE SAMPLES

The Permittee's self-monitoring shall represent production activities and discharges normally occurring during the reporting period. In accordance with SUO § 2.1(36), a representative sample shall mean a

sample of the appropriate wastewater stream collected using 24-hour time proportional composite sampling techniques where feasible unless another sampling technique is specified by this permit.

2.05 SAMPLE COLLECTION AND ANALYSIS

(1) The Permittee shall measure daily wastewater volume from each monitoring point during each monitoring event.

(2) Individual grab samples must be taken for the following parameters: hexane extractable material (oil and grease), cyanide, hexavalent chromium, and volatile organic compounds. Analytical methods do not allow the application of composite sampling techniques for these parameters.

(3) For all other parameters, this Permit allows that the Permittee may collect twenty-four (24) hour **time-proportioned outfall samples**

(4) The Permittee shall collect, preserve, and analyze samples using techniques that provide sufficient precision and accuracy to measure the regulated pollutants at or below the applicable limit to a reasonable degree of scientific certainty, using analytical methods included in 40CFR sec. 135 or Wis. Admin. Code ch. NR 219, or other methods approved by the Department of Natural Resources. For analysis, the Permittee, whenever possible, shall use a laboratory certified or registered by the Department of Natural Resources, according with Wis. Admin Code ch. NR 149, for the parameter being analyzed. With prior District approval, the Permittee may be allowed to use a laboratory not certified or registered in Wisconsin in accordance with Wis. Admin. Code § NR 211.15(8).

(5) Measurement of pH:

(a) Grab samples must be employed for measurement of pH with a portable meter calibrated on the day of analysis according to the manufacturer instructions;

(b) Portable meter calibration data and pH measurements of samples shall be maintained with any records generated in a same-day sample collection event made in accordance with Permit ss. 3.01 (2), (3);

(c) Outfall pH measurements taken with a portable meter at least five minutes apart shall be considered unique samples with each result being reportable to the District in accordance with Permit s. 3.01 (2).

(d) When allowed by this permit, the Permittee may employ continuously logged pH measuring probe(s) at Outfall IP-44A.

(6) The Permittee shall perform sampling that is independent of District sampling:

(a) Samples collected by the Permittee, in accordance with Permit s. 2.01, shall be independent of samples collected by the District and shall be collected on dates differing from District sampling;

(b) The District will not provide the Permittee sample splits from District sampling events; Parallel sampling devices may be employed by the Permittee at the time of District sampling to achieve the equivalent of split samples;

(c) Any violation of discharge standards determined in District sampling events will be followed by repeat sampling and analysis. Repeat sampling can involve either:

i. The District shall perform the repeat sampling and analysis; or

ii. The Permittee will be notified of the violation and will be required to perform repeat sampling and analysis in lieu of the District collecting additional samples.

Attachment C

Sampling Containers, Preservation, and Holding Time Requirements

Eurofins TestAmerica, Milwaukee
4125 N. 124th Street
Suites E & F
Brookfield, WI 53005

Prepared for:

Zana Bajalan
SCS Engineers
2830 Dairy Drive
Madison, WI 53718-6751
ZBajalan@scsengineers.com

Prepared by Campbell, Donna L
Date
Expiration Date
Est. Start Date 4/16/2018

Project: Rodefeld LF - 25218021.21 *Quote Number: 50014474 - No Version*

Analytical Sample Information

Analysis Method	Matrix	Preservative	Client Sub List Desc Container	Volume Required	Holding Time
Ammonia			Ammonia		
SM4500NH3_G	Solid	None	Clear Glass 8oz Wide - unpreserved	5 g	28 Days
Anions, Ion Chromatography			Chloride/Fluoride/Sulfate		
300	Solid	None	Clear Glass 8oz Wide - unpreserved	10 g	48 Hours
Chlorine, Total			Chlorine, Total		
9251_Total_Cl	Solid	None	Clear Glass 8oz Wide - unpreserved	0 g	28 Days
Chromium, Hexavalent			Chromium, Hexavalent		
7196A	Solid	None	Clear Glass 8oz Wide - unpreserved	5 g	30 Days
Cyanide			Cyanide		
9014	Solid	None	Clear Glass 8oz Wide - unpreserved	5 g	14 Days
Cyanide, Total andor Amenable			Cyanide, Total		
9012B	Solid	None	Clear Glass 8oz Wide - unpreserved	0 g	14 Days
Ignitability, Pensky-Martens Closed-Cup Method			Ignitability		
1010A	Solid	None	Clear Glass 8oz Wide - unpreserved	150 g	
Mercury (CVAA)			Mercury (CVAA)		
7470A	Solid	None	Clear Glass 16oz Wide - unpreserved	150 g	14 Days
Mercury (CVAA)			Mercury (CVAA)		
7471B	Solid	None	Clear Glass 8oz Wide - unpreserved	5 g	28 Days
Metals (ICP)			Metals (18)		
6010C	Solid	None	Clear Glass 8oz Wide - unpreserved	5 g	180 Days
Metals (ICP)			Metals - Hg		
6010B	Solid	None	Clear Glass 16oz Wide - unpreserved	150 g	14 Days
Metals (ICP)			Sulfur		
6010C	Solid	None	Clear Glass 4oz Wide - unpreserved	5 g	180 Days
Nitrogen, Nitrate-Nitrite			N+N		
353.2	Solid	None	Clear Glass 8oz Wide - unpreserved	10 g	28 Days
Nitrogen, Total Kjeldahl			TKN		
SM4500_TKN_H	Solid	None	Clear Glass 8oz Wide - unpreserved	5 g	28 Days
Paint Filter			Paint Filter		
9095B	Solid	None	Clear Glass 8oz Wide - unpreserved	125 g	
Percent Moisture			Percent Moisture		

Eurofins TestAmerica, Milwaukee
4125 N. 124th Street
Suites E & F
Brookfield, WI 53005

Prepared for:
Zana Bajalan
SCS Engineers
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ZBajalan@scsengineers.com

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Moisture	Solid	None	Clear Glass 8oz Wide - unpreserved	20 g	14 Days
pH			pH		
9045C	Solid	None	Clear Glass 8oz Wide - unpreserved	30 g	IMMEDIATELY
pH			pH		
9045D	Solid	None	Clear Glass 8oz Wide - unpreserved	30 g	IMMEDIATELY
Phosphorus			Phosphorus		
4500_P_E	Solid	None	Clear Glass 8oz Wide - unpreserved	5 g	28 Days
Polychlorinated Biphenyls (PCBs) by Gas Chromatography			PCB		
8082A	Solid	None	Clear Glass 8oz Wide - unpreserved	20 g	14 Days
Semivolatile Organic Compounds (GC/MS)			SVOC		
8270D	Solid	None	Clear Glass 16oz Wide - unpreserved	150 g	14 Days
Semivolatile Organic Compounds (GC/MS)			SVOC		
8270D	Solid	None	Clear Glass 8oz Wide - unpreserved	20 g	14 Days
Specific Gravity, Density			Specific Gravity		
2710F	Solid	None	Clear Glass 8oz Wide - unpreserved	30 g	28 Days
Sulfide, Acid soluble and Insoluble (Titrimetric)			Sulfide		
9034_Calc	Solid	None	Clear Glass 8oz Wide - unpreserved	5 g	7 Days
Sulfide, Acid soluble and Insoluble (Titrimetric)			Sulfide, Acid soluble and Insoluble (Titrimetric)		
9034_Calc	Solid	None	Clear Glass 8oz Wide - unpreserved	5 g	7 Days
Sulfide, Reactive			Sulfide, Reactive		
9034_Reactive	Solid	None	Clear Glass 8oz Wide - unpreserved	5 g	14 Days
Total, Fixed, and Volatile Solids			Total Solids		
2540G	Solid	None	Clear Glass 8oz Wide - unpreserved	15 g	7 Days
Volatile Organic Compounds (GC/MS)			VOC		
8260B	Solid	None	Clear Glass 4oz Wide - unpreserved	100 g	14 Days
Volatile Organic Compounds (GC/MS)			VOC		
8260B	Solid	None	VOA Terracore Kit Pre-pkg MeOH Only	1 NONE	14 Days
Alkalinity			Alkalinity		
2320B	Water	None	Plastic 1 liter - unpreserved	100 mL	14 Days
Ammonia			Ammonia		
SM4500NH3_G	Water	Sulfuric Acid	Plastic 500ml - with Sulfuric Acid	175 mL	28 Days
Anions, Ion Chromatography			3 Anions - Cl, SO4, F		
300	Water	None	Plastic 250ml - unpreserved	75 mL	48 Hours
Anions, Ion Chromatography			Anions by IC - Cl		
300	Water	None	Plastic 250ml - unpreserved	75 mL	48 Hours

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SCS Engineers
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Anions, Ion Chromatography 300	Water	None	Anions by IC - Cl, SO4 Plastic 250ml - unpreserved	75 mL	48 Hours
Anions, Ion Chromatography 300	Water	None	Anions by IC - SO4 Plastic 250ml - unpreserved	75 mL	48 Hours
Anions, Ion Chromatography 300	Water	None	Chloride/Fluoride/Sulfate - Diss Plastic 250ml - unpreserved	75 mL	48 Hours
Anions, Ion Chromatography 300	Water	None	Chloride/Sulfate Plastic 250ml - unpreserved	75 mL	48 Hours
Anions, Ion Chromatography 300	Water	None	Sulfate, Dissolved Plastic 250ml - unpreserved	75 mL	48 Hours
BOD, 5-Day 5210B	Water	None	BOD, 5-Day Plastic 1 liter - unpreserved	500 mL	48 Hours
BOD, 5-Day 5210B	Water	None	CBOD, 5-Day Plastic 1 liter - unpreserved	500 mL	48 Hours
Chromium, Hexavalent 3500_CR_B	Water	None	Chromium, Hexavalent Plastic 500ml - unpreserved	175 mL	24 Hours
COD 5220C	Water	Sulfuric Acid	COD Plastic 500ml - with Sulfuric Acid	50 mL	28 Days
Cyanide, Total 4500_CN_E	Water	Sodium Hydroxide	Cyanide Plastic 250ml - with Sodium Hydroxide	75 mL	14 Days
Cyanide, Total 335.4	Water	Sodium Hydroxide	Cyanide, Total Plastic 250ml - with Sodium Hydroxide	75 mL	14 Days
Cyanide, Total 4500_CN_E	Water	Sodium Hydroxide	Cyanide, Total Plastic 250ml - with Sodium Hydroxide	75 mL	14 Days
Dissolved Gases (GC) RSK_175	Water	Hydrochloric Acid	Dissolved Gases (GC) Methane Voa Vial 40ml - Hydrochloric Acid	120 mL	14 Days
Dissolved Gases (GC) RSK_175	Water	Hydrochloric Acid	Methane Voa Vial 40ml - Hydrochloric Acid	120 mL	14 Days
Field Sampling FieldSampling	Water	None	Field Data Entry Field Container	0 NONE	
Mercury (CVAA) 7470A	Water	Nitric Acid	Mercury Plastic 250ml - with Nitric Acid	50 mL	28 Days
Mercury (CVAA) 245.1	Water	Nitric Acid	Mercury (CVAA) Plastic 250ml - with Nitric Acid	50 mL	28 Days
Mercury (CVAA) 7470A	Water	Nitric Acid	Mercury (CVAA) Plastic 250ml - with Nitric Acid	50 mL	28 Days
Metals (ICP)			Metals (9)		

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200.7	Water	Nitric Acid	Plastic 250ml - with Nitric Acid	75 mL	180 Days
Metals (ICP)			Metals (9)		
6010C	Water	Nitric Acid	Plastic 250ml - with Nitric Acid	75 mL	180 Days
Metals (ICP)			Metals (ICP) (10)		
6010B	Water	Nitric Acid	Plastic 250ml - with Nitric Acid	75 mL	180 Days
Metals (ICP)			Metals (ICP) - 11 elements		
6010B	Water	Nitric Acid	Plastic 250ml - with Nitric Acid	75 mL	180 Days
Metals (ICP)			Metals (ICP) - 18 elements		
6010B	Water	Nitric Acid	Plastic 250ml - with Nitric Acid	75 mL	180 Days
Metals (ICP)			Metals (ICP) - 19 elements		
6010B	Water	Nitric Acid	Plastic 250ml - with Nitric Acid	75 mL	180 Days
Metals (ICP)			Metals (ICP) - 3 elements		
6010B	Water	Nitric Acid	Plastic 250ml - with Nitric Acid	75 mL	180 Days
Metals (ICP)			Metals (ICP) - 9 elements		
6010B	Water	Nitric Acid	Plastic 250ml - with Nitric Acid	75 mL	180 Days
Metals (ICP)			Metals (ICP) - Iron only		
6010B	Water	Nitric Acid	Plastic 250ml - with Nitric Acid	75 mL	180 Days
Metals (ICP)			Metals (ICP) - Sulfur only		
6010C	Water	Nitric Acid	Plastic 250ml - w/nitric - dis	50 mL	180 Days
Metals (ICP)			Metals (ICP) - Sulfur only		
6010C	Water	Nitric Acid	Plastic 250ml - with Nitric Acid	50 mL	180 Days
Metals (ICP)			Sulfur		
6010C	Water	Nitric Acid	Plastic 250ml - w/nitric - dis	50 mL	180 Days
Metals (ICP)			Sulfur		
6010C	Water	Nitric Acid	Plastic 250ml - with Nitric Acid	50 mL	180 Days
Metals (ICP)			Sulfur		
6010C	Water	None	Plastic 250ml - unpreserved	50 mL	180 Days
Nitrogen, Nitrate-Nitrite			Nitrogen, Nitrate-Nitrite		
353.2	Water	Sulfuric Acid	Plastic 500ml - with Sulfuric Acid	75 mL	28 Days
Nitrogen, Total Kjeldahl			Nitrogen, Total Kjeldahl		
SM4500_TKN_H	Water	Sulfuric Acid	Plastic 500ml - with Sulfuric Acid	175 mL	28 Days
Phosphorus			Phosphorus		
4500_P_E	Water	Sulfuric Acid	Plastic 500ml - with Sulfuric Acid	100 mL	28 Days
Semivolatile Organic Compounds (GC/MS)			Semivolatile Organic Compounds (GC/MS)		
8270D	Water	None	Amber Glass 1 liter - unpreserved	2000 mL	7 Days

Eurofins TestAmerica, Milwaukee
4125 N. 124th Street
Suites E & F
Brookfield, WI 53005

Prepared for:

Zana Bajalan
SCS Engineers
2830 Dairy Drive
Madison, WI 53718-6751
ZBajalan@scsengineers.com

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Semivolatile Organic Compounds (GC/MS)			Semivolatile Organic Compounds (GC/MS)		
8270D	Water	None	Amber Glass 250ml - unpreserved	500 mL	7 Days
Semivolatile Organic Compounds (GC/MS)			SVOC		
625	Water	None	Amber Glass 250ml - unpreserved	500 mL	7 Days
Solids, Total Suspended (TSS)			Solids, Total Suspended (TSS)		
2540D	Water	None	Plastic 1 liter - unpreserved	300 mL	7 Days
Sulfide, Total			Sulfide		
SM4500_S2_F	Water	Zinc Acetate and Sodium Hydroxide	Plastic 1 liter - Zn Acetate and NaOH	400 mL	7 Days
Sulfide, Total			Sulfide, Total		
SM4500_S2_D	Water	Zinc Acetate and Sodium Hydroxide	Plastic 250ml - with Zinc Acetate & NaOH	250 mL	7 Days
Sulfide, Total			Sulfide, Total		
SM4500_S2_F	Water	Zinc Acetate and Sodium Hydroxide	Plastic 1 liter - Zn Acetate and NaOH	400 mL	7 Days
Sulfide, Total			Sulfide, Total		
SM4500_S2_F	Water	Zinc Acetate and Sodium Hydroxide	Plastic 250ml - with Zinc Acetate & NaOH	50 mL	7 Days
Total Hardness (as CaCO3) by calculation			Total Hardness (as CaCO3) by calculation		
SM2340B	Water	Nitric Acid	Plastic 250ml - with Nitric Acid	75 mL	180 Days
Volatile Fatty Acids, Ion Chromatography			Volatile Fatty Acids		
VFA_IC	Water	None	Voa Vial 40ml Amber - unpreserved	120 mL	28 Days
Volatile Fatty Acids, Ion Chromatography			Volatile Fatty Acids, Ion Chromatography		
VFA_IC	Water	None	Voa Vial 40ml Amber - unpreserved	120 mL	28 Days
Volatile Organic Compounds (GC/MS)			VOC		
624_5ml	Water	Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	120 mL	14 Days
Volatile Organic Compounds (GC/MS)			Volatile Organic Compounds (GC/MS)		
524.2_Preserved	Water	Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	120 mL	14 Days
Volatile Organic Compounds (GC/MS)			Volatile Organic Compounds (GC/MS)		
8260B	Water	Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	120 mL	14 Days

Hold Times listed above represent the minimum allotted time between sampling and lab extraction, prep or analysis.

Multiple analyses may be consolidated into fewer containers. Please contact your Project Manager for clarification when requesting sample containers.

Except for some special tests, all samples should be kept cold at 6 degrees C.

Attachment D

Chain of Custody Form and Field Information Form

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

Chain of Custody Record

Client Information	Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Client Contact:	Phone:	E-Mail:		Page:
Company:				Job #:

Address:	**Due Date Requested:**
City:	**TAT Requested (days):**
State, Zip:	
Phone:	PO #:
Email:	WO #:
Project Name:	Project #:
Site:	SSOW#:

Preservation Codes:

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

Other:

Sample Identification	**Sample Date**	**Sample Time**	**Sample Type (C=comp, G=grab)**	**Matrix** (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	**Perform MS/MSD (Yes or No)**												**Total Number of containers**	**Special Instructions/Note:**
			Filtered (Y/N)		X													
			Preservation Code:		X													

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

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ■ *Disposal By Lab* ☐ *Archive For _____ Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Groundwater Monitoring Field Sheets

Facility / Project Name: Dane County Landfill Site #2

Facility ID#:

Weather Conditions: _____

Person(s) Sampling: _____

Multi Meter (pH, Temp, Cond.) **Model:** _____ **Serial Number:** _____

Multi Meter Calibration **pH Standard: 4** **Instrument Reading:** _____

pH Standard: 7 **Instrument Reading:** _____

Conductivity Standard: 1413 µS **Instrument Reading:** _____

Water Level Tape **Serial Number:** _____

Well ID	DNR ID	Date	Depth to Water (feet)	Total Depth (feet)	Top of Casing (ft)	Groundwater Elevation (ft/msl)	4 Well Volumes (gal)	Actual Purged Volume (gal)	Purged Dry?	Purging Device	Field Conductivity (uMhos / cm)	Field Temperature (Celsius)	Field pH	Odor	Color	Turbidity	Sample Time	Lock ok? (Y/N)	Label ok? (Y/N)	Comments
PARAM #																				

I:\25220091.00\Deliverables\FR Addendum No 1\F_Sampling Plan\Attachment C\[Rodefeld GW Fieldsheet_generic.xls]Rodefeld GW Fieldsheet

DANE COUNTY LANDFILL SITE #2
MONTHLY LEACHATE MONITORING
WNDR LANDFILL SITE #03018

Personnel: ______________________________

Water Level Tape Serial Number: ______________________________

DNR ID	Monit. Point	Date	Type of Measurment	Measurement
Vertical Leachate Head Wells				
			Bottom of Well Elevation (feet) =	
			Leachate Elevation (ft) *(Depth + Bottom of Well Elev.) =*	
			Estimated Clay Liner Elevation (ft) =	
			Depth to leachate (ft) =	
			Depth to bottom of LHW (ft) =	
			Leachate Depth ***(Depth to bottom of LHW - Depth to leachate)(ft) =***	
			Bottom of Well Elevation (feet) =	
			Leachate Elevation (ft) *(Depth + Bottom of Well Elev.) =*	
			Estimated Clay Liner Elevation (ft) =	
			Depth to leachate (ft) =	
			Depth to bottom of LHW (ft) =	
			Leachate Depth ***(Depth to bottom of LHW - Depth to leachate)(ft) =***	
			Bottom of Well Elevation (feet) =	
			Leachate Elevation (ft) *(Depth + Bottom of Well Elev.) =*	
			Estimated Clay Liner Elevation (ft) =	
			Depth to leachate (ft) =	
			Depth to bottom of LHW (ft) =	
			Leachate Depth ***(Depth to bottom of LHW - Depth to leachate)(ft) =***	
Horizontal Leachate Head Wells				
			Depth of leachate (inches) =	
			Elevation of Landfill Liner (ft) =	
			Leachate Elevation (ft) *(Depth + Liner Elevation) =*	
			Depth of leachate (inches) =	
			Elevation of Landfill Liner (ft) =	
			Leachate Elevation (ft) *(Depth + Liner Elevation) =*	
			Depth of leachate (inches) =	
			Elevation of Landfill Liner (ft) =	
			Leachate Elevation (ft) *(Depth + Liner Elevation) =*	
			Depth of leachate (inches) =	
			Elevation of Landfill Liner (ft) =	
			Leachate Elevation (ft) *(Depth + Liner Elevation) =*	
Manhole Observations				
			Free Draining? (Yes/No)	
			Obstructions? (Yes/No) (If yes, describe.)	
			Free Draining? (Yes/No)	
			Obstructions? (Yes/No) (If yes, describe.)	
			Free Draining? (Yes/No)	
			Obstructions? (Yes/No) (If yes, describe.)	
			Free Draining? (Yes/No)	
			Obstructions? (Yes/No) (If yes, describe.)	

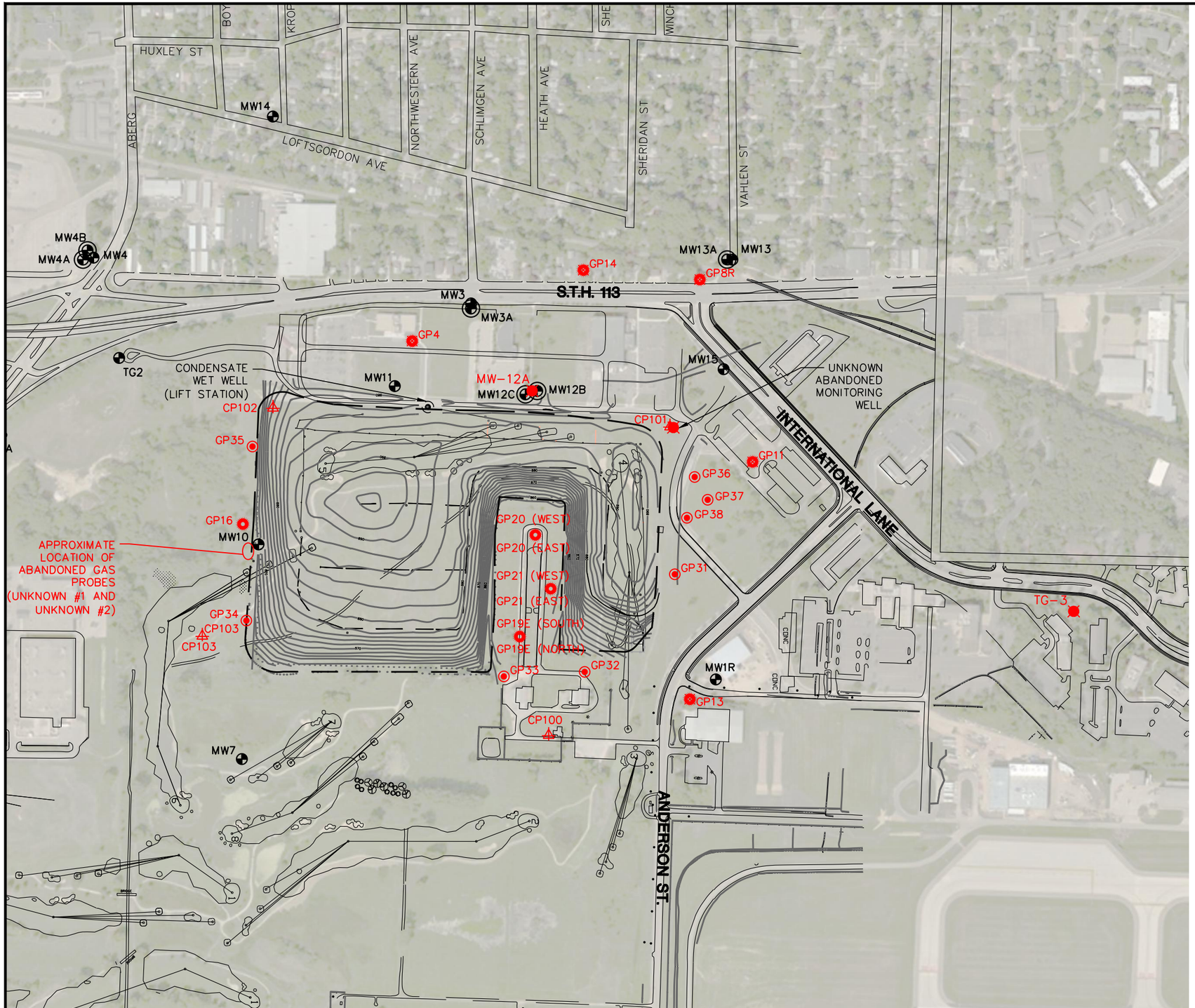
Attachment 3

Dane County Truax Landfill
License # 3306
Environmental Monitoring Tables

Table 1 - Groundwater Monitoring						
Wells	**DNR ID#**	**Wells**	**DNR ID#**	**Sampling & Reporting[1.] Frequency**	**Parameter Codes**	**Parameters**
Groundwater Monitoring Wells						
MW-3A MW-4B MW-5B MW-12B MW-12C MW-14	009 015 021 073 077 071			Sample Semiannually March and September	04189 00001 00002 00003 00010 00094 00400 00631 00946 01000 01007 01025 01046 01049 01056 22413 39036	Elevation, Groundwater (ft above MSL) Odor Color Turbidity Temperature, of water taken in field ^{u}C Field Conductivity @ 25^{0} C (umho/cm) Field pH (standard units) Nitrite plus Nitrate, dissolved (mg/l as N) Sulfate, dissolved (mg/l) Arsenic, dissolved (ug/l) Barium, total (ug/l) Cadmium, dissolved (ug/l) Iron, dissolved (mg/l) Lead, dissolved (ug/l) Manganese, dissolved (ug/l) Total Hardness, filtered (mg/L) Alkalinity, filtered (mg/L)
				Sample Annually September		VOCs (ug/L), EPA Method 8260 (NR 507, App III)
MW-1R MW-3 MW-4 MW-4A MW-5 MW-5A MW-7 MW-10 MW-11 MW-13 MW-13A MW-15	002 007 011 013 017 019 025 031 063 067 069 079			Sample Annually September	04189 00001 00002 00003 00010 00094 00400 00631 00946 01000 01005 01025 01046 01049 01056 22413 39036	Elevation, Groundwater (ft above MSL) Odor Color Turbidity Temperature, of water taken in field ^{0}C Field Conductivity @ 25^{0} C (umho/cm) Field pH (standard units) Nitrite plus Nitrate, dissolved (mg/l as N) Sulfate, dissolved (mg/l) Arsenic, dissolved (ug/l) Barium, total (ug/l) Cadmium, dissolved (ug/l) Iron, dissolved (mg/l) Lead, dissolved (ug/l) Manganese, dissolved (ug/l) Total Hardness, filtered (mg/L) Alkalinity, filtered (mg/L)

1. Unless specifically stated, reporting is as per code typically within 60 days after the end of the specified monitoring period.
Trip Blank (999) and/or Field Blank (997) data must also be submitted electronically.

Figure 3



LEGEND

APPROXIMATE LIMITS OF WASTE	
MW3	WATER TABLE MONITORING WELL
MW3A	PIEZOMETER
	CONDENSATE WET WELL LIFT STATION
GP31	NEW 2019 GAS MONITORING PROBE
GP16	2019 REPAIRED GAS MONITORING PROBE
GP14	2019 ABANDONED GAS PROBE
MW-12A	2019 ABANDONED MONITORING WELL
CP101	SURVEY CONTROL POINT

NOTE:

1. BASE MAP PROVIDED BY RMT 08/15/02.
2. MAP SHOWS CURRENT MONITORING WELL NETWORK AND WELLS ABANDONED IN MAY/NOVEMBER 2019.
3. MAP SHOWS ONLY GAS PROBES WHICH WERE INSTALLED, ABANDONED OR REPAIRED IN MAY/NOVEMBER 2019.

SURVEY CONTROL TABLE

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	499,239.9	831,025.6	853.40	CP100
101	499,810.4	829,574.6	855.01	CP101
102	497,943.5	829,486.0	877.11	CP102
103	497,611.2	830,558.6	852.07	CP103

500 0 500

SCALE: 1" = 500'

N

PROJECT NO.	25217087.19	DRAWN BY:	CS/ZB/KP
DRAWN:	08/16/02	CHECKED BY:	RL/CJ
REVISED:	11/22/19	APPROVED BY:	

ENGINEER: SCS ENGINEERS
2830 DAIRY DRIVE MADISON, WI 53718-6751
PHONE: (608) 224-2830

CLIENT: DANE COUNTY REGIONAL AIRPORT
4000 INTERNATIONAL LANE
MADISON, WI 53704

SITE: TRUAX LANDFILL
DANE COUNTY REGIONAL AIRPORT
MADISON, WI

SITE MAP-MONITORING POINT DOCUMENTATION REPORT

FIGURE 2

I:\25217087.19\Drawings\[illegible].dwg, 1/27/2020 [illegible]:09:06 PM

Department of Waste & Renewables

John Welch, P.E.
Director

Deputy Director
Roxanne Wienkes

Joseph T. Parisi
County Executive

1919 Alliant Energy Center Way
Madison, Wisconsin 53713

https://landfill.countyofdane.com/

SECTION 00 42 13

PROPOSAL FORM

PROPOSAL NO. 322039
PROJECT: ENVIRONMENTAL MONITORING SERVICES
1919 ALLIANT ENERGY CENTER WAY
MADISON, WISCONSIN

The undersigned, submitting this Proposal, hereby agrees with all terms, conditions and requirements of the above referenced Request for Proposals, and declares that the attached Proposal and pricing are in conformity therewith.

SIGNATURE: _____

(Proposal is invalid without signature)

Print or Type Name: _____ Date: _____

Title: _____

Company: _____

Address: _____

Telephone No.: _____ Fax No.: _____

Email Address: _____

Contact Person: _____

Receipt of the following addenda and inclusion of their provisions in this Proposal is hereby acknowledged:

Addendum No(s). _____ through _____

Dated _____

All Proposers are strongly encouraged to be a registered vendor with Dane County. Registering allows vendors an opportunity to receive notifications for RFPs & RFBs issued by the County and provides the County with up-to-date company contact information. Complete a new form or renewal online at: danepurchasing.com/Account/Login?.

DANE COUNTY CONTRACT # _____

Revised 06/2021

Department:	
Provider:	
Expiration Date:	
Maximum Cost:	$
Registered Agent (if applicable):	
Registered Agent Address:	

THIS AGREEMENT, made and entered into, by and between the County of Dane (hereafter referred to as "COUNTY") and [ ] (hereafter, "PROVIDER"),

W I T N E S S E T H:

WHEREAS COUNTY, whose address is 1919 Alliant Energy Center Way, Madison, Wisconsin , desires to purchase services from PROVIDER for the purpose of obtaining professional engineering services; and

WHEREAS PROVIDER, whose address is [ ], is able and willing to provide such services;

NOW, THEREFORE, in consideration of the above premises and the mutual covenants of the parties hereinafter set forth, the receipt and sufficiency of which is acknowledged by each party for itself, COUNTY and PROVIDER do agree as follows:

I. TERM:

The term of this Agreement shall commence as of the date by which all parties have executed this Agreement and shall end as of the EXPIRATION DATE set forth on page 1 hereof, unless sooner agreed to in writing by the parties. PROVIDER shall complete its obligations under this Agreement not later than the EXPIRATION DATE. COUNTY shall not be liable for any services performed by PROVIDER other than during the term of this Agreement. COUNTY shall never pay more than the Maximum Cost as stated above for all services. Upon failure of PROVIDER to complete its obligation set forth herein by the EXPIRATION DATE, COUNTY may invoke the penalties, if any, set forth in this document and its attachments.

II. SERVICES:

A. PROVIDER agrees to provide the services detailed in the bid specifications, if any; the request for proposals (RFP) and PROVIDER's response thereto, if any; and on the attached Schedule A, which is fully incorporated herein by reference. In the event of a conflict between or among the bid specifications, the RFP or responses thereto, or the terms of Schedule A or any of them, it is agreed that the terms of Schedule A, to the extent of any conflict, are controlling.

B. PROVIDER shall commence, carry on and complete its obligations under this Agreement with all deliberate speed and in a sound, economical and efficient manner, in accordance with this Agreement and all applicable laws. In providing services under this Agreement, PROVIDER agrees to cooperate with the various departments, agencies, employees and officers of COUNTY.

C. PROVIDER agrees to secure at PROVIDER's own expense all personnel necessary to carry out PROVIDER's obligations under this Agreement. Such personnel shall not be deemed to be employees of COUNTY nor shall they or any of them have or be deemed to have any direct contractual relationship with COUNTY.

D. No portion of funds under this Agreement may be used to support or advance religious activities.

E. PROVIDER warrants that it has complied with all necessary requirements to do business in the State of Wisconsin and has met all state and federal service standards, certifications and assurances as expressed by State and Federal statutes, rules, and regulations applicable to the services covered by this Agreement.

F. PROVIDER will follow applicable public health guidelines to provide safe services and a safe workplace. In addition, by signing this Agreement, PROVIDER acknowledges the contagious nature of COVID-19 and voluntarily assumes the risk that PROVIDER and its staff may be exposed to or infected by COVID-19 by providing services under this Agreement and that such exposure or infection may result in personal injury, illness, permanent disability, and death.

PROVIDER further acknowledges that PROVIDER is assuming all of the foregoing risks and accept sole responsibility for any injury to itself and staff, including, but not limited to, personal injury, disability, death, illness, damage, loss, claim, liability, or expense or any kind, that PROVIDER or its staff may experience or incur in connection with providing services. PROVIDER hereby releases, covenants not to sue, discharges, and holds harmless and indemnifies the COUNTY, its employees, agents, and representatives, of and from any and all claims, including all liabilities, claims, actions, damages, costs or expenses of any kind arising out of or relating thereto. Provider understands and agrees that this release includes any claims based on the actions, omissions, or negligence of COUNTY, its employees, agents and representatives, whether a COVID-19 infection occurs before, during, or after the provision of services under this Agreement.

III. ASSIGNMENT/TRANSFER:

PROVIDER shall not assign, subcontract or transfer any interest or obligation in this Agreement, without the prior written consent of COUNTY, including the hiring of independent contract service providers unless otherwise provided herein. Claims for money due or to become due PROVIDER from COUNTY under this Agreement may be assigned to a bank, trust company or other financial institution without such approval if and only if the instrument of assignment contains a provision substantially to the effect that it is agreed that the right of the assignee in and to any moneys due or to become due to PROVIDER shall be subject to prior claims of all persons, firms and corporations for services rendered or materials supplied for the performance of the work called for in this Agreement. PROVIDER shall promptly provide notice of any such assignment or transfer to COUNTY.

IV. TERMINATION:

A. Failure of PROVIDER to fulfill any of its obligations under this Agreement in a timely manner, or violation by PROVIDER of any of the covenants or stipulations of this Agreement, shall constitute grounds for COUNTY to terminate this Agreement by giving a thirty (30) day written notice to PROVIDER.

B. The following shall constitute grounds for immediate termination:

1. violation by PROVIDER of any State, Federal or local law, or failure by PROVIDER to comply with any applicable States and Federal service standards, as expressed by applicable statutes, rules and regulations.

2. failure by PROVIDER to carry applicable licenses or certifications as required by law.

3. failure of PROVIDER to comply with reporting requirements contained herein.

4. inability of PROVIDER to perform the work provided for herein.

C. Failure of the Dane County Board of Supervisors or the State or Federal Governments to appropriate sufficient funds to carry out COUNTY's obligations hereunder, shall result in

automatic termination of this Agreement as of the date funds are no longer available, without notice.

D. In the event COUNTY terminates this Agreement as provided herein, all finished and unfinished documents, services, papers, data, products, and the like prepared, produced or made by PROVIDER under this Agreement shall at the option of COUNTY become the property of COUNTY, and PROVIDER shall be entitled to receive just and equitable compensation, subject to any penalty, for any satisfactory work completed on such documents, services, papers, data, products or the like. Notwithstanding the above, PROVIDER shall not be relieved of liability to COUNTY for damages sustained by COUNTY by virtue of any breach of this Agreement by PROVIDER, and COUNTY may withhold any payments to PROVIDER for the purpose of offset.

V. PAYMENT:

COUNTY agrees to make such payments for services rendered under this Agreement as and in the manner specified herein and in the attached Schedule B, which is fully incorporated herein by reference. Notwithstanding any language to the contrary in this Agreement or its attachments, COUNTY shall never be required to pay more than the sum set forth on page 1 of this Agreement under the heading MAXIMUM COST, for all services rendered by PROVIDER under this Agreement.

VI. REPORTS:

PROVIDER agrees to make such reports as are required in the attached schedules, which is fully incorporated herein by reference. With respect to such reports it is expressly understood that time is of the essence and that the failure of PROVIDER to comply with the time limits set forth in said schedules shall result in the penalties set forth herein.

VII. DELIVERY OF NOTICE:

Notices, bills, invoices and reports required by this Agreement shall be deemed delivered as of the date of postmark if deposited in a United States mailbox, first class postage attached, addressed to a party's address as set forth above. It shall be the duty of a party changing its address to notify the other party in writing within a reasonable time.

VIII. INSURANCE & INDEMNIFICATION:

A. PROVIDER shall indemnify, hold harmless and defend COUNTY, its boards, commissions, agencies, officers, employees and representatives against any and all liability, loss (including, but not limited to, property damage, bodily injury and loss of life), damages, costs or expenses which COUNTY, its officers, employees, agencies, boards, commissions and representatives may sustain, incur or be required to pay by reason of PROVIDER's furnishing the services or goods required to be provided under this Agreement, provided, however, that the provisions of this paragraph shall not apply to liabilities, losses, charges, costs, or expenses caused by or resulting from the acts or omissions of COUNTY, its agencies, boards, commissions, officers, employees or representatives. Any failure on the part of the PROVIDER to comply with reporting or other provisions of its insurance policies shall not affect this PROVIDER's obligations under this paragraph. COUNTY reserves the right, but not the obligation, to participate in defense without relieving PROVIDER of any obligation under this paragraph. The obligations of PROVIDER under this paragraph shall survive the expiration or termination of this Agreement.

B. In order to protect itself and COUNTY, its officers, boards, commissions, agencies, agents, volunteers, employees and representatives under the indemnity provisions of the subparagraph above, PROVIDER shall, at PROVIDER's own expense, obtain and at all times during the term of this Agreement keep in full force and effect the insurance coverages, limits, and endorsements listed below. When obtaining required insurance under this Agreement and otherwise, PROVIDER agrees to preserve COUNTY's subrogation rights in all such matters that may arise that are covered by PROVIDER's insurance. Neither these requirements nor the COUNTY's review or acceptance of PROVIDER's certificates of insurance is intended to limit or qualify the liabilities or

obligations assumed by the PROVIDER under this Agreement. The County expressly reserves the right to require higher or lower insurance limits where County deems necessary.

1. Commercial General Liability.
PROVIDER agrees to maintain Commercial General Liability insurance at a limit of not less than $1,000,000 per occurrence. Coverage shall include, but not be limited to, Bodily Injury and Property Damage to Third Parties, Contractual Liability, Personal Injury and Advertising Injury Liability, Premises-Operations, Independent PROVIDERs and Subcontractors, and Fire Legal Liability. The policy shall not exclude Explosion, Collapse, and Underground Property Damage Liability Coverage. The policy shall cover bodily injury and property damage liability, owned and non-owned equipment, blanket contractual liability, completed operations.

2. Professional Liability Insurance.
If PROVIDER renders professional services (such as medical, architectural or engineering services) under this Agreement, then PROVIDER shall provide and maintain two million dollars ($2,000,000.00) of professional liability insurance. If such policy is a "claims made" policy, all renewals during the life of the Agreement shall include "prior acts coverage" covering at all times all claims made with respect to PROVIDER's work performed under the Agreement. This Professional Liability coverage must be kept in force for a period of six (6) years after the services have been accepted by COUNTY

3. Commercial/Business Automobile Liability Insurance.
If applicable to the services covered by this Agreement, PROVIDER shall provide and maintain commercial general liability and automobile liability insurance at a limit of not less than $1,000,000 per occurrence. Coverage for commercial general liability and automobile liability insurance shall, at a minimum, be at least as broad as Insurance Services Office ("ISO") Commercial General Liability Coverage (Occurrence Form CG 0001) and ISO Business Auto Coverage (Form CA 0001), covering Symbol 1 (any vehicle).

4. Environmental Impairment (Pollution) Liability
If PROVIDER will be transporting waste or will be disposing of waste or products under this Agreement, then PROVIDER agrees to maintain Environmental Impairment (Pollution) Liability insurance at a limit of not less than $1,000,000 per occurrence for bodily injury, property damage, and environmental cleanup costs caused by pollution conditions, both sudden and non-sudden. This requirement can be satisfied by either a separate environmental liability policy or through a modification to the Commercial General Liability policy. Evidence of either must be provided.

5. Workers' Compensation.
PROVIDER agrees to maintain Workers Compensation insurance at Wisconsin statutory limits.

6. Umbrella or Excess Liability.
PROVIDER may satisfy the minimum liability limits required above for Commercial General Liability and Business Auto Liability under an Umbrella or Excess Liability policy. There is no minimum Per Occurrence limit of liability under the Umbrella or Excess Liability; however, the Annual Aggregate limit shall not be less than the highest "Each Occurrence" limit for the Commercial General Liability and Business Auto Liability. PROVIDER agrees to list DANE COUNTY as an "Additional Insured" on its Umbrella or Excess Liability policy.

C. Required provisions.

1. Insurer's Requirement
All of the insurance shall be provided on policy forms and through companies satisfactory to COUNTY, and shall have a minimum AM Best's rating of A- VIII

2. Additional Insured.

COUNTY, its elected and appointed officials, officers, employees or authorized representatives or volunteers are to be given additional insured status (via ISO endorsement CG 2010, CG 2033, or insurer's equivalent for general liability coverage) as respects: liability arising out of activities performed by or on behalf of PROVIDER; products and completed operations of PROVIDER; premises occupied or used by PROVIDER; and vehicles owned, leased, hired or borrowed by PROVIDER. The coverage shall contain no special limitations on the scope of protection afforded to COUNTY, its elected and appointed officials, officers, employees or authorized representatives or volunteers. Except for the workers compensation policy, each insurance policy shall contain a waiver of subrogation endorsement in favor of COUNTY.

3. Provider's Insurance Shall be Primary

For any claims related to this Agreement, PROVIDER's insurance shall be primary insurance with respect to COUNTY, its elected and appointed officials, officers, employees or authorized representatives or volunteers. Any insurance, self-insurance, or other coverage maintained by COUNTY, its elected and appointed officers, officials, employees or authorized representatives or volunteers shall not contribute to the primary insurance. PROVIDER's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability

4. Cancelation Notice

Each insurance policy required by this Agreement shall state, or be endorsed so as to the state, that coverage shall not be canceled by the insurance carrier or the PROVIDER, except after sixty (60) days (ten (10) days for non-payment of premium) prior written notice by U.S. mail has been given to COUNTY.

5. Evidences of Insurance.

Prior to execution of the Agreement, PROVIDER shall file with COUNTY a certificate of insurance (Accord Form 25-S or equivalent) signed by the insurer's representative evidencing the coverage required by this Agreement. Such evidence shall include an additional insured endorsement signed by the insurer's representative. Such evidence shall also include confirmation that coverage includes or has been modified to include all required provisions as detailed herein.

6. Sub-Contractors.

In the event that PROVIDER employs sub-contractors as part of this Agreement, it shall be the PROVIDER's responsibility to require and confirm that each sub-contractor meets the minimum insurance requirements specified above.

D. The parties do hereby expressly agree that COUNTY, acting at its sole option and through its Risk Manager, may waive any and all requirements contained in this Agreement, such waiver to be in writing only. Such waiver may include or be limited to a reduction in the amount of coverage required above. The extent of waiver shall be determined solely by COUNTY's Risk Manager taking into account the nature of the work and other factors relevant to COUNTY's exposure, if any, under this Agreement.

IX. NO WAIVER BY PAYMENT OR ACCEPTANCE:

In no event shall the making of any payment or acceptance of any service or product required by this Agreement constitute or be construed as a waiver by COUNTY of any breach of the covenants of this Agreement or a waiver of any default of PROVIDER and the making of any such payment or acceptance of any such service or product by COUNTY while any such default or breach shall exist shall in no way impair or prejudice the right of COUNTY with respect to recovery of damages or other remedy as a result of such breach or default.

X. NON-DISCRIMINATION:

During the term of this Agreement, PROVIDER agrees not to discriminate on the basis of age, race, ethnicity, religion, color, gender, disability, marital status, sexual orientation, national origin, cultural differences, ancestry, physical appearance, arrest record or conviction record, military participation or membership in the national guard, state defense force or any other reserve component of the military forces of the United States, or political beliefs against any person, whether a recipient of services (actual or potential) or an employee or applicant for employment.

Such equal opportunity shall include but not be limited to the following: employment, upgrading, demotion, transfer, recruitment, advertising, layoff, termination, training, rates of pay, and any other form of compensation or level of service(s). PROVIDER agrees to post in conspicuous places, available to all employees, service recipients and applicants for employment and services, notices setting forth the provisions of this paragraph. The listing of prohibited bases for discrimination shall not be construed to amend in any fashion state or federal law setting forth additional bases, and exceptions shall be permitted only to the extent allowable in state or federal law.

XI. CIVIL RIGHTS COMPLIANCE:

A. If PROVIDER has 20 or more employees and receives $20,000 in annual contracts with COUNTY, the PROVIDER shall submit to COUNTY a current Civil Rights Compliance Plan (CRC) for Meeting Equal Opportunity Requirements under Title VI of the Civil Rights Act of 1964, Section 504 of the Rehabilitation Act of 1973, Title VI and XVI of the Public Service Health Act, the Age Discrimination Act of 1975, the Omnibus Budget Reconciliation Act of 1981 and Americans with Disabilities Act (ADA) of 1990. PROVIDER shall also file an Affirmative Action (AA) Plan with COUNTY in accordance with the requirements of chapter 19 of the Dane County Code of Ordinances. PROVIDER shall submit a copy of its discrimination complaint form with its CRC/AA Plan. The CRC/AA Plan must be submitted prior to the effective date of this Agreement and failure to do so by said date shall constitute grounds for immediate termination of this Agreement by COUNTY. If an approved plan has been received during the previous CALENDAR year, a plan update is acceptable. The plan may cover a two-year period. Providers who have less than twenty employees, but who receive more than $20,000 from the COUNTY in annual contracts, may be required to submit a CRC Action Plan to correct any problems discovered as the result of a complaint investigation or other Civil Rights Compliance monitoring efforts set forth herein below. If PROVIDER submits a CRC/AA Plan to a Department of Workforce Development Division or to a Department of Health and Family Services Division that covers the services purchased by COUNTY, a verification of acceptance by the State of PROVIDER's Plan is sufficient.

B. PROVIDER agrees to comply with the COUNTY's civil rights compliance policies and procedures. PROVIDER agrees to comply with civil rights monitoring reviews performed by the COUNTY, including the examination of records and relevant files maintained by the PROVIDER. PROVIDER agrees to furnish all information and reports required by the COUNTY as they relate to affirmative action and non-discrimination. PROVIDER further agrees to cooperate with COUNTY in developing, implementing, and monitoring corrective action plans that result from any reviews.

C. PROVIDER shall post the Equal Opportunity Policy, the name of PROVIDER's designated Equal Opportunity Coordinator and the discrimination complaint process in conspicuous places available to applicants and clients of services, applicants for employment and employees. The complaint process will be according to COUNTY's policies and procedures and made available in languages and formats understandable to applicants, clients and employees. PROVIDER shall supply to COUNTY's Contract Compliance Officer upon request a summary document of all client complaints related to perceived discrimination in service delivery. These documents shall include names of the involved persons, nature of the complaints, and a description of any attempts made to achieve complaint resolution.

D. PROVIDER shall provide copies of all announcements of new employment opportunities to COUNTY's Contract Compliance Officer when such announcements are issued.

E. If PROVIDER is a government entity having its own compliance plan, PROVIDER'S plan shall govern PROVIDER's activities.

XII. COMPLIANCE WITH FAIR LABOR STANDARDS:

A. Reporting of Adverse Findings

During the term of this Agreement, PROVIDER shall report to the County Contract Compliance Officer, within ten (10) days, any allegations to, or findings by the National

Labor Relations Board (NLRB) or Wisconsin Employment Relations commission (WERC) that PROVIDER has violated a statute or regulation regarding labor standards or relations,. If an investigation by the Contract Compliance Officer results in a final determination that the matter adversely affects PROVIDER'S responsibilities under this Agreement, and which recommends termination, suspension or cancellation of this agreement, the County may take such action.

B. Appeal Process
PROVIDER may appeal any adverse finding by the Contract Compliance Officer as set forth in Dane County Ordinances Sec. 25.08(20)(c) through (e).

C. Notice Requirement
PROVIDER shall post the following statement in a prominent place visible to employees: "As a condition of receiving and maintaining a contract with Dane County, this employer shall comply with federal, state and all other applicable laws prohibiting retaliation for union organizing."

XIII. CONTROLLING LAW AND VENUE:
It is expressly understood and agreed to by the parties hereto that in the event of any disagreement or controversy between the parties, Wisconsin law shall be controlling. Venue for any legal proceedings shall be in the Dane County Circuit Court.

XIV. FINANCIAL INTEREST PROHIBITED:
Under s. 946.13, Wis. Stats. COUNTY employees and officials are prohibited from holding a private pecuniary interest, direct or indirect, in any public contract. By executing this Agreement, each party represents that it has no knowledge of a COUNTY employee or official involved in the making or performance of the Agreement that has a private pecuniary interest therein. It is expressly understood and agreed that any subsequent finding of a violation of s. 946.13, Wis. Stat. may result in this Agreement being voided at the discretion of the COUNTY.

XV. LIMITATION OF AGREEMENT:
This Agreement is intended to be an agreement solely between the parties hereto and for their benefit only. No part of this Agreement shall be construed to add to, supplement, amend, abridge or repeal existing duties, rights, benefits or privileges of any third party or parties, including but not limited to employees of either of the parties.

XVI. ENTIRE AGREEMENT:
The entire agreement of the parties is contained herein and this Agreement supersedes any and all oral agreements and negotiations between the parties relating to the subject matter hereof. The parties expressly agree that this Agreement shall not be amended in any fashion except in writing, executed by both parties.

XVII. COUNTERPARTS:
The parties may evidence their agreement to the foregoing upon one or several counterparts of this instrument, which together shall constitute a single instrument.

XVIII. CONSTRUCTION:
This Agreement shall not be construed against the drafter.

XIX. COPIES VALID:
This Agreement, and any amendment or addendum relating to it, may be executed and transmitted to any other party by legible facsimile reproduction or by scanned legible electronic PDF copy, and utilized in all respects as, an original, wet-inked manually executed document. Further, this Agreement and any amendment or addendum thereto, may be stored and reproduced by each party electronically, photographically, by photocopy or other similar process, and each party may at its option destroy any original document so reproduced. All parties hereto stipulate that any such legible reproduction shall be admissible in evidence as the original itself in any judicial, arbitration or administrative proceeding whether or not the original is in existence and

whether or not such reproduction was made by each party in the regular course of business. This term does not apply to the service of notices under this Agreement.

XX. REGISTERED AGENT:

PROVIDER warrants that it has complied with all necessary requirements to do business in the State of Wisconsin, that the persons executing this Agreement on its behalf are authorized to do so, and, if a corporation, that the name and address of PROVIDER's registered agent is as set forth opposite the heading REGISTERED AGENT on page 1 of this Agreement. PROVIDER shall notify COUNTY immediately, in writing, of any change in its registered agent, his or her address, and PROVIDER's legal status. For a partnership, the term 'registered agent' shall mean a general partner.

XXI. DEBARMENT:

By signing this Contract, PROVIDER attests that it is not debarred from participating in federal procurements. COUNTY reserves the right to cancel this Contract if PROVIDER is presently, or is in the future, on the list of parties excluded from federal procurements.

XXII. EXECUTION:

A. The parties agree that execution of this document may be made by electronic signatures. The parties may make electronic signatures by typing the name of the authorized signature followed by the words, “electronically signed” or by any other electronic means representing an authorized signature by PROVIDER. PROVIDER shall ensure that only authorized persons may affix electronic signatures to this Agreement and COUNTY may rely that the electronic signature provided by PROVIDER is authentic.

B. This Agreement has no effect until signed by both parties. The submission of this Agreement to PROVIDER for examination does not constitute an offer. PROVIDER warrants that the persons executing this Agreement on its behalf are authorized to do so.

IN WITNESS WHEREOF, COUNTY and PROVIDER, by their respective authorized agents, have caused this Agreement and its Schedules to be executed, effective as of the date by which all parties hereto have affixed their respective signatures, as indicated below.

FOR PROVIDER:

_____ _____
NAME Date
TITLE

*** * ***

FOR COUNTY:

_____ _____
Joseph T. Parisi Date
Dane County Executive

_____ _____
Scott McDonell Date
Dane County Clerk

* [print name and title, below signature line of any person signing this document]

SCHEDULE A
Scope of Services

A. Contractor shall furnish all labor, materials, equipment and services necessary to perform environmental monitoring at Dane County Landfill Site No. 1 (Verona), Site No. 2 (Rodefeld) and the Truax Landfill as called for in Request for Proposal 322039.

   a. Environmental monitoring shall include, but is not limited to, the items listed in the environmental monitoring tables included in Schedule D.

      i. Dane County Landfill Site No. 1 (Verona) – All monitoring points

      ii. Dane County Landfill Site No. 2 (Rodefeld) – All monitoring points

      iii. Truax Landfill – Groundwater monitoring only

B. General assistance, out of scope work, and supplemental monitoring may be requested by County. Some monitoring under this scope of work may take place on points that are not included in the environmental monitoring tables. Upon request, Contractor shall provide scope of work and cost proposal prior for these items. Work shall not commence without written authorization to proceed from County. General assistance budget and call out fees for work not performed during a routine monitoring event are provided in Schedule B.

C. If for any reason the Contractor is unable to sample/monitor a particular point during a given period, the Contractor must provide Dane County with a summary of points not monitored and the reason why within 2 days of the event.

D. It shall be the Contractor's responsibility to ensure that the methods and procedures used while conducting environmental monitoring at the landfill sites are acceptable to the applicable permit governing entity.

E. Contractor shall prepare and submit any data required to be uploaded to the Wisconsin Department of Natural Resources (WDNR) Groundwater and Environmental Monitoring System (GEMS) database. Some data may be provided by Dane County and shall be still the Contractor's responsibility to upload with all other required data into the GEMS database.

F. Contractor shall provide a comprehensive database of all collected data under this contract. Database shall have the capability to trend and analyze specific data points.

G. Contractor shall plan and coordinate, at minimum, monthly meetings with Dane County to discuss completed and upcoming monitoring and sampling work.

   a. During monthly meetings, Contractor shall provide a maintenance log of monitoring points needing maintenance or repair.

   b. Summarize recently completed monitoring and sampling work.

   c. Discuss any upcoming work and coordinate with affected parties if necessary. (i.e. RNG Plant staff, MMSD, Landfill Staff)

H. Contractor shall complete an annual audit of all data and reports and ensure compliance with all applicable permits.

I. Contractor shall complete sampling required by Dane County's waste water discharge permit held with Madison Metropolitan Sewerage District (MMSD). Sampling parameters and frequency listed in the discharge permit shall be followed. Contractor shall also ensure that water sample collection and preservation procedures listed in the MMSD permit are followed.

J. All routine project management, meetings and other correspondence directly related to the routine monitoring work specified under this contract shall be part of the overall unit pricing.

K. Monitoring Procedures:

a. General

i. Contractor shall maintain the Dane County Landfill Site No. 2 (Rodefeld) Sampling Plan.

ii. It shall be the Contractor's responsibility to ensure that the methods and procedures used while conducting environmental monitoring at the landfill sites are acceptable to the WDNR and in accordance with site specific permits and plans.

iii. The methods used for the sample collection, preservation and analysis shall be accomplished in accordance with standard methods for the examination of water and wastewater or other methods approved in writing by the WDNR (NR 140, NR 149, PUBL-DG-036-96 and PUBL-DG-037-96).

iv. Samples should be analyzed as soon as possible after collection. The maximum holding times for which a sample may be held before analysis must correspond to those given in Table F, NR 219.

v. If for any reason the Contractor is unable to sample a particular monitoring point during a given period, Contractor must provide Dane County with a summary of monitoring points not monitored and the reason why within 2 days of monitoring.

b. Quality Control/ Quality Assurance

i. The Contractor shall have quality control and quality assurance procedures in the field and in the laboratory to prevent contamination and ensure accurate results. The Contractor shall, at a minimum, meet all quality control and quality assurance requirements in NR 149.14 and NR 149.24, industry standards, and all applicable plans and permits.

ii. The quality control program shall be documented and provided to Dane County prior to commencement of the sampling under this contract.

iii. Field quality control procedures shall include, at a minimum, the following:

1. Field duplicates shall be collected for every 10 samples collected.

2. A minimum of one field blank shall be collected at each Landfill site.

3. For trips involving organics sampling, a trip blank shall be collected for each cooler.

4. Analysis results for the above samples shall be made part of the monitoring report. Dane County will not be charged for any blank results.

5. In cases where the field blank or trip blank show contamination at a significant level (i.e. above the PAL), resampling and analysis of affected wells, if deemed necessary by Dane County, must be done at the Contractor's expense.

c. Water Level Measurement

i. Water elevations (MSL) shall be determined prior to sample collection.

ii. Dane County will provide a reference elevation (MSL) at each monitoring point to aid in determining the water elevation.

d. Water Sample Collection and Preservation

i. Water samples shall be collected by personnel who have been specially trained in water sample collection methods.

ii. Only new sampling containers shall be used.

iii. Monitoring wells shall be purged immediately prior to collecting samples by removing at least four (4) volumes of standing water in each well. Contractor shall determine the volume of standing water in each well by measuring the distance from the top of the water table to the bottom of the well. Well purging shall be done in accordance with sampling procedures and guidelines contained in DNR publications PUBL-DG-037-96 and PUBL-DG-038-96.

iv. Appropriate precautions shall be taken to prevent well contamination and to ensure that uncontaminated, representative water samples are taken.

v. Water samples from monitoring wells and surface water locations shall be field filtered through a 0.45-micron filter, except for the portion on which field pH, field conductivity and VOCs will be determined. Private well samples, leachate samples and collection lysimeter samples shall not be field filtered.

vi. Water samples shall be preserved immediately after collection in accordance with standard methods and stored at temperatures at or below 4° C.

e. Water Quality Analysis

i. The field pH of each sample shall be determined at the time of collection with an accurate portable pH meter.

ii. The field conductivity (at 25° C) of each sample shall be determined at the time of collection with an accurate portable conductivity meter.

iii. All other water quality parameters shall be determined in a laboratory using standard analytical methods and equipment as approved by WDNR.

iv. All analyses shall have a LOD and LOQ below the PAL, or else produce the lowest available LOD and LOQ above the PAL.

f. Gas Monitoring

i. All gas monitoring points shall be monitored using standard methods approved by WDNR and in accordance with site specific permits or plans.

ii. Gas monitoring shall be performed using meters capable of detecting methane, oxygen, and carbon dioxide concentrations of 0.1% or less.

L. Monitoring Report:

a. Contractor shall prepare a monitoring report for each landfill site and submit to Dane County each quarterly monitoring period. This scope is separate from the GEMS submittal.

b. The reports for Dane County Sites No. 1 and 2 shall contain the following information:

i. Name and qualifications of the persons conducting the monitoring.

ii. Time and date of monitoring.

iii. A description of the methods, procedures, and equipment used, including: (Note: a description of Standard Operating Procedures and standard equipment for both the field and laboratory needs to be submitted only once. The quarterly reports only need to discuss variations.)

1. Calculations of the amount of standing water in each well and the number of gallons that were removed before sampling;

2. Procedures used to flush wells prior to collecting samples and the approximate time elapsed between flushing and sampling;

3. Procedures for cleaning samplers (e.g. bailers) between wells and the order of well sampling;

4. Equipment used to measure conductivity and pH in the field;

5. Volume of samples collected; procedures used to filter the sample (if applicable) prior to analysis; and procedures for chemical preservation of samples;

6. Methods for transporting samples to the lab; the time spent transporting the samples to the lab; and the time passed before the samples are analyzed in the lab.

7. Groundwater and gas sampling field data sheets.

iv. Analytical procedures used in the lab for each required parameter, including make and model of any automated analytical equipment used. If procedures are exactly as described in published sources, reference may be listed to fulfill this requirement.

v. Water level elevations in MSL (include the measured distance from the top of the well casing to the water level and the measured distance from the top of the well casing to the bottom of the well).

vi. Analytical results for each sample.

vii. Historical summaries for all inorganic parameters at each sampling location that shows the last 8 rounds of data and identification of any notable trends.

viii. Historical summaries of detected VOCs at each sampling location that shows the last 8 rounds of data and identification of any trends.

ix. All required WDNR submittal materials including the Groundwater Monitoring Data Certification sheets, data diskettes, and an exceedance summary table addressing the cause and significance of noted exceedances.

x. All trip blank or method blank detects (VOCs only).

xi. Gas monitoring results.

xii. Any problems encountered during the monitoring, including a list of any monitoring points not monitored and the reason why.

xiii. Any quality control problems encountered and a summary of any corrective actions taken.

c. The report for the Truax Landfill shall consist of:

i. Monitoring data in DNR electronic format.

ii. Field notes.

iii. Laboratory analytical report.

M. Whenever possible, meetings shall be held via teleconference or videoconference, to be hosted by the consultant. Dane County reserves right to mandate safe physical distancing & use of face masks by all personnel while inside any County facility or on any County grounds.

SCHEDULE B
Pricing Structure and Payment

Invoices/Payment:
PROVIDER shall issue an invoice upon completion of services and/or delivery of such deliverables. Invoices must reference the Dane County purchase order number issued for the services/deliverables described herein. Email delivery of invoices is encouraged and preferred – see the Bill To section of the purchase order. Payment shall be made within 30 days of COUNTY's receipt of accepted invoice unless otherwise noted in Schedule B.

VERONA SITE NO. 1

ITEM	UNIT PRICE	QTY./YEAR	ANNUAL PRICE
1. Water Level Measurement	$		
2. Water Sample Collection and Preservation	$		
3. Water Quality Analysis			
a. color	$		
b. odor	$		
c. turbidity	$		
d. field pH	$		
e. field temperature	$		
f. COD	$		
g. hardness	$		
h. alkalinity	$		
i. field conductivity	$		
j. chloride	$		
k. cadmium	$		
l. chromium, total	$		
m. lead	$		
n. mercury	$		
o. selenium	$		
p. total ammonia nitrogen	$		
q. total Kjeldahl nitrogen	$		
r. sulfate	$		
s. zinc	$		
t. sodium	$		
u. manganese	$		
v. phosphorus	$		
w. BOD_5	$		
x. total suspended solids	$		
y. nickel	$		
z. total iron	$		
aa. VOC's (8260)	$		
bb. VOC's (8270)	$		
4. Gas Monitoring Probes	$		
5. Gas Extraction Wells	$		
6. Leachate Head Elevation	$		
7. Basement Monitoring	$		
8. Monitoring Report	$		

RODEFELD SITE NO. 2

ITEM	UNIT PRICE	QTY./YEAR	ANNUAL PRICE
1. Water Level Measurement	$		
2. Water Sample Collection and Preservation	$		
3. Water Quality Analysis			
a. color	$		
b. odor	$		
c. turbidity	$		
d. field pH	$		
e. COD	$		
f. hardness	$		
g. alkalinity	$		
h. field conductivity	$		
i. field temperature	$		
j. chloride	$		
k. arsenic	$		
l. barium	$		
m. cadmium	$		
n. chromium	$		
o. fluoride	$		
p. lead	$		
q. mercury	$		
r. selenium	$		
s. silver	$		
t. copper	$		
u. NO2 + NO3 (as N)	$		
v. total ammonia nitrogen	$		
w. sulfate	$		
x. zinc	$		
y. sodium	$		
z. manganese	$		
aa. phosphorus	$		
bb. BOD5	$		
cc. total suspended solids	$		
dd. nickel	$		
ee. total iron	$		
ff. beryllium, total	$		
gg. thallium, total	$		
hh. antimony, total	$		
ii. cobalt, total	$		
kk. vanadium, total	$		
ll. VOC's (8260)	$		
4. Gas Monitoring Probes	$		
5. Gas Extraction Wells	$		
6. Gas Sample EPA TO-14	$		
7. Leachate Head Elevation	$		
8. Monitoring Report	$		

TRUAX LANDFILL

ITEM	UNIT PRICE	QTY./YEAR	ANNUAL PRICE
1. Water Level Measurement	$		
2. Water Sample Collection and Preservation	$		
3. Water Quality Analysis			
a. color	$		
b. odor	$		
c. turbidity	$		
d. field pH	$		
e. hardness	$		
f. alkalinity	$		
g. field conductivity	$		
h. field temperature	$		
i. arsenic	$		
j. barium	$		
k. cadmium	$		
l. lead	$		
m. NO2 + NO3 (as N)	$		
n. sulfate	$		
o. manganese	$		
p. total iron	$		
q. VOC's (8260)	$		

ADDITIONAL LINE ITEMS

ITEM	UNIT PRICE	QTY./YEAR	ANNUAL PRICE
Quarterly GEMS Database Submittal	$		
Call-Out Fee	$		
Dane County Monitoring/Sampling Database	-	-	$
MMSD Semi-Annual Sampling	$		
Annual General Assistance Budget			

All prices, costs, and conditions outlined in the proposal shall remain fixed to the first 3 years of the contract. Thereafter, prices can be increased by no more than the increase in the Midwest Consumer Price Index. Any such increases will be considered only if Dane County receives the request in writing no less than 60 days prior to the anniversary of the contract.

[Schedule C: Attach Unit Price Schedule]

[Schedule D: Attach Environmental Monitoring Tables]

SECTION 00 73 11

FAIR LABOR PRACTICES CERTIFICATION

The undersigned, for and on behalf of the BIDDER, APPLICANT or PROPOSER named herein, certifies as follows:

A. That he or she is an officer or duly authorized agent of the above-referenced BIDDER, APPLICANT or PROPOSER, which has a submitted a bid, application or proposal for a contract or agreement with the county of Dane.

B. That BIDDER, APPLICANT or PROPOSER has (check one):

_____ not been found by the National Labor Relations Board ("NLRB") or the Wisconsin Employment Relations Commission ("WERC") to have violated any statute or regulation regarding labor standards or relations in the seven years prior to the signature date of this Certification.

_____ been found by the National Labor Relations Board ("NLRB") or the Wisconsin Employment Relations Commission ("WERC") to have violated any statute or regulation regarding labor standards or relations in the seven years prior to the signature date of this Certification.

_____ _____

Officer or Authorized Agent Signature Date

_____

Printed or Typed Name and Title

_____

Printed or Typed Business Name

NOTE: You can find information regarding the violations described above at: www.nlrb.gov and werc.wi.gov.

For reference, Dane County Ordinance 25.09 is as follows:

(1) BIDDER RESPONSIBILITY. (a) Any bid, application or proposal for any contract with the county, including public works contracts regulated under chapter 40, shall include a certification indicating whether the bidder has been found by the National Labor Relations Board (NLRB) or the Wisconsin Employment Relations Committee (WERC) to have violated any statute or regulation regarding labor standards or relations within the last seven years. The Controller shall investigate any such finding and make a recommendation to the committee, which shall determine whether the conduct resulting in the finding affects the bidder's responsibility to perform the contract.

If you indicated that the NLRB or WERC have found you to have such a violation, you must include copies of any relevant information regarding such violation with your proposal, bid or application.

Include this completed Certification with your bid, application or proposal.

END OF SECTION