

RESOLUTION 15D-22

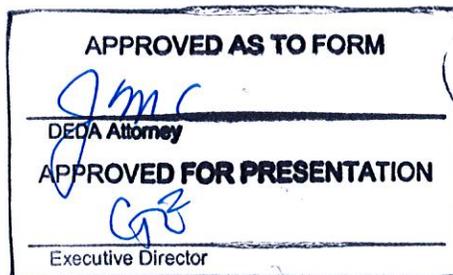
**RESOLUTION AUTHORIZING AN AGREEMENT WITH
IKONICS CORPORATION FOR REIMBURSEMENT OF
PROFESSIONAL SERVICES OF BARR ENGINEERING CO.**

RESOLVED, by the Duluth Economic Development Authority ("DEDA") that the proper DEDA officials are hereby authorized to enter into an Agreement, substantially in the form of that attached hereto (Contract No. _____), with Ikonics Corporation ("Ikonics") for the reimbursement to DEDA of the professional services of Barr Engineering Co. in an amount up to \$16,791.50 payable into fund 860, related to the Ikonics expansion project.

Approved by the Duluth Economic Development Authority this 27th day of May, 2015.

ATTEST:

Executive Director



STATEMENT OF PURPOSE: This resolution authorizes an agreement in which DEDA agrees to contract for professional services with Barr Engineering and to accept reimbursement for those services from Ikonics for costs associated with environmental oversight provided during this year's Ikonics expansion project.

Pursuant to the April 7, 2008, Development Agreement, DEDA is responsible for all environmental remediation of Ikonics' property, including the original project as well as all future expansions at Atlas. Remediation has been completed on the Ikonics site and the property is enrolled in the MPCA's Voluntary Investigation and Cleanup (VIC) program. The VIC staff have approved Ikonics' Voluntary Response Action Plan (VRAP), which includes a "Contingency Plan" section. This lays out the protocol required whenever there is further construction on the property. As DEDA is the financially responsible party for any (unlikely) contamination found during this year's expansion project, it is desirable for Barr's construction oversight to be under a contract with DEDA. Barr's services will not exceed the amount of \$16,791.50. Ikonics will reimburse DEDA for those costs.

AGREEMENT

THIS AGREEMENT entered into this _____ day of _____, 2015, by and between the DULUTH ECONOMIC DEVELOPMENT AUTHORITY, an economic development authority created and existing under Minnesota Statutes (1989) Chapter 469, hereinafter referred to as "DEDA", and IKONICS CORPORATION, a Minnesota corporation, hereinafter referred to as "Developer".

WHEREAS, in 2008, Developer and DEDA entered into a Development Agreement pursuant to which Developer acquired certain property from DEDA at the former Atlas Cement Plant site ("Atlas") for the purpose of redeveloping the site for Developer's manufacturing and warehouse facility; and

WHEREAS, "Atlas" is enrolled in the Minnesota Pollution Control Agency Voluntary Investigation and Cleanup ("VIC") program and, under the terms of the DEDA/IKONICS Development Agreement, DEDA continues to be responsible for residual environmental cleanup on the site; and

WHEREAS, BARR Engineering Co. ("BARR") is the professional consultant providing environmental services to DEDA related to Atlas; and

WHEREAS, Developer desires to construct an expansion to its existing facility which expansion shall require geotechnical borings and construction oversight of an environmental consultant so that if contamination is encountered during construction, appropriate measures are taken; and

WHEREAS, since DEDA remains a responsible party, DEDA desires to enter into an Agreement with BARR to provide said services and have Developer pay for or reimburse the costs therefor.

NOW THEREFORE, in consideration of the mutual covenants and conditions hereinafter set forth, the parties hereto hereby agree as follows:

1. Professional Services Agreement

DEDA agrees to enter into a Professional Services Agreement with BARR to provide geotechnical oversight and construction oversight with respect to Developer's expansion at Atlas the ("BARR Agreement"); said contract to be in an amount not to exceed Sixteen Thousand Seven Hundred Ninety-one and 50/100ths (\$16,791.50), payable from Fund 860.

2. Developer Reimbursement

Developer agrees to reimburse DEDA for all costs incurred under the BARR Agreement in an amount not to exceed Sixteen Thousand Seven Hundred Ninety-one and 50/100ths (\$16,791.50), payable into Fund 860_. Developer shall pay DEDA upon receipt of invoice by Developer, said payment to be made at the address set forth in Paragraph 8 below.

3. Term

The Term of this Agreement shall be deemed to commence on January 1, 2015, the date of this Agreement notwithstanding, and will terminate upon completion of services by BARR, unless terminated earlier as set forth herein.

4. Access

Developer agrees that it shall provide BARR full access to Developer's construction site to allow Barr to perform its services under the BARR Agreement. Additionally, Developer shall, and shall require its contractors to, cooperate with BARR so as to ensure that the construction is performed in accordance with contingency plans as approved in the Voluntary Response Action Plan ("VRAP"). DEDA in turn agrees to inform Barr that it may freely discuss information obtained at the site with Ikonics' employees and consultants. DEDA shall also promptly furnish all information obtained by Barr in its work at the construction site to Ikonics (unless otherwise prohibited by law).

5. Developer Default

Developer shall be in default in the event that DEDA does not receive payment within fifteen (15) days of invoice date. In such event, DEDA shall be entitled to reimbursement of all unpaid amounts due under the BARR Agreement, plus interest from the date of invoice at the rate of 12%.

6. Independent Contractor

It is agreed that nothing herein contained is intended or shall be construed in any manner as creating or establishing a relationship of co-partners, agents, partners, joint venturers or associates between the parties hereto or of constituting Developer as an agent, representative or employee of DEDA for any purpose or in any manner whatsoever.

7. Rules and Regulations

Developer agrees to observe and comply with all laws, ordinances, rules and regulations of the

United States of America, the State of Minnesota and DEDA and their respective agencies which are applicable to its activities under this Agreement.

8. Notices

Notice to DEDA or Developer provided for herein shall be sufficient if sent by the regular United States mail, postage prepaid, addressed to the parties at the addresses hereinafter set forth or to such other respective persons or addresses as the parties may designate to each other in writing from time to time:

DEDA: Duluth Economic Development Authority
Executive Director
Room 402 City Hall
Duluth, MN 55802

Developer: IKONICS CORPORATION
4832 Grand Avenue
Duluth, MN 55807

9. Waiver

Any waiver by either party of any provision of this Agreement shall not imply a subsequent waiver of that or any other provision.

10. Applicable Law

This Agreement, together with all of its paragraphs, terms and provisions is made in the State of Minnesota and shall be construed and interpreted in accordance with the laws of the State of Minnesota. All proceedings related to this Agreement shall be venued in St. Louis County, Minnesota.

11. Severability

In the event any provision herein shall be deemed invalid or unenforceable, the remaining provisions shall continue in full force and effect and shall be binding upon the parties to this Agreement.

12. Entire Agreement

It is understood and agreed that the entire agreement of the parties is contained herein and that this Agreement supersedes all oral agreements and negotiations between the parties

relating to the subject matter hereof. Any amendment to this Agreement shall be in writing and shall be executed by the same parties who executed the original agreement or their successors in office.

IN WITNESS WHEREOF, the parties have hereunto set their hands the day and date first above shown.

DULUTH ECONOMIC DEVELOPMENT AUTHORITY

IKONICS CORPORATION

By: _____

By: _____

Its President

Its: _____

By: _____

Its Secretary



March 12, 2015

Ms. Heidi Timm-Bijold
City of Duluth
411 West First St.
Duluth, MN 55802

Accept Proposal:
Xi Heidi Bijold 3-12-15
[Signature] 3/16/15

**Re: Proposal for Environmental Observation & Screening of Soil Borings
IKONICS Expansion Project- Commonwealth Ave and Glumac Dr Property
Duluth, Minnesota**

Dear Ms. Timm-Bijold:

Barr Engineering Co. (Barr) is pleased to propose our environmental field observation and soil screening services to the Duluth Economic Development Authority (DEDA) during drilling which will occur at the IKONICS expansion site noted above. IKONICS has arranged for geotechnical soil borings to be performed in support of planning for its building expansion at the above referenced development site. Barr will observe soil borings being performed by IKONICS' driller. If necessary Barr may field screen selected soil samples collected by the geotechnical driller. The primary purpose of the soil borings is to evaluate geotechnical conditions at the building site. The concurrent observation and screening of each soil boring will be performed by Barr on behalf of DEDA. The observations will evaluate the soils encountered for evidence of potential environmental concerns and the potential presence of fill. As a contingency, Barr will be prepared to collect soil analytical samples. No analyses will be performed without first consulting DEDA and obtaining authorization to provide that additional work (which would require additional cost and authorization). Barr will summarize field notes describing our observations and soil screening (if performed). Barr may request copies of the drilling contractor's boring logs for reference and documentation purposes.

Project understanding

The IKONICS geotechnical drilling contractor is completing a series borings for a proposed building expansion at the IKONICS site in Morgan Park, Duluth. DEDA is responsible for managing environmental conditions, if found at the site. DEDA has requested that Barr have a field scientist on site to observe the soil borings and document observed soil conditions encountered during each boring. IKONICS has indicated that the drilling will take approximately 1.5 days and may begin as soon as Monday March 16, 2015. Barr's role is as an observer and as such Barr will not supervise or direct the driller or its operations. Requests from Barr for specific sample materials, if made, will be subject to IKONICS' approval and will be secondary to the needs of the geotechnical scope and testing processes. It is understood that IKONICS will reimburse DEDA for Barr's environmental observation time and expenses. Barr's costs and labor will be documented and are expected to be in accordance with this proposed scope, estimate and the noted assumptions.

Scope of work

The proposed scope of Barr's work is summarized below.

- Observation of soil boring drilling and sampling. This includes:
 - Observe and document (notes and may include field photographs) soils, stratigraphy, and conditions encountered in approximately 8 borings in conjunction with the drilling contractor's normal drilling process.
 - Assumes 1.5 days in the field in March 2015 and up to 9 hour work days. Schedule assumptions were made based on the IKONICS-identified borings and on the drilling schedule provided by IKONICS. The schedule and number of days onsite may vary based on the rate of drilling progress and the actual number and depth of borings completed.
 - Barr may request a copy of the drilling contractor's boring logs.
- Barr will prepare a brief letter (up to four pages) reporting our field observations.

Staff assigned to project

The following is the list of consulting staff that may be used for this project. The exact staff assignments will be based on availability and project timing.

Team Members	Title	Chargeable Rate
Eric Dott	Principal in Charge	\$175.00
Ryan Erickson	Project Manager	\$110.00
	Field Technician	\$85.00
	Administrative Support	\$70.00

Cost Estimate

Based on our experiences on similar projects, Barr has estimates that our labor and expenses will be approximately \$2,800 to \$3,200. Our cost estimate detail is provided on the attached spreadsheet table. Barr proposes to provide our professional services on a time and materials basis in accordance with our standard fee schedule and in accordance with our existing Professional Services Agreement with DEDA dated February, 2015.

Schedule

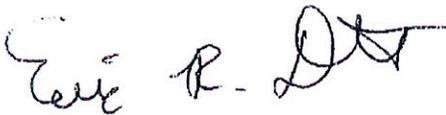
Barr is prepared to begin work on this project immediately. We understand that this work is targeted to begin the week of March 16, 2015, and is expected to be completed within approximately 1.5 days.

Authorization

Barr will be prepared to assist the city with this project immediately and we assume purchase order or authorization from DEDA will be provided within the next few business days. Barr appreciates the opportunity to submit this proposal to you. Please contact me at 218-529-8234 or email me at edott@barr.com if you have questions.

Sincerely,

Barr Engineering, Inc.



Eric Dott, P.G.
Vice President

Cc: Claude Piquet, IKONICS

REE:ERD

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Cost Estimate and Proposal
 IKONICS Expansion Environmental Observation Assistance
 Commonwealth Ave. and Glumac Dr. Property
 Duluth, MN

Staff Subtasks	PIC		PM REE	Environmental or Civil Engineer MH	Engineering Technician BLJ2	Engineering Technician/Envir Scientist BLJ	Technical Support/ CAD Tech TBD	GIS Support JWK	Adm Support TBD	Labor Subtotal	Expenses	Subcontractor	Mark Up 10%	Task Total
	ERD	ERD												
Paved Parking/Storage area plans development			\$115	\$110	\$80	\$85	\$100	\$80	\$65					
Preparation, health and safety plan update, field prepn.	1		1							\$290				\$290.00
Field observation and screening of geotechnical soil borings (no samples)			4			13.5		1		\$1,608	\$327			\$1,934.05
Summarize observations and field measurements in accordance with CCP	1		2							\$0	\$75			\$560.00
Agency liaison assistance (contingency if environmental conditions found)										\$0	\$100			\$100.00
Meetings and coordination										\$0				\$0.00
Total Hours										\$0				\$0.00
Total Cost										\$0				\$0.00
Expenses														\$0.00
Item														\$0.00
Travel														\$0.00
Mileage														\$0.00
Per Diem														\$0.00
Hotel														\$0.00
Copies														\$0.00
Postage/shipping														\$0.00
Equipment														\$0.00
Field vehicle														\$0.00
Field photometer detector (PID)														\$0.00
Assumptions														\$0.00
Geotechnical soil borings that require environmental observation will require 1.5 days to drill (13.5 hours).														\$0.00
Barr field geologist to observe about 100 % of the drilling work.														\$0.00
No soil or groundwater samples collected or analyzed.														\$0.00
Barr will be prepared to collect contingency samples- additional discussion/authorization will be needed if laboratory analyses are requested.														\$0.00
The geotechnical work will be completed before 3/25/2015.														\$0.00

Item	cost	quantity	unit	isum
Mileage	\$0.57	20	each	\$
Per Diem			day	\$
Hotel			day	\$
Copies	\$0.07	75	sheet	\$
Postage/shipping	\$50.00		project	\$
Field vehicle	\$	55	2 day	\$
Field photometer detector (PID)	\$	100	2 day	\$

\$ 327



May 8, 2015

Ms. Heidi Timm-Bijold
City of Duluth
411 West First St.
Duluth, MN 55802

**Re: Proposal for Environmental Contingency Assistance
IKONICS Expansion Project - Commonwealth Ave and Glumac Drive Property
Duluth, Minnesota**

Dear Ms. Timm-Bijold:

Barr Engineering Co. (Barr) is pleased to submit a proposal to the Duluth Economic Development Authority (DEDA) for potential environmental field assessment and documentation activities during the 2015 IKONICS expansion at the above referenced development site. During construction related excavation, foundation work and grading, Barr will be available to respond to the site, as needed, if soil with potential environmental conditions are encountered by the construction contractor.

Project understanding

IKONICS is planning to conduct a facility expansion construction project during the summer of 2015 at their site in Morgan Park, Duluth. We understand that through its agreement with IKONICS, DEDA is responsible for managing environmental conditions, if found at the site. DEDA has requested that Barr have a field scientist available to respond to the site to assess and document soil with potential environmental conditions and assist with subsequent remedial and contaminated material management actions, if necessary. It is understood that IKONICS will reimburse DEDA for Barr's environmental observation time and expenses. Barr's costs and labor will be documented and are expected to be in accordance with this proposed scope, cost estimate and the noted assumptions.

Based on Barr's previous environmental oversight during the construction of the existing building in 2008 and on Barr's observations made during the advancement of seven geotechnical borings in the expansion footprint in 2015, Barr does not anticipate that contaminated soil will be encountered in the expansion excavation. If potential environmental conditions are identified, Barr's proposed scope of work is summarized below.

Scope of work

If soil with potential environmental conditions is identified by the construction contractor, Barr will initiate the following sequence of response activities to characterize and remediate, if necessary, the suspect location:

- *Preliminary Field Assessment:* When called to the site, Barr will field screen soil from the suspect location to evaluate whether potential contamination is present. Field screening will consist of testing soil with a photoionization detector (PID) in accordance with headspace procedures and

observing soil for other physical evidence of contamination (obvious odor, discoloration, sheen, presence of debris). If it is determined that contamination may be present, a composite soil sample will be collected from the excavation to determine if concentrations in the soil exceed MPCA action levels. A brief field communication (email) describing the field assessment will be provided to DEDA within one working day of the event.

- *Contaminated Excavation Oversight and Sampling:* If contaminated soil is identified in the *Preliminary Assessment* and it is determined that removal or segregation of impacted soil is necessary, Barr will field screen soil during excavation activities in that location to determine the extent of the contamination and/or the excavation area. After excavation activities are completed, Barr will collect analytical soil samples from the final extent of the removal area to document whether residual contamination is present. Barr will also photograph the excavation activities and GPS the excavation location and sample points.
- *Contaminated Material Management Assistance:* If contaminated soil is generated, Barr will collect waste characterization samples and assist with material management solutions.
- *Reporting and Communications:* Barr will prepare a summary report documenting the field assessment activities and results that can be submitted to the MPCA as a site update.

Based on the findings of the preliminary field assessment, not all of the activities listed above may be required. If potential environmental conditions are identified in multiple locations, separate assessment and sampling activities would be required for each location. Barr assumes that a typical field event will be approximately 9-hours (one work day). Barr understands that it may be necessary to streamline the assessment and excavation oversight steps in order to support the on-going construction activities. We will communicate with DEDA immediately if concerns are raised by the contractor regarding schedule or work sequencing.

Cost Estimate

Barr proposes to provide our professional services on a time and materials basis in accordance with our standard fee schedule and in accordance with our existing Professional Services Agreement with DEDA dated February, 2015.

These are contingency steps and are based on our experiences on similar projects, Barr has estimated that our labor, equipment and expenses and laboratory costs for the various contingency phases may be as follows:

Project Phase	Labor/Equipment	Laboratory Cost	Totals
Preliminary Field Assessment	\$1,500 <i>(per day/event)</i>	\$150	\$1,650
Excavation Oversight	\$1,500 <i>(per day/event)</i>	\$350	\$1,850
Material Management Assistance	\$750	\$150 <i>(per site)</i>	\$800
Reporting	\$2,500 to \$3,000	NA	\$2,500 to \$3,000
Total (1 site)	\$6,250	\$650	\$6,900
Total (3 sites)	\$12,750	\$1,950	\$14,700

If more than one day of oversight is required for the preliminary assessment or excavation oversight or additional laboratory analyses are required, additional budget authorization may be necessary.

Please note that these cost estimates do not include costs for excavation contractors, waste disposal, other remedial implementation measures, or equipment costs of the remediation contractor. It is also assumed that contractors have applicable safety training and certification to work with potentially contaminated soil.

Staff Assigned to Project

The following is the list of consulting staff that may be used for this project. The exact staff assignments will be based on availability and project timing.

Team Members	Title	Chargeable Rate
Eric Dott	Principal in Charge	\$175.00
Ryan Erickson	Project Manager	\$110.00
	Field Technician	\$70.00
	Administrative Support	\$70.00

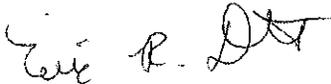
Schedule

We understand that the building expansion work is targeted to begin during the summer of 2015. Barr will be available to respond if and when potential environmental conditions are identified at the project site.

Authorization

Barr will be prepared to assist the city with this project immediately and we assume purchase order or authorization from DEDA will be provided within the next few business days. Barr appreciates the opportunity to submit this proposal to you. Please contact me at 218-529-8234 or email me at edott@barr.com or contact Ryan Erickson at 218-529-7112 or email rerickson@barr.com if you have questions.

Sincerely,



Eric Dott, P.G.
Vice President

Barr Engineering, Inc.

Cc: Claude Piquet, IKONICS

REE:ERD



Fee Schedule—2015

Rev. 01/01/15

Description	Rate* (U.S. dollars)
Principal	\$145-295
Consultant/Advisor.....	\$155-250
Engineer/Scientist/Specialist III.....	\$125-150
Engineer/Scientist/Specialist II.....	\$95-120
Engineer/Scientist/Specialist I.....	\$65-90
Technician III.....	\$125-150
Technician II.....	\$95-120
Technician I.....	\$50-90
Support Personnel II.....	\$95-150
Support Personnel I.....	\$50-90

Rates for litigation support services will include a 30% surcharge.

A ten percent (10%) markup will be added to subcontracts for professional support and construction services to cover overhead and insurance surcharge expenses.

Invoices are payable within 30 days of the date of the invoice. Any amount not paid within 30 days shall bear interest from the date 10 days after the date of the invoice at a rate equal to the lesser of 18 percent per annum or the highest rate allowed by applicable law.

Reimbursable expenses including, but not limited to, the actual and reasonable costs of transportation, meals, lodging, parking costs, postage, and shipping charges will be billed at actual cost. Materials and supplies charges, printing charges, and equipment rental charges will be billed in accordance with Barr's standard rate schedules. Mileage will be billed at the IRS-allowable rate.

Principal category includes consultants, advisors, engineers, scientists, and specialists who are officers of the company.

Consultant/Advisor category includes experienced personnel in a variety of fields. These professionals typically have advanced background in their areas of practice and include engineers, engineering specialists, scientists, related technical professionals, and professionals in complementary service areas such as communications and public affairs.

Engineer/Scientist/Specialist categories include registered professionals and professionals in training (e.g. engineers, geologists, and landscape architects), and graduates of engineering and science degree programs.

Technician category includes CADD operators, construction observers, cost estimators, data management technicians, designers, drafters, engineering technicians, interns, safety technicians, surveyors, and water, air, and waste samplers.

Support Personnel category includes information management, project accounting, report production, word processing, and other project support personnel.

*Rates do not include sales tax on services that may be required in some jurisdictions.



Rental Equipment Rate Schedule—2015
(Alphabetized)
(see general and end notes)

Rev. 01/01/15
Sheet 1 of 7

Description

(U.S. dollars)

	Rate	Unit
Non-Expendable Equipment		
Air Quality		
Air-Cooled M5 Probe/Oven Assembly.....	300.00	Day
Ambient SO ₂ Monitor.....	100.00	Day
Analytical Balance (each usage).....	6.00	Use
Analyzer Filter Oven.....	15.00	Day
Analyzer Support Kit (a.).....	400.00	Day
Anemometer.....	50.00	Day
CO Analyzer.....	250.00	Day
CO Cal Gases (set of 2).....	40.00	Day
CO/O ₂ /CO ₂ Regulators (set of 2).....	20.00	Day
Data Logger.....	40.00	Day
Delta Calibrator.....	100.00	Day
Digital Calibrator.....	30.00	Day
Dilution Calibrator.....	200.00	Day
Dual Pen Strip Chart.....	50.00	Day
EPA 6 SO ₂ Analysis Kit.....	60.00	Day
EPA Method 25 (TGNMO) Sampling Train.....	250.00	Day
EPA Method 202.....	130.00	Test
EPA Method 3 ORSAT Analyzer.....	25.00	Day
EPA Method 30B Probe.....	50.00	Day
EPA Method 4.....	270.00	Day
EPA Method 5 Sampling Train.....	400.00	Day
EPA Method 5 Wet Test Meter Calibrator.....	240.00	Day
Gas Conditioner.....	60.00	Day
Heated Sample Line (100').....	100.00	Day
Heated Sample Line (150').....	100.00	Day
Heated Sample Line (50').....	60.00	Day
Hivol Ambient Sampler Calibration Kit.....	25.00	Day
Hydrocarbon Calibration Gases.....	60.00	Day
Hydrocarbon Regulator Set.....	30.00	Day
Met Station Calibration Kit.....	120.00	Day
Midget Impinger Sample Line.....	50.00	Day
Midget Impinger Sampling Train.....	40.00	Day
NCASI Method 8A Train.....	250.00	Day
NCASI Sample Train.....	50.00	Day
NO _x Analyzer.....	260.00	Day
NO _x Cal Gases (set of 2).....	40.00	Day
NO _x /SO ₂ Regulators (set of 2).....	25.00	Day
O ₂ /CO ₂ Analyzer.....	250.00	Day
O ₂ /CO ₂ Cal Gases (set of 2).....	40.00	Day
PM ₁₀ /2.5 In. Stack Separators.....	100.00	Day
Ohio Lumex Mercury Analyzer.....	1,500.00	Day
PM ₁₀ BAM-1020.....	370.00	Month
PM ₁₀ HiVol.....	120.00	Month
Portable Oxygen Analyzer.....	40.00	Day
Primary Standard Flow.....	60.00	Day
Single Pen Strip Chart Recorder.....	35.00	Day



Rental Equipment Rate Schedule—2015
(Alphabetized)
(see general and end notes)

Rev. 01/01/15
Sheet 2 of 7

Description (U.S. dollars)

	Rate	Unit
SO ₂ Analyzer.....	300.00	Day
SO ₂ Calibration Gas.....	40.00	Day
Total Hydrocarbon Analyzer.....	400.00	Day
TRS Kit.....	100.00	Day
TSP Hi-Vol Sampler.....	30.00	Day
Unheated Sample Line (100 ft.).....	40.00	Day
Universal Control Console (Vost Meter).....	200.00	Day
Volumetric Air Flow Measurement Kit.....	60.00	Day
Field Equipment		
1½-inch Submersible Purge Pump.....	35.00	Day
Alpha Water Bottle (each usage).....	3.00	Use
Area/Velocity Flow Meter.....	35.00	Day
Automatic Sampler with Depth Sensor and Flow Meter.....	60.00	Day
Automatic Sampler.....	30.00	Day
Conductivity Meter.....	17.50	Day
Current Meter Suspension Kit.....	55.00	Day
Data Transfer System (DTU).....	22.00	Day
Depth Sensor/Flow Meter Only.....	30.00	Day
Dissolved Oxygen Meter.....	29.00	Day
Dissolved Oxygen Sensor/Data Logger System.....	30.00	Day
Dissolved Oxygen/Conductivity Meter.....	38.25	Day
Ekman Dredge.....	6.00	Day
Electric Vacuum Pump.....	10.00	Day
Environmental Equipment Shelter.....	2.75	Day
Field Rugged Laptop/Pocket PC.....	25.00	Day
Fluorometer Kit, Model 10-AU.....	240.00	Day
GEM 2000 Landfill Gas Analyzer.....	87.00	Day
Gas Centrifugal Pump.....	26.75	Day
Gas Generator.....	29.00	Day
Gator Diesel Air Compressor.....	60.00	Day
Hand Vacuum Pump.....	2.30	Day
Hand-held Velocity Flow Meter.....	40.50	Day
Heavy-Duty Weed/Brush Trimmer.....	17.00	Day
HOBO Weather Station.....	21.00	Day
Immunoassay Field Photometer.....	61.50	Day
Kemmerer Vertical Bottle Sampler.....	33.50	Use
LR-24 Electro-Fisher.....	200.00	Day
Measurement and Control Datalogger.....	13.00	Day
Oil, Water Interphase Probe.....	60.00	Day
Peristaltic Pump.....	35.00	Day
Petite Ponar Dredge.....	14.50	Day
pH Meter.....	27.75	Day
Phipps & Bird Jar Tester.....	30.00	Day
Pneumatic Slug Kit.....	9.00	Day
Portable Colorimeter.....	34.75	Day
Portable Doppler or TT Ultrasonic Flow Meter.....	69.00	Day
Portable Field Scale.....	15.00	Day
Power Cable for Sodar Equipment.....	167.00	Month



Rental Equipment Rate Schedule—2015
 (Alphabetized)
 (see general and end notes)

Rev. 01/01/15
 Sheet 3 of 7

Description (U.S. dollars)

	Rate	Unit
Pressure Transducer.....	40.50	Day
RST Single-Channel Vibrating Wire Data Logger.....	4.00	Day
Sediment Corer (per sample).....	5.75	Use
Seisgun.....	60.00	Day
Shear Cell.....	419.00	Day
Sodar Trailer (3-month minimum).....	3,000.00	Month
Soil Core Sampler/ Bucket Auger.....	29.00	Day
Soil Vapor Apparatus.....	27.00	Day
Soil Vapor Extraction System with Trailer.....	135.00	Day
Solar Panel Module w/Charge Controller.....	12.00	Day
Sontek ADV (Acoustic Doppler Velocimeter).....	128.00	Day
Spectrometer UV/VIS Ocean Optics.....	115.00	Day
Spill Containment Kit.....	10.00	Day
Split Tube Soil Probe/Hand Auger.....	12.00	Day
Submersible Pump (SS w/controller).....	125.00	Day
Sub-Slab Vapor Sampling Kit.....	50.00	Use
Temperature Datalogger.....	1.50	Day
Temperature, Level, Conductivity Meter (Solinst).....	45.00	Day
Tent.....	15.00	Day
Turbidimeter.....	25.00	Day
Turbidity Sensor w/Cable, DTS-12.....	43.00	Day
Turbidity, Chlorophyll Sond – DS5X.....	77.00	Day
Underwater Viewing System.....	60.00	Day
Vibra-coring System (for Jon Boat).....	150.00	Day
Vibra-coring System (for Pontoon).....	500.00	Day
VW Piezometer/Data Logger Combo.....	200.00	Use
Water Level/Temperature Probe/Datalogger (Level Troll).....	45.00	Day
Water Quality Meter (YSI 556 MPS).....	85.00	Day
Well Level Indicator.....	22.00	Day
WTW 1970i Conductivity Meter.....	85.00	Day
Zooplankton Net.....	7.00	Day
Zooplankton.....	145.00	Day
Hardware and Software		
Chemcad.....	30.00	Hour
Geomos Alarm Package.....	250.00	Month
Geomos Analyzer.....	200.00	Month
Geomos Now! Web Presentation Software.....	900.00	Month
Geomos Software – Total Station and Control Software.....	2,400.00	Month
MineSight Software.....	50.00	Hour
Tablet Computer.....	15.00	Day
Vista Data Vision, Presentation Software.....	150.00	Month
Vulcan Software.....	40.00	Hour
Materials and Testing		
Borehole Camera System.....	140.00	Day
Brass Sieve Set.....	6.00	Day
Chlorophyll a (CHL a).....	60.00	Day
Coarse Sieve Set.....	10.00	Day
Concrete Air Meter.....	36.00	Day



Rental Equipment Rate Schedule—2015
 (Alphabetized)
 (see general and end notes)

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Description (U.S. dollars)

	Rate	Unit
Concrete Test Hammer.....	40.50	Day
DL Plus Ultrasonic Kit (37DL, 36DL, 26XTDL).....	62.00	Day
Double Ring Infiltrometer.....	65.00	Day
Dual-Mass Dynamic Cone Penetrometer.....	50.00	Day
Dye Penetrant Kit.....	22.00	Day
Flat Plate Dilatometer.....	500.00	Day
Geomil VST Electrical Vane Tester.....	500.00	Day
Hand Vane Shear.....	98.50	Day
Heavy-Duty Balance.....	16.00	Day
Horizontal Sample Ejector.....	29.50	Day
Kessler Field Moisture Oven.....	45.00	Day
Liquid Limit Set.....	7.50	Day
Load Plate Apparatus.....	230.00	Day
Magnetic Crawler.....	48.00	Day
Magnetic Particle Kit.....	38.00	Day
Manual Extensometer (Slideminder).....	32.00	Day
Metal Thickness Gauge.....	50.00	Day
Minimate Plus Blast Monitor.....	100.00	Day
Paint Thickness Gauge.....	15.00	Day
Phytoplankton.....	145.00	Day
Platform Beam Scale.....	14.75	Day
Point Load Testing System.....	78.00	Day
Portable CPT.....	200.00	Day
Power Auger.....	43.00	Day
Proctor Set.....	4.50	Day
Resistivity Meter (Ultra Mini-Res).....	110.00	Day
Sample Splitter.....	5.00	Day
Sand Cone Set.....	10.00	Day
SINCO Inclinometer Probe.....	200.00	Day
Soluble Reactive Phosphorus.....	28.00	Day
Torvane Shear Device.....	2.50	Day
Total Dissolved Phosphorus.....	30.00	Day
Total Nitrogen (TN).....	40.00	Day
Total Phosphorus (TP).....	23.00	Day
Vertex CPT Equipment.....	593.00	Day
Vibrating Wire Logger SINCO VW2104.....	24.00	Day
Water Treatment Lab.....	200.00	Day
Weld Inspection Equipment.....	12.00	Day
Safety		
Emergency Escape Breathing Apparatus (EEBD).....	18.00	Day
Aerosol/Dust Monitor (PDR-1000).....	67.75	Day
Calibration Gas Kit.....	8.75	Day
CO Monitor (ISC T82).....	36.00	Day
Combustible Gas Indicator - O ₂ , LEL, H ₂ S and/or CO Meter.....	45.00	Day
Confined Space Rescue Retrieval Equipment.....	295.00	Day
Confined Space Ventilator.....	54.75	Day
Detector Tube Pump.....	15.00	Day
Diesel Particulate Monitor Kit FLIR.....	200.00	Day



Rental Equipment Rate Schedule—2015
(Alphabetized)
(see general and end notes)

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Sheet 5 of 7

Description (U.S. dollars)

	Rate	Unit
Dry Cell Air Flow Calibrator	50.00	Day
Flame Ionization Detector (TVA-1000).....	133.00	Day
Flotation Worksuit	19.75	Day
Full-Face Respirator.....	8.00	Day
H ₂ S Meter (I.S.C. T40)	27.00	Day
Half-Face Respirator	6.00	Day
Personal Air Sampling Pump (SKC)	38.00	Day
Photoionization Detector (10.6eV Lamp)	110.00	Day
Photoionization Detector (11.8eV Lamp)	130.00	Day
RKI Eagle-2 Multi-gas Monitor	105.00	Day
Self-Retracting Lifeline (30').....	56.00	Day
Sound Level Meter	48.75	Day
Supplied Air Breathing System with SCBA	75.50	Day
Survey		
Aquatic Invasive Species Decon System.....	170.00	Day
Bathymetry Survey System - Odom	524.00	Day
Canoe.....	21.75	Day
Cellular Modem	100.00	Month
Cellular Modem Antenna.....	25.00	Month
Chain Saw.....	23.00	Day
Communication Radios (set).....	17.75	Day
Differential GPS System (Trimble)	90.00	Day
GPS Camera Kit (Ricoh 500SE)	22.00	Day
Hand Ice Auger	7.00	Day
Iron Locator	17.50	Day
Jon Boat & Trailer	52.00	Day
Kayak	35.00	Day
Laser Range Finder	87.00	Day
LCD Depth Locator	11.50	Day
Leica HDS Scan Station Model C10	1,000.00	Day
Leica Structural Monitoring AMTS	97.00	Day
Outboard Motor	46.50	Day
Pontoon Boat Coring Platform	200.00	Day
Power Ice Auger.....	30.00	Day
Robotic Total Station	45.00	Hour
RTK GPS Survey System (4-hour minimum)	55.00	Hour
Side Scanning Depth Finder	75.00	Day
Spectra Laser Level	25.00	Day
Survey Set (Level, Tripod and Rod).....	20.75	Day
Total Station Survey Set – Complete	116.50	Day
Trolling Motor and Battery	48.00	Day
Utility Locator	41.00	Day
Z-Boat Bathymetry Survey System	150.00	Hour
Vehicles and Trailers		
4WD All-Terrain Vehicle.....	89.50	Day
Air Sampling Trailer.....	110.00	Day
Heavy Trailer Towing Mileage (in addition to vehicle mileage at IRS rate)	0.25	Mile
Utility Trailer	35.00	Day



Rental Equipment Rate Schedule—2015
 (Alphabetized)
 (see general and end notes)

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 Sheet 6 of 7

Description (U.S. dollars)

	Rate	Unit
Vehicle – 2WD Field	50.00	Day
Vehicle – 4WD Field	65.00	Day
Vehicle – Cube Truck.....	80.00	Day
Vehicle – Personal (b).....	50.00	Day
Vehicle Mileage (company and personal)	IRS Rate	
Communications and Imaging		
Cellular Telephones, Including Air Time	3.00	Day
Digital Camera	12.00	Day
Video Camera	20.00	Day
Expendable Field Supplies		
1-Liter Hazmat Cooler Packaging	83.00	Each
2-Liter Hazmat Cooler Packaging	102.00	Each
3/8-Inch I.D. PVC Tubing	0.39	Foot
3/8-Inch I.D. Silicone Pump Tubing	6.15	Foot
4-mil Quart Reclosable Bag (pack of 50)	5.15	Pack
5-Gallon Hazmat Packaging	28.00	Each
500-ml Disposable Filtration Apparatus	17.50	Each
Latex Boot Covers.....	4.95	Pair
Colorimetric Water Analysis Kit (each test).....	1.90	Test
Compressed Nitrogen (300 cf)	16.00	Each
Compressed Nitrogen (45 cf)	2.50	Each
Core Tubing – 3" Aluminum	3.50	Foot
Detector Tubes	7.00	Each
Distilled Water (1 gal.).....	1.50	Each
Dot Gloves	1.50	Pair
Encore Sampler - 25 Gram	10.00	Each
Fabric Soil Sample Bag.....	4.30	Each
Fence Post & Hardware for Stream Gages.....	11.50	Each
Field Book/Construction Diary (large)	20.75	Each
Field Book/Construction Diary (small).....	15.50	Each
Five Gallon Pail with Lid.....	8.75	Each
Hydrochloric Acid (per liter).....	13.50	Each
Ice	2.00	Bag
In-Line Groundwater Filter.....	16.00	Each
Lath, 4'	25.00	Bundle
Leather Gloves.....	4.50	Pair
Lock	14.00	Each
Nitrile Gloves – Heavy Duty	2.35	Pair
Paint Can, 1-Gallon Empty.....	1.25	Each
Paper Towels	2.00	Roll
Pin Flagging (bundle of 100)	14.00	Bundle
Poly-Coated Tyvek Coverall	7.75	Each
PVC-Coated Winter Gloves	8.65	Pair
Respirator Cartridges – OVAG.....	34.00	Pair
Rock Chip Tray	4.25	Each
Roll Flagging (150')	2.25	Each
Saranex Tyvek Coverall	19.00	Each
Snap Top Sediment Container (8 oz.).....	0.70	Each



Rental Equipment Rate Schedule—2015
 (Alphabetized)
 (see general and end notes)

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Description (U.S. dollars)

	Rate	Unit
Spray Paint	5.75	Each
Staff Gauge	49.00	Each
Stakes	21.25	Bundle
Surgical Gloves – Thin Nitrile.....	0.30	Pair
Tyvek Boot Covers	4.20	Pair
Tyvek/Kleenguard Coverall	6.75	Each
Vapor Pin – Permanent Install Kit	150.00	Each
Weighted Disposable Bailer	5.00	Each
Winter Glove Liner	3.00	Pair

General Notes: Applicable to all Equipment Listed on this Schedule

- 1.) Minimum rental period is 0.5 days unless noted.
- 2.) Rental charges begin on the first day the equipment is used on a project.
- 3.) Rental charges end on the last day the equipment is used on a project.
- 4.) A 25 percent weekly rate discount will apply to equipment rented on a daily basis for 5 or more days
- 5.) A 40 percent monthly discount will apply to equipment rented on a daily basis for 20 or more days.
- 6.) Equivalent equipment/models may be substituted for the items listed.

End Notes: Applicable to Only the Equipment Noted

- a.) Analyzer Support Kit includes the following: Airflow Kit, Heated Sample Line (50'), Heated Sample Line (100'), Gas Conditioner, Heated Filter Box, Single Pen Recorder, Dual Pen Strip Chart, Data Logger, C3/C4 Cal Gases (set), NO_x/SO₂ Cal Gases (set), CO Cal Gases (set), CO₂/O₂ Cal Gas (set of 2), SO₂ Cal Gas (set of 2), C3 Regulator Set, NO_x/SO₂ Regulators (set of 2), and CO/CO₂/O₂ Regulators (set of 2)
- b.) Employee personal vehicles subjected to field, off-site, transport or other severe duty.



Copy Production Rate Schedule—2015

Companywide
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Sheet 1 of 1

Description	Rate (U.S. dollars)
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Reproduction

Photocopies (8½ x 11, 8½ x 14, 11 x 17)	0.07
Color Copies (8½ x 11, 8½ x 14, 11 x 17)	0.50
Large-Format B&W Copies/Plots (22 x 34, 24 x 36, etc.)	1.00

Printing/Plotting

Color Prints (8½ x 11, 8½ x 14, 11 x 17)	0.75
Large-Format Color Plots (22 x 34, 24 x 36, etc.)	
Bond	2.00/sq. ft.
Photo Grade	4.00/sq. ft.

Other

Fax	0.75
Binding (dependent on size)	2.00-20.00
CD Holders	0.70
Tabs	0.50