RESOLUTION 14D-39

RESOLUTION AUTHORIZING A FOURTH AMENDMENT TO THE PROFESSIONAL SERVICES AGREEMENT WITH BARR ENGINEERING COMPANY FOR MANAGEMENT OF ENVIRONMENTAL CLEANUP AT THE ATLAS INDUSTRIAL PARK SITE

RESOLVED, by the Duluth Economic Development Authority ("DEDA") that the proper DEDA officials are hereby authorized to enter into a fourth amendment, substantially in the form of that attached hereto (Contract No. 11 860 629[4]), with Barr Engineering Company ("Barr"), expanding the scope of services, extending the contract term and increasing the amount payable thereunder by $113,670 for a total amount payable of $735,177, payable from Fund 860.

Approved by the Duluth Economic Development Authority this 27th day of August, 2014.

ATTEST:

APPROVED AS TO FORM

JMC

DEDA Attorney

APPROVED FOR PRESENTATION

CTE

Executive Director

_____

Executive Director

STATEMENT OF PURPOSE: The purpose of this resolution is to amend the Professional Services Agreement with Barr Engineering for Management of Environmental Cleanup at the Atlas Industrial Park Site. This is the fourth amendment to the agreement and provides an updated scope of professional services provided by Barr in the implementation of the MPCA-approved Voluntary Response Action Plan (VRAP) (and subsequent amendments) at the Atlas site. It also extends the contract period by one year, to September 30, 2015. EPA cleanup and green infrastructure funds have been budgeted to cover the cost of this additional work that will be used to better manage stormwater, at least some of which tends to exhibit high-pH characteristics, and to further prepare sites for redevelopment. The amended scope of work included in this amendment more accurately reflects the work required of, and provided by Barr retroactive to May 1, 2014, for this evolving remediation project, and accounts for the remaining balance of EPA funds slated to be spent at Atlas over the next year.

At the completion of this contract next September, Barr will have managed that 4-year period at Atlas during which significant infrastructure construction, stormwater management implementation and site remediation occurred. 100% of this contract amendment is grant –funded.

AGREEMENT FOR PROFESSIONAL ENVIRONMENTAL SERVICES

BARR ENGINEERING COMPANY

FOURTH AMENDMENT

THIS FOURTH AMENDMENT, entered into this ____ day of _____, 2014, by and between the DULUTH ECONOMIC DEVELOPMENT AUTHORITY, hereinafter referred to as "DEDA," and BARR ENGINEERING COMPANY, located at 332 West Superior Street, Duluth, Minnesota 55802, hereinafter referred to as "Service Provider," for the purpose of rendering services to DEDA.

WHEREAS, on June 27, 2011, DEDA entered into an Agreement with Service Provider pursuant to which Service Provider agreed to provide professional services for the Voluntary Response Action Plan Implementation, Observation and Public Meeting Support for the Atlas Industrial Park development project;

WHEREAS, on November 16, 2011, DEDA and Service Provider entered into a first amendment to the agreement expanding the scope of services to be provided thereunder; and

WHEREAS, on March 13, 2012, DEDA and Service Provider entered into a second amendment to the agreement further expanding the scope of services to be provided and increasing the amount payable thereunder; and

WHEREAS, on August 8, 2013, DEDA and Service Provider entered into a third amendment to the agreement further expanding the scope of services to be provided and extending the time within which the performance of services is to be completed (the agreement and the first and second amendments thereto hereinafter referred to as the "Agreement"); and

WHEREAS, the parties desire to further amend the Agreement to further expand the scope of services to be provided, increase the amount payable thereunder and extend the time within which the performance of services to be provided under the Agreement shall be completed.

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

1. Article I, Services to be Performed, is hereby amended to expand the scope of services to include those services described in Exhibit A-4 attached hereto and incorporated herein.
2. Article II, Compensation, is hereby amended to increase the amount payable under the Agreement by an amount not to exceed $113,670, for a total amount payable under the Agreement in an amount not to exceed $735,177, payable from Fund 860.
3. Paragraph 7 of Article III, Contract Period, is hereby amended to extend until September 30, 2015, the time within which the performance of services to be provided under the Agreement shall be completed.
4. Except as provided in this Fourth Amendment, all terms and conditions of the Agreement shall remain in force and effect.

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

DULUTH ECONOMIC DEVELOPMENT AUTHORITY

By_____
President

By_____
Secretary

BARR ENGINEERING COMPANY

By_____
Company Representative

Its_____
Title of Representative

I:\ATTORNEY\DEDA (015)\Other Projects (OP)\Atlas Cement Plant (XX-0029)\Fourth Amendment to Agreement for Professional Services - Barr 8-14-13.doc

resourceful. naturally.
engineering and environmental consultants

BARR

August 15, 2014

Mr. Ross Lovely and Ms. Heidi Timm-Bijold
Duluth Economic Development Authority
City Hall, Room 402
411 West First Street
Duluth, MN 55802

Re: 2014-2015 Proposed Atlas Barr Project Budget – Revised 8/15/2014
Atlas Industrial Park
Duluth, Minnesota

Dear Mr. Lovely and Ms. Timm-Bijold:

This letter outlines the proposed scope and estimated budget for currently proposed projects and tasks at the Atlas Industrial Park (Site) retroactive to May 1, 2014 and running through September 2015. We understand the following scopes and budgets are between the Duluth Economic Development Authority (DEDA) and Barr Engineering Company (Barr).

This cost estimate has been prepared on the basis of Barr's experience, qualifications and knowledge of the Atlas site and our current understanding of the proposed project scope. The cost estimate is based on the project-related information available at the time of this communication. The following project scopes and associated budgets reflect the activities requested by DEDA in recent discussions. Barr will bill its services on a time and materials basis in accordance with its current year fee schedule (our 2014 schedule is attached). In the event that the actual costs are not in-line with the estimated costs, Barr will communicate this to you before exceeding the estimated budget. Since we have no control over the cost of labor, materials, equipment or services furnished by others, or over a contractor's methods of determining prices, or over competitive bidding or market conditions, Barr cannot and does not guarantee that proposals, bids, or actual costs of subcontractors will not vary from this cost estimate.

1. Implementation Reporting and Institutional Controls, $11,000

Projected costs for regulatory agency implementation reporting on work completed in 2014 and 2015.

2. Eastern Stormwater Pond, $62,500

The initial cost estimate and assumptions for this work was submitted to DEDA on April 18, 2014 (attached). Further detail about the scope, budget, and assumptions is provided in the attachment. Associated project tasks and costs include:

- Task 1 Project Planning, Meetings, Document Preparation, and Site Investigation Field Work- $22,000
- Task 2 Stormwater Pond Design Assistance - $5,000
- Task 3 Field Work - Army Construction Oversight - $35,500

3. Stormwater pH Monitoring - $21,000

Projected 2014-2015 stormwater pH monitoring project tasks and costs include time and equipment for: revisions to the 2014 Atlas Site pH monitoring plan; periodic status checks in the spring to determine the Site snow conditions to identify when monitoring should begin; up to twenty-four (24) half-day stormwater monitoring events and follow-up Client communications; and, site stormwater pH data tracking. The assumed tasks and approximate associated costs are as follows:

- Task 1 Site monitoring planning and spring Site snow status checks - $2,000
- Task 2 Site pH monitoring. Up to 24 monitoring events at designated Site locations at $750 per event for time and equipment. This Task will also cover time for data tracking and client communications - $19,000

4. CO2 Bubble Hose Stormwater Treatment - $8,700

A cost estimate with task assumptions for the installation of a CO2 bubble hose in the Site central stormwater pond and a single treatment event was submitted to DEDA on May 7, 2014 (attached). These actions may be taken to treat Site water with elevated pH levels and to better understand the effectiveness of CO2 treatment in a larger scale field setting. Project tasks include:

- Task 1 Initial system installation time and materials - $3,300
- Task 2 System operation time and materials, per occurrence (3 x assumed) - $5,400

5. Stormwater pH Treatment Assistance - $10,470

Barr is currently working with the City and DEDA to identify high pH stormwater treatment alternatives at the Site. The exact scope and budget will depend on these ongoing discussions and directions from DEDA. Tasks that may include review of pH treatment alternatives and techniques, potential field testing, and cost estimating.

Budget

The estimated budget for completion of the described work is as follows:

1 – Implementation Reporting and Institutional Controls	**$11,000**
2 – Eastern Stormwater Pond Investigation, Design Assistance, and Construction Oversight	**$62,500**
3 – Stormwater pH Monitoring	**$21,000**

4 – CO2 Bubble Hose Stormwater Treatment	**$8,700**
5 – Stormwater pH Treatment Assistance	**$10,470**
Budget Estimate Total:	**$113,670**

The estimated Barr budget for the above scope of work is **$113,670.** Please note that in our experience, individual task and subtask budgets are estimates and the specific allotment or break-out of budget between tasks and subtasks may vary from the estimated amounts. As noted above we will provide on-going status reports regarding scope and budget during the project implementation. As the project evolves it will be important to remain in close communication with Barr regarding our progress reporting regarding actual field conditions and anticipated costs. Because of the uncertainties, it is likely that we will need to seek your direction at frequent intervals, on choices regarding scope, schedule or budget as the project progresses.

This scope of work and your authorization of the scope will remain in effect for the duration of the services unless earlier terminated by either you or us. The estimated schedule for the services is upon a signed contract date through September 31, 2015. We will inform you of our progress by regular email or phone conversations.

We understand you have the authority to direct us. We will direct communications to you at the address on this letter. Direction should be provided to me at the letterhead address.

If this proposed scope and budget is satisfactory, please provide a work authorization approving the proposed scope and budget. If you have any questions of comments, please feel free to contact me at (218) 529-8234 or by email at edott@barr.com or contact Sheryl Filby Williams at (218) 529-8211.

Sincerely yours,

Eric R. Dott

Eric Dott, P.G.
Vice President
Barr Engineering Co.

Enclosures:

2014 Barr Fee Schedule

2014 Barr Equipment Rate Schedule

Above Referenced Cost Estimates and Proposals:

- Scope for Eastern Storm Pond Environmental Investigation and Construction Oversight (4/18/2014)
- Proposal to Install and Operate Temporary Carbon Dioxide Treatment System (bubble hose) (5/7/2014)

BARR

Fee Schedule—2014

Rev. 01/01/14

Description	Rate* (U.S. dollars)
Principal	$120-230
Consultant/Advisor	$155-220
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	$95-170
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.

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
	(U.S. dollars)	

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

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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 or GA-90 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

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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	27.50	Hour
Geomos Software – Total Station Control	75.00	Day
Tablet Computer	15.00	Day
Vista Data Vision Software – Data Present	100.00	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
Concrete Test Hammer	40.50	Day
DL Plus Ultrasonic Kit (37DL, 36DL, 26XTDL)	62.00	Day
Dual-Mass Dynamic Cone Penetrometer	50.00	Day
Dye Penetrant Kit	22.00	Day

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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
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 Device (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_2S 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
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_2S Meter (I.S.C. T40)	27.00	Day
Half-Face Respirator	6.00	Day

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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	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
Vehicles and Trailers		
4WD All-Terrain Vehicle	89.50	Day
Air Sampling Trailer	100.00	Day
Heavy Trailer Towing Mileage (in addition to vehicle mileage at IRS rate)	0.25	Mile
Utility Trailer	35.00	Day
Vehicle – 2WD Field	50.00	Day
Vehicle – 4WD Field	65.00	Day
Vehicle – Cube Truck	80.00	Day
Vehicle – Personal (c)	50.00	Day
Vehicle – Utility (b.)	35.00	Day
Vehicle Mileage (company and personal)	IRS Rate	

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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	35.00	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	34.00	Pair
Roll Flagging (150')	2.25	Each
Saranex Tyvek Coverall	19.00	Each
Snap Top Sediment Container (8 oz.)	0.70	Each
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

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description **(U.S. dollars)**

	Rate	Unit
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/SO_2 Cal Gases (set), CO Cal Gases (set), CO_2/O_2 Cal Gas (set of 2), SO_2 Cal Gas (set of 2), C3 Regulator Set, NO_X/SO_2 Regulators (set of 2), and $CO/CO_2/O_2$ Regulators (set of 2)
b.) Vehicles older than 1997.
c.) Employee personal vehicles subjected to field, off-site, transport or other severe duty.

resourceful. naturally.
engineering and environmental consultants

BARR

April 18, 2014

Mr. Ross Lovely
Duluth Economic Development Authority
City Hall, Room 402
411 West First Street
Duluth, MN 55802

Re: Scope for Eastern Storm Pond Environmental Investigation and Construction Oversight - 2014
Atlas Industrial Park
Duluth, Minnesota

Dear Mr. Lovely:

Thank you for retaining us to conduct work on the Atlas Industrial Park eastern storm pond environmental investigation and construction oversight project. We understand the following scope and budget are between the Duluth Economic Development Authority (DEDA) and Barr Engineering Company (Barr).

This cost estimate has been prepared on the basis of Barr's experience, qualifications and knowledge of the Atlas site and our understanding of the proposed project scope. The cost estimate is based on the project-related information available at the time of this communication. The following scope and associated budgets reflect the activities requested by DEDA in recent discussions. Barr will bill its services on a time and materials basis in accordance with its current fee schedule (attached). In the event that the actual costs are not in-line with the estimated costs, Barr will communicate this to you before exceeding the estimated budget. Since we have no control over the cost of labor, materials, equipment or services furnished by others, or over a contractor's methods of determining prices, or over competitive bidding or market conditions, Barr cannot and does not guarantee that proposals, bids, or actual costs of subcontractors will not vary from this cost estimate.

1. Task 1 Regulatory required pre-work documentation and communication, $10,000

Barr will communicate with DEDA personnel and other involved parties to develop project objectives and tasks. This task includes three meetings with involved parties. Barr will review, update, and utilize the existing site documentation, when feasible, and draft new project-specific documents that are required. New or revised documents to be prepared include:

- EPA-required Sampling and Analysis Plan (SAP) preparation.
- MPCA-required VRAP Amendment preparation and submittal.
- MPCA- required SWPP preparation and submittal (may utilize parts of previous plans).
- OSHA-required Project Health and Safety Plan (PHASP) work review and update.

It is assumed that the EPA will not request significant changes to the SAP after it is submitted and that the MPCA will not request significant changes to the VRAP Amendment after it is submitted and that no more than two hours of effort will be required to finalize each document.

Additional activities that are also part of this task include: updates to the EPA (as required for grant reimbursement); subcontractor bid requests, contracting, or preparation of environmental reference information or specifications for use by potential work partners of DEDA.

2. Task 2 Stormwater Pond Design Planning Assistance, $10,000

Barr will provide environmental information and environmental requirements in support of DEDA and City of Duluth engineering and design work, as well as engineering support for new eastern Storm Ponds. The City's engineering staff will be completing the design work, however Barr will assist where requested. It is assumed that the City's engineer will be the registered PE on the project and will sign the design plans. Barr's role is to support the effort with information resources on environmental site requirements, materials for the project, options for methods of construction as related to the site's environmental conditions, and environmental-related documentation to support Agency approvals and reviews of the proposed design and plan for the stormwater pond development. This is a placeholder cost, at this time we do not know how much assistance the City will require. If we become aware that the scope required will exceed the listed budget, we will communicate with DEDA at that time.

3. Task 3 Field Work – Site Investigation, $12,000

The purpose of the site investigation is to collect analytical soil data to determine whether contaminated soil is present in the footprint of the proposed eastern stormwater ponds. For planning purposes, we assume that a push-probe (Geoprobe) investigation will be performed by Barr. Project costs assume that: the investigation will take 1 day to complete; that the Geoprobe subcontractor costs will be $3,000; and that analytical soil sample laboratory costs will be $2,250. Additional days of investigation would require additional budget to perform. It is assumed that the drilling contractor and laboratory are contracted by Barr and the Barr-paid subcontractor cost will be marked-up in accordance with our standard terms.

As part of this task, a brief technical memo will be submitted to the MPCA and EPA following the completion of this work. The technical memo will include a short summary of the field work performed with tables and figures showing laboratory results and sampling locations as attachments. The technical memo will not include such elements as site history, conclusions, recommendations, or analysis of the data. It is assumed that the MPCA and EPA will not have significant changes that will need to be addressed (no more than two hours of effort to finalize) after the technical memo is submitted.

4. Task 4 Field Work – Construction Oversight, $35,500

Barr will provide environmental field observation and engineering oversight and inspections during the excavation and construction of the eastern stormwater ponds to document the implementation of the VRAP requirements under this scope of services. Since a contractor-provided schedule is not available at the time of this estimate, it is assumed that a Barr employee will be onsite providing environmental support full-time (55 hours per week) for 3 weeks along with hours for office project

management during this time and field expenses. If the primary excavation and construction activities are not anticipated to be completed in 3 weeks, Barr will communicate this change in scope and provide and updated cost for this task.

Barr's estimate does include $5,000 for a HAZWOPER-trained third party contractor to properly handle contaminated soils encountered during pond excavation activities, if applicable. However, this is a placeholder cost; at this time it is unknown whether contaminated soils will need to be excavated and if so, in what quantity or for what cost. Barr will work with DEDA to identify appropriate contaminated soil management strategies, which may include off-site disposal or capping. It is assumed that the contaminated soil contractor will be contracted by Barr.

In addition, the following activities and expenses are included in this task: clean fill analytical confirmation sampling ($350 for laboratory cost and shipping); final stormwater pond surface analytical confirmation soil sampling ($500 for laboratory costs and shipping). It is assumed that the laboratory will be contracted by Barr.

As part of this task, a brief technical memo will be submitted to the MPCA and EPA following the completion of this work. The technical memo will include a short summary of the field work performed with tables and figures showing laboratory results and sampling locations as attachments. The technical memo will not include such elements as site history, conclusions, recommendations, or analysis of the data. It is assumed that the MPCA and EPA will not have significant changes that will need to be addressed (no more than two hours of effort to finalize) after the technical memo is submitted.

5. Task 5 MPCA VIC costs, $5,000

This task exists as a placeholder for MPCA VIC program costs that will be billed directly to the City of Duluth. The City or DEDA should plan to budget for this cost as the VIC program staff will incur costs related to their reviews and meeting time spent in accordance with your VIC agreement with the MPCA.

Budget

The estimated budget for completion of the described work is as follows:

Task 1 – Project Planning, Meetings and Document Preparation	**$10,000**
Task 2 – Stormwater Pond Design Planning Assistance	**$10,000**
Task 3 – Field Work – Site Investigation	**$12,000**
Task 4 – Field Work – Construction Oversight	**$35,500**
Task 5 – MPCA VIC Costs	**$5,000***
Budget Estimate Total:	**$72,500**

*[*this budget line item is not a Barr cost, it will be billed directly to the City]*

The estimated Barr budget for the above scope of work is approximately **$72,500**. Please note that in our experience, individual task and subtask budgets are estimates and the specific allotment or break-out of budget between tasks and subtasks may vary from the estimated amounts. As noted above we will provide on-going status reports regarding scope and budget during the project implementation. As the project evolves it will be important to remain in close communication with Barr regarding our progress reporting regarding actual field conditions and anticipated costs. Because of the uncertainties, it is likely that we will need to seek your direction at frequent intervals, on choices regarding scope, schedule or budget as the project progresses.

This scope of work and your authorization of the scope will remain in effect for the duration of the services unless earlier terminated by either you or us. The estimated schedule for the services is upon a signed contract date through December 31, 2014. We will inform you of our progress by regular email or phone conversations.

We understand you have the authority to direct us. We will direct communications to you at the address on this letter. Direction should be provided to me at the letterhead address.

If this proposed scope and budget is satisfactory, please provide a work authorization approving the proposed scope and budget. If you have any questions of comments, please feel free to contact me at (218) 529-8234 or by email at edott@barr.com or contact Sheryl Filby Williams at (218) 529-8211.

Sincerely yours,

Eric R. Dott

Eric Dott, P.G.
Vice President
Barr Engineering Co.

Enclosures:
2014 Barr Fee Schedule
2014 Barr Equipment Rate Schedule

BARR

Fee Schedule—2014

Rev. 01/01/14

Description	Rate* (U.S. dollars)
Principal	$120-230
Consultant/Advisor	$155-220
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	$95-170
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.

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
	(U.S. dollars)	

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

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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 or GA-90 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

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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	27.50	Hour
Geomos Software – Total Station Control	75.00	Day
Tablet Computer	15.00	Day
Vista Data Vision Software – Data Present	100.00	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
Concrete Test Hammer	40.50	Day
DL Plus Ultrasonic Kit (37DL, 36DL, 26XTDL)	62.00	Day
Dual-Mass Dynamic Cone Penetrometer	50.00	Day
Dye Penetrant Kit	22.00	Day

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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
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 Device (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_2S 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
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_2S Meter (I.S.C. T40)	27.00	Day
Half-Face Respirator	6.00	Day

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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	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
Vehicles and Trailers		
4WD All-Terrain Vehicle	89.50	Day
Air Sampling Trailer	100.00	Day
Heavy Trailer Towing Mileage (in addition to vehicle mileage at IRS rate)	0.25	Mile
Utility Trailer	35.00	Day
Vehicle – 2WD Field	50.00	Day
Vehicle – 4WD Field	65.00	Day
Vehicle – Cube Truck	80.00	Day
Vehicle – Personal (c)	50.00	Day
Vehicle – Utility (b.)	35.00	Day
Vehicle Mileage (company and personal)	IRS Rate	

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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	35.00	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	34.00	Pair
Roll Flagging (150')	2.25	Each
Saranex Tyvek Coverall	19.00	Each
Snap Top Sediment Container (8 oz.)	0.70	Each
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

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description **(U.S. dollars)**

	Rate	Unit
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/SO_2 Cal Gases (set), CO Cal Gases (set), CO_2/O_2 Cal Gas (set of 2), SO_2 Cal Gas (set of 2), C3 Regulator Set, NO_X/SO_2 Regulators (set of 2), and $CO/CO_2/O_2$ Regulators (set of 2)
b.) Vehicles older than 1997.
c.) Employee personal vehicles subjected to field, off-site, transport or other severe duty.

resourceful. naturally.
engineering and environmental consultants

BARR

To:	Heidi Timm-Bijold and Ross Lovely
From:	Eric Dott and Sheryl Filby Williams
Subject:	Proposal to Install and Operate Temporary Carbon Dioxide Treatment System at Atlas Industrial Park
Date:	May 7, 2014
Project:	23691160.04

Based on previous discussions, this proposal covers purchase, installation and operation of a carbon dioxide injection system intended to lower the pH of water in the Atlas central stormwater pond at the Atlas Industrial Park site (Site). The apparent source of the elevated pH water is flow from buried historical utility pipes that is being intercepted by a ditch along the west side of Nick Glumac Drive.

Several alternatives for treating elevated pH surface water at the Site have been identified and compared in a matrix as presented most recently in the bench test memorandum dated April 14, 2014. The approach covered by this proposal has been shown to have relatively low initial cost and high feasibility, including the ability to deploy the system on short notice. It is, however, a temporary system, requiring manual set up, take down and some oversight each day that it is used.

The proposed approach consists of laying a system of specialized bubbler hoses across the bottom of the central stormwater pond and forcing carbon dioxide (CO_2) through the hoses using compressed CO_2 tanks. Based on bench-scale testing conducted by Barr, injecting CO_2 into Site water effectively reduces the pH levels.

The project costs identified with the following tasks were projected using approximate equipment prices that were researched in the last six months. Barr will bill for our time and expenses in accordance with our current rate and fee schedules attached.

Scope

Task 1: Purchase and Installation

Installation costs involve the bubble system equipment costs other than CO_2 (included in Task 2) and Barr time and expenses to purchase remaining parts, assemble, and install the system on Site. The majority of this task will be completed by a Barr technician with oversight and assistance from Barr engineering staff and other project staff as required.

Task 2: Operation

As mentioned above, the proposed approach consists of laying a system of specialized bubbler hoses across the bottom of the central stormwater pond and forcing carbon dioxide (CO_2) through the hoses using compressed CO_2 tanks. Barr proposes to leave the bubbler hoses in the pond and transport out-of-water equipment to and from the site as needed. Based on bench-scale tests, it was determined that to effectively treat the central stormwater pond, assuming a starting pH of 11.8, up to 400 pounds of CO_2 may need to be injected over two days. The actual amount of CO_2 and the duration of system operation may vary. The system will be shut off early if the desired pH results are achieved before the end of the

second day (i.e. less than 8.5). If the desired pH results are not achieved before the end of the second day, DEDA will be notified and Barr will manage the system as instructed. This cost estimate accounts for the approximate CO_2 costs ($250) and Barr time and expenses to be onsite three times per day (morning, noon, evening) for system set-up and monitoring for two consecutive eight-hour days. Barr will install and remove out-of-water system equipment daily for security purposes unless directed to do otherwise by DEDA.

Schedule

We anticipate that we can begin our work on this project immediately upon receiving your notification to proceed. The CO_2 bubbler system installation will begin within 48 hours of receipt of a verbal or written request from you. Installation will begin even earlier if Barr staff time allows and conditions warrant immediate action.

Operating a CO_2 bubbler system on a temporary basis has limitations. Based on the results of the bench scale test, this system will lower the pH in the water in the pond at the time of treatment. However, it would not address the source of the elevated pH water or its conduit to the ground surface. Therefore the pH of the central stormwater pond could rise again as more water is added, necessitating repeated deployment of the proposed temporary CO_2 system.

Projected Costs

Services on this project will be provided at the request of the client and will be charged on a time and expense basis, as outlined below:

Project Tasks	Projected Cost
Task 1: Installation ($2,600 labor, $700 equipment)*	$3,300
Task 2: System Operation (2-day), per occurrence ($1,400 labor, $400 equipment)	$1,800
Total proposed costs:	**$5,100**

**The bubble tubing ($700) has already been purchased by Barr and billed to DEDA and has not been included in this projected cost.*

The proposed project budget is based on the following assumptions:

- Required equipment, other than bubble tubing, required to operate the proposed system is readily available at local stores and vendors.
- In the event that additional pH treatment events are required, the estimated cost for each subsequent event is $1,800 for additional CO_2 tanks and Barr labor and equipment (as shown above in Task 2).

We appreciate the opportunity to offer our services for this project. We look forward to continuing to work with you. If you have any questions or would like any additional information, please call Sheryl at 218-529-8211 or me at 218-529-8234.

Sincerely,

Eric R. Dott

Eric Dott, PG

Vice President

enclosures:

Barr Fee Schedule – 2014

Barr Rental Equipment Rate Sheet - 2014

BARR

Fee Schedule—2014

Rev. 01/01/14

Description	Rate* (U.S. dollars)
Principal	$120-230
Consultant/Advisor	$155-220
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	$95-170
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.

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
	(U.S. dollars)	

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

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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 or GA-90 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

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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	27.50	Hour
Geomos Software – Total Station Control	75.00	Day
Tablet Computer	15.00	Day
Vista Data Vision Software – Data Present	100.00	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
Concrete Test Hammer	40.50	Day
DL Plus Ultrasonic Kit (37DL, 36DL, 26XTDL)	62.00	Day
Dual-Mass Dynamic Cone Penetrometer	50.00	Day
Dye Penetrant Kit	22.00	Day

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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
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 Device (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_2S 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
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_2S Meter (I.S.C. T40)	27.00	Day
Half-Face Respirator	6.00	Day

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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	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
Vehicles and Trailers		
4WD All-Terrain Vehicle	89.50	Day
Air Sampling Trailer	100.00	Day
Heavy Trailer Towing Mileage (in addition to vehicle mileage at IRS rate)	0.25	Mile
Utility Trailer	35.00	Day
Vehicle – 2WD Field	50.00	Day
Vehicle – 4WD Field	65.00	Day
Vehicle – Cube Truck	80.00	Day
Vehicle – Personal (c)	50.00	Day
Vehicle – Utility (b.)	35.00	Day
Vehicle Mileage (company and personal)	IRS Rate	

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description	Rate	Unit
		(U.S. dollars)
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	35.00	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	34.00	Pair
Roll Flagging (150')	2.25	Each
Saranex Tyvek Coverall	19.00	Each
Snap Top Sediment Container (8 oz.)	0.70	Each
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

BARR

Rental Equipment Rate Schedule—2014

(Alphabetized)
(see general and end notes)

Description **(U.S. dollars)**

	Rate	Unit
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/SO_2 Cal Gases (set), CO Cal Gases (set), CO_2/O_2 Cal Gas (set of 2), SO_2 Cal Gas (set of 2), C3 Regulator Set, NO_X/SO_2 Regulators (set of 2), and $CO/CO_2/O_2$ Regulators (set of 2)
b.) Vehicles older than 1997.
c.) Employee personal vehicles subjected to field, off-site, transport or other severe duty.