

Minutes of Meeting
Souris River Joint Water Resource Board
Thursday, January 14th, 2016
Minot City Auditorium, Minot, ND

A regular meeting of the Board of Directors of the Souris River Joint Water Resource Board was called to order by Chairman David Ashley on Thursday, January 14th, 2016 in the Community Room of the Minot City Auditorium in Minot, ND. Joint Board members attending the meeting were David Ashley, Roger Sauer, Tom Klein, Cliff Issendorf, and Dan Jonasson. A quorum was declared. Others in attendance are listed on Attachment A.

The Board reviewed the agenda. David Ashley stated that an additional item would be the rate fee schedule for engineering consultants for 2016. There being no further additions, it was moved by Cliff Issendorf, seconded by Roger Sauer, that the agenda be approved with the addition. The motion was unanimously approved.

The Board reviewed the minutes of the December 10th, 2015 Joint Board meeting. After review it was moved by Roger Sauer, seconded by Cliff Issendorf, that the December 10th, 2015 minutes be approved. The motion was unanimously approved.

The Board reviewed and approved invoices as follows:

1. It was moved by Dan Jonasson, seconded by Roger Sauer, that the invoice from Barr Engineering for Environmental and Design in the amount of \$464,896.79 be approved. The motion was unanimously approved by roll call vote.
2. It was moved by Dan Jonasson, seconded by Roger Sauer, that the invoice from Houston Engineering for Environmental and Design in the amount of \$318,893.91 be approved. The motion was unanimously approved by roll call vote.
3. It was moved by Roger Sauer, seconded by Tom Klein, that the invoice from Ackerman-Estvold for Administrative Services in the amount of \$3,196.56 be approved. The motion was unanimously approved by roll call vote.
4. It was moved by Dan Jonasson, seconded by Roger Sauer, that the invoice from Dwyer Law Office for Legal Services in the amount of \$9,609.93 be approved. The motion was unanimously approved by roll call vote.

Mike Dwyer stated that the 2015 financial report had been emailed to the board members. A copy of the 2015 financial reports is Attachment B.

The Board reviewed the proposal to approve the City of Burlington's purchase of two residential lots for the Mouse River Enhanced Flood Protection Project, for a total amount not to exceed \$57,800, and to authorize a cost share request to the State Water Commission for this purchase. Cliff Issendorf inquired whether the new levee alignment placed the Burlington Sports Complex on the dry or wet side of the new levee. Ryan Ackerman indicated that it would be on the wet side of the new levee alignment. Dan Jonasson inquired whether the lot values were based on an appraisal. He also inquired whether the proposed acquisition was in compliance with the State Water Commission requirements for cost

sharing. Ryan Ackerman indicated that the City of Burlington had adopted an acquisition plan, and had also adopted the Mouse River Enhanced Flood Protection Project plan, to meet the State Water Commission requirements. After further discussion, it was moved by Roger Sauer, seconded by Tom Klein, that the Souris River Joint Board approve the City of Burlington's purchase of two residential lots for the Mouse River Enhanced Flood Protection Project, at \$24,900 each, with additional estimated costs of \$4,000 for each lot for ancillary costs, including appraisals, title work, legal, and related items, for a total amount of \$57,800. The motion included authorizing a cost share request to the State Water Commission on a 75% state/25% local cost share, and also on the condition that a memorandum of understanding between the Joint Board and City of Burlington would be executed. The motion was unanimously approved by roll call vote.

The Board reviewed the final STARR program document. Ryan Ackerman reported that the document had been reviewed by legal staff and recommended changes had been incorporated into the document. He further stated that there would be a meeting on January 22nd at 1 o'clock p.m. with the State Water Commission to seek State Water Commission approval of the STARR program proposal. After discussion, it was moved by Clif Issendorf, seconded by Dan Jonasson, that the Joint Board approve and adopt the STARR Program document dated January 1, 2016. The motion was unanimously approved by roll call vote.

Jerry Bentz provided an update on the engineering status of Phase I of the Mouse River Enhanced Flood Control Project. Jason Westbrook provided an update on the engineering status of Phases II & III of the Mouse River Enhanced Flood Control Project, including the status of the environmental impact statement.

The Joint Board considered the proposed amendment No. 1 to the contract between the Souris River Joint Board and Barr Engineering. The proposed amendment is Attachment C, and provides for an additional \$1,645,000 for additional work not included in the original scope of the contract. Jason Westbrook explained that the original contract was signed 14 months ago and did not envision the 83 bypass, regulatory challenges, bridge relocation, and other items. After discussion, it was moved by Dan Jonasson, seconded by Tom Klein, that the proposed amendment No. 1 to owner engineer agreement be approved, and that a cost share request be submitted to the State Water Commission for the additional costs of the contract amendment. The motion was unanimously approved by roll call vote.

The Joint Board considered fee schedules for Barr Engineering, Houston Engineering, and Ackerman-Estvold. It was moved by Roger Sauer, seconded by Dan Jonasson, that the 2016 fee schedule for Barr Engineering be approved. The proposed fee schedule is attachment D. The motion was unanimously approved. It was moved by Dan Jonasson, seconded by Roger Sauer, that the 2016 Western North Dakota fee schedule for Houston Engineering be approved. The Houston Engineering fee schedule is attachment E. The motion was unanimously approved. It was moved by Dan Jonasson, seconded by Tom Klein that the 2016 rate schedule for Ackerman-Estvold be approved. The Ackerman-Estvold rate schedule is Attachment F. The motion was unanimously approved.

Abbi Dorn provided an update of the system-wide improvement framework (SWIF) for the existing flood protection project from Burlington through Minot. Abbi Dorn reported that comments must be received by January 31st so that a 90% submittal to the Corps of Engineers could be provided. Dan Jonasson inquired whether SWIF was included on the Souris River Joint Board website, and whether the Sawyer levee was included in SWIF. Dorn replied the Sawyer levee was not included in SWIF.

The Board reviewed the 2016 meeting schedule. Ryan Ackerman reviewed the memorandum from attorney Jack Dwyer concerning compliance with open meetings and records. Ryan Ackerman indicated that a hard copy of meeting materials would be provided to the Joint Board prior to meetings, and an electronic version of the agenda would be placed on the website. Cindy Hemphill inquired about placing materials for the meeting on the website. Attorney Dwyer indicated it would be appropriate to include meeting materials in draft form on the website prior to meetings. The Board requested this be done. The meeting schedule calls for the board to meet at 4 p.m. on the 2nd Thursday of each month. The July and December meetings will have a conflict with summer and annual water meetings, and may be adjusted.

The Board addressed the utility relocation policy. Ron Abele from SRT made a presentation to the Board asking the board to reconsider the cost share percentage that utilities are required to relocate if they are located in public right away for the Mouse River Flood Control Project. Dan Jonasson inquired whether SRT had a recommended percentage. SRT responded they would like to see 60% of the relocation costs paid for by the project. Jerry Bentz indicated that the relocation costs for SRT would be about 4 million, and the total relocation costs would be in the range of 5-8 million. The board did not take action on the utility relocation policy, pending further legal review.

The Board considered the J. Clark Salyer Conveyance improvements survey. Frank Durbian from the US Fish and Wildlife Service made a presentation concerning initial options for increased conveyance of the Souris River through downstream counties and through the J. Clark Salyer National Wildlife Refuge. It was proposed that a detailed survey of the crossings of the J. Clark Salyer National Wildlife Refuge be conducted by Ackerman-Estfold, including the following:

1. Center line profiles of all roadways, railways, and damn embankment crossings.
2. Topographic and structure survey of all bridges.
3. Topographic and structure surveys of all damn structures on the refuge.
4. Cross sections to verify river bottom elevations.
5. Soil core samples to verify sedimentation depth.

After further discussion it was moved by Clif Issendorf, seconded by Roger Sauer, that Ackerman-Estfold be authorized to proceed with topographic and soil data collection on the J. Clark Salyer National Wildlife Refuge, with the work performed to be reimbursed on an hourly basis, not to exceed \$23,500. Dan Jonasson inquired whether the rural reach study provided any information for the proposal. Ryan Ackerman answered that the rural reach study was based on Lydar data and thus not duplicative of the topographic and soil data survey. The motion was unanimously approved with the understanding a proposal would be submitted to the State Water Commission for cost share for this survey.

Dan Jonasson reported on meetings with Governor Hoven, and indicated the Senator was pursuing a new start with the Corps of Engineers so that a feasibility study could be conducted by the Corps of Engineers.

Ryan Ackerman stated representatives would be meeting with Governor Dalrymple on January 20th in Minot to address cost share percentages.

Mike Dwyer reported on the efforts of the Water Coalition to develop consensus among grassroots water groups and projects concerning upcoming water funding and policy.

The board discussed at length additional appointments to the International Souris River Board of Control. It was reported that the two additional appointments would be Minot City manager Lee Staab and Ward County Commissioner Shelly Weppler. Several representatives from the audience provided testimony to the board that one of the additional appointments should have been a rural downstream representative. Representatives of the Mouse River Preservation Coalition indicated a strong desire to have a downstream representative on the International Souris River Board of Control. It was suggested that a third representative be added to the International Souris River Board of Control, representing rural interests. It was moved by Clif Issendorf seconded by Roger Sauer, to support adding a third representative on the International Souris River Board of Control from rural areas downstream of Minot, and that this issue be included in the discussion with Governor Dalrymple on January 20th. The motion was unanimously approved.

There being no further business, the meeting was adjourned.



Michael Dwyer

Job _____ Subject _____ Date _____ Checked By _____ Date _____
 Designed By _____ Scale _____

Sign In

<u>Name</u>	<u>address</u>
KING SCHMELZER	P.O. BOX 157 PARSHALL ND 58778
John Rogulien	811 56 th ST NE Towner, N.D. 58788
Richard C. Berndt	445 65 th ST NE Towner ND 58788
Lynn R Kongohi	45-54 th ST NE Towner ND 58788
Hany Bergstad	3475 7 th Ave N Voltz ND 58792
Alan Goodman	802 77 th NE Willow City ND 58384
Ron Abde	SRT Minot ND
Wade Tillema	SRT Minot, ND
Ryan Ackerman	1907 17 th ST SE Minot
Dusty Zimmerman	1907 17 th ST E Minot, ND
Roger Sauer	7675 30 th 2 Ave NW Glenburn ND
Tom Klein	SRTJB Minot
Jasa Westlake	Barre - 238 W. Century Ave W. S. ND
Clif Jesendorf	BEWRB & SRTS Board
Jerry Bents	Houston Engineering
Lee Staab	City of Minot
Frank Durbin	USFWS 681 Sulzer RD Linton, ND 58789
Shirley Sipma	920 4 th Ave NW, Minot, ND
Dan Truessa	City Minot/SRTJB
Mike Deuper	
Cindy Hemphill	
Lee Staab	

01/08/16
Accrual Basis

Souris River Joint Board
2015 Budget Report
January through December 2015

	Jan - Dec 15	Budget
Income		
4000 · Water Resource Districts		
4001 · Renville	0.00	0.00
4002 · Ward	0.00	0.00
4003 · McHenry	0.00	0.00
4004 · Bottineau	0.00	0.00
Total 4000 · Water Resource Districts	0.00	0.00
4010 · Contracts/Reimbursements		
4011 · State Water Comm. (Minot Pr...	3,761,614.97	0.00
4012 · State Water Comm. (Souris J...	135,127.84	105,000.00
4013 · State Water Comm. (NDIRF)	0.00	0.00
4014 · State Water Comm. (214)	268,500.00	0.00
4015 · State Water Comm. (Misc)	0.00	0.00
Total 4010 · Contracts/Reimbursements	4,165,242.81	105,000.00
4020 · City Cost Sharing		
4021 · Minot - Engineering	2,523,891.33	0.00
4022 · Minot (214)	89,500.00	0.00
4025 · Velva	0.00	0.00
4028 · Burlington	0.00	0.00
Total 4020 · City Cost Sharing	2,613,391.33	0.00
4040 · Mill Levies/Property Taxes		
4041 · Renville	40,000.00	30,000.00
4042 · Ward	185,698.55	200,000.00
4043 · McHenry	0.00	0.00
4044 · Bottineau	75,000.00	100,000.00
Total 4040 · Mill Levies/Property Taxes	300,698.55	330,000.00
4050 · Interest	0.00	0.00
4080 · Miscellaneous	45.00	0.00
Total Income	7,079,377.69	435,000.00
Expense		
5000 · Staff Services		
5010 · Project Manager	0.00	48,000.00
5011 · Administrative	0.00	10,000.00
Total 5000 · Staff Services	0.00	58,000.00
5100 · Consulting Services		
5110 · Legal (General)	0.00	0.00
5111 · Legal (Souris JB)	57,055.81	40,000.00
5130 · Engineering (Minot Proj.)	6,207,105.22	0.00
5131 · Admin/Engineering (Souris J...	168,687.01	65,000.00
5132 · Engineering (General)	0.00	0.00
Total 5100 · Consulting Services	6,432,848.04	105,000.00
5150 · Corps of Engineers		
5151 · 214 MOA	358,000.00	0.00
Total 5150 · Corps of Engineers	358,000.00	0.00
5200 · Office Expenses		
5205 · Postage	8.10	1,000.00

01/08/16
Accrual Basis

Souris River Joint Board
2015 Budget Report
January through December 2015

	<u>Jan - Dec 15</u>	<u>Budget</u>
5210 · Copying & Printing	19.20	2,000.00
5216 · Dues & Subscriptions	5,000.00	1,000.00
5220 · Equipment	0.00	0.00
5225 · Insurance	6,301.00	0.00
5230 · Rent	0.00	0.00
5235 · Supples	0.00	1,500.00
5240 · Telephone	30.01	0.00
5245 · Miscellaneous	0.00	500.00
Total 5200 · Office Expenses	11,358.31	6,000.00
5300 · Other Expenses		
5310 · ND Water Coalition	1,000.00	1,000.00
5311 · HUD Grant Expenses	31,182.33	
5320 · Travel	0.00	10,000.00
5330 · Meeting Expenses	0.00	5,000.00
5336 · Audit/Insurance	0.00	2,500.00
5340 · Miscellaneous	0.00	2,000.00
Total 5300 · Other Expenses	32,182.33	20,500.00
5400 · Projects		
5410 · Renville County	0.00	0.00
5420 · Ward County	0.00	0.00
5430 · McHenry County	0.00	0.00
5440 · Bottineau County	0.00	0.00
5450 · Minot	0.00	0.00
5460 · Velva	0.00	0.00
5465 · Burlington	0.00	0.00
5475 · Other	0.00	0.00
Total 5400 · Projects	0.00	0.00
Total Expense	6,834,388.68	189,500.00
Net Income	244,989.01	245,500.00

This is **EXHIBIT K**, consisting of 3 pages, referred to in and part of the **Agreement between Owner and Engineer for Professional Services** dated May 6, 2014.

AMENDMENT TO OWNER-ENGINEER AGREEMENT

Amendment No. 1

1. *Background Data:* Amendment 1 to Task Order 2 of the above-referenced agreement for work toward the planning, engineering, design and permitting of Phases 2 and 3 of the MREFPP.

- a. Effective Date of Owner-Engineer Agreement: May 6, 2014
- b. Owner: Souris River Joint Board
- c. Engineer: Barr Engineering Company
- d. Project: MREFP

2. *Description of Modifications:*

- a. Engineer shall perform or furnish the following Additional Services: *See 2b.*
- b. The Scope of Services currently authorized to be performed by Engineer in accordance with the Agreement and previous amendments, if any, is modified as follows:

Task	Original Budget	Job to Date Spent	Estimate of Additional Required	Estimate of Total Required Effort	Primary Reason	Notes
Project Coordination & Support	\$ 185,000	\$ 116,538	\$ 150,000	\$ 335,000	2016 Reauthorization	(6)
Environmental Impact Statement	\$ 652,460	\$ 254,894	\$ -	\$ 652,460	N/A	(7)
System-Wide Improvement Framework	\$ 159,800	\$ 164,549	\$ 40,000	\$ 199,800	Scope Change per USACE	
H&H Systems Analysis	\$ 757,575	\$ 583,983	\$ 140,000	\$ 897,575	Scope Change per USACE	
Interior Drainage Existing Conditions Modeling	\$ 250,000	\$ 244,174	\$ 40,000	\$ 290,000	Consulting Team Coordination	
System-Wide Utility Relocation Planning	\$ 15,000	\$ 12,790	\$ -	\$ 15,000	N/A	
Regulatory Permitting & Mitigation Planning	\$ 50,000	\$ 6,170	\$ 100,000	\$ 150,000	Consulting Team Coordination	
Section 408 Permissions	\$ 343,115	\$ 102,769	\$ -	\$ 343,115	N/A	
Project Design Guidelines	\$ 50,000	\$ 53,658	\$ 15,000	\$ 65,000	Consulting Team Coordination	
Project Design & Permitting	\$ 3,126,720	\$ 2,407,708	\$ 1,060,000	\$ 4,186,720	Project Scope Changes (See Table 2)	(2)(3)
Public Outreach	\$ 54,000	\$ 42,768	\$ 100,000	\$ 154,000	Project Website Redevelopment	
Total	\$ 5,643,670	\$ 3,990,001	\$ 1,645,000	\$ 7,288,670		

Table 2					
Notable Project Scope Changes	Estimate of Required	Notes			
Centennial Forest / Perkett Ditch Improvements	\$ 250,000				
Larger Perkett Pump Station	\$ 250,000				
NDDOT Highway 83 Bypass Coordination	\$ 85,000	(5)			
Highway 83 Bypass Embankment & Seepage Design	\$ 60,000				
Additional Geotechnical Design Due to Soil Conditions	\$ 100,000				
Design Evaluations for EIS Alternatives per USACE	\$ 50,000	(7)			
Design Evaluations for Alternatives per SRJB	\$ 20,000				
Independent Construction Packages	\$ 150,000	(2)(3)			
Right of Way Negotiations	\$ 95,000	(4)			
Total	\$ 1,060,000				
Notes:					
(1) Project management is included in the estimates above.					
(2) This is for design and bidding services only. The intent is to serve as a basis for an amendment to the current Task Order.					
(3) Construction services will be scoped at a later date and will be included in a subsequent Task Order.					
(4) Right of way negotiations includes development of MOUs with the Park District, borrow negotiations, and easement negotiations.					
(5) Highway 83 Bypass Coordination includes work to date only.					
(6) Original scope included work through 2015 only.					
(7) Scope changes have occurred as a result of USACE comments. These efforts have been completed under the Project Design & Permitting allocation.					

- c. The responsibilities of Owner are modified as follows: *No change*
- d. For the Additional Services or the modifications to services set forth above, Owner shall pay Engineer the following additional or modified compensation: *\$1,645,000.*
- e. The schedule for rendering services is modified as follows:
No change in schedule. The scope of services is through project bidding.
- f. Other portions of the Agreement (including previous amendments, if any) are modified as follows: *None.*

5. Agreement Summary (Reference only)	
a. Original Agreement amount:	<u>\$5,643,670</u>
b. Net change for prior amendments:	<u>\$0.00</u>
c. This amendment amount:	<u>\$1,645,000</u>
d. Adjusted Agreement amount:	<u>\$7,288,670</u>

The foregoing Agreement Summary is for reference only and does not alter the terms of the Agreement, including those set forth in Exhibit C.

Owner and Engineer hereby agree to modify the above-referenced Agreement as set forth in this Amendment. All provisions of the Agreement not modified by this or previous Amendments remain in effect. The Effective Date of this Amendment is January 14, 2016.

OWNER:

Dave Ashley

By: Dave Ashley

Title: Chairman

Date Signed: 1-14-2016

ENGINEER:

Jason Westbrook

By: Jason Westbrook

Title: Vice President

Date Signed: 1/14/16

Roger) ✓
Dan

Attachment D



Fee Schedule—2016

Rev. 01/01/16

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.

No-Per
Section
2.03



Rental Equipment Rate Schedule—2016
(Alphabetized)
(see general and end notes)

Rev. 01/01/16
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 Chromatograph Model 302.....	367.00	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



Rental Equipment Rate Schedule—2016
 (Alphabetized)
 (see general and end notes)

Rev. 01/01/16
 Sheet 3 of 7

Description	Rate	Unit
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
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.....	38.00	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.....	2,750.00	Month
I-Site Software.....	63.00	Hour
Metsim.....	35.00	Hour
Total Station Monitoring Package	3,750.00	Month
Vista Data Vision, Presentation Software.....	150.00	Month
Vulcan Software	50.00	Hour



Rental Equipment Rate Schedule—2016
 (Alphabetized)
 (see general and end notes)

Rev. 01/01/16
 Sheet 5 of 7

Description

(U.S. dollars)

	Rate	Unit
Safety		
Emergency Escape Breathing Apparatus (EEBD)	18.00	Day
Aerosol/Dust Monitor (PDR-1000)	67.75	Day
Automatic External Defibrillator (AED)	14.00	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
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
Helium Detector	55.00	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
Garmin GPS Receiver.....	12.00	Day
GPS Camera Kit (Ricoh 500SE)	22.00	Day
Hand Ice Auger	7.00	Day
Iron Locator	17.50	Day
iPad with R1 GPS Receiver	50.00	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



Rental Equipment Rate Schedule—2016
 (Alphabetized)
 (see general and end notes)

Rev. 01/01/16
 Sheet 7 of 7

Description	Rate	Unit
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
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
Zooplankton Bottle	1.80	Each

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

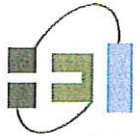
- a.) Analyzer Support Kit includes the following: Airflow Kit, Heated Sample Line (50'), Heated Sample Line (100'), Gas Conditioner, Heated Filter Box, Single Pen Recorder, Dual Pen Strip Chart, Data Logger, C3/C4 Cal Gases (set), NO_x/SO₂ Cal Gases (set), CO Cal Gases (set), CO₂/O₂ Cal Gas (set of 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—2016

Companywide
Rev. 01/01/16
Sheet 1 of 1

Description	Rate (U.S. dollars)
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)	0.50
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



HoustonEngineering Inc.

Dan Rosen - Attachment E

2016 WESTERN NORTH DAKOTA FEE SCHEDULE

Bismarck/Dickinson/Minot/Williston Regions

The following is a schedule of hourly rates and charges for engineering and surveying services offered by Houston Engineering, Inc.

Category	Hourly Rate
Senior Project Manager	\$200
Project Manager	181
Project Engineer	166
Professional Engineer	149
Design Engineer	132
Graduate Engineer	119
Legislative/Grant Specialist	\$169
Expert Witness	219
Sr. Environmental Project Manager	\$200
Senior Environmental Scientist	175
Environmental Scientist	150
Scientist	132
Graduate Scientist	119
Graduate Scientist I	98
Senior Planner	\$166
Associate Planner	120
Technical Writer	81
Sr. Land Surveyor Project Manager	\$175
Senior Land Surveyor	163
Land Surveyor	137
Graduate Land Surveyor	119
Senior Construction Engineer	\$163
Construction Engineer	137
Graduate Construction Engineer	116
Senior Technician	\$119
Technician	107
Graduate Technician	92
Technician Intern	82
Senior GIS Project Manager	\$175
GIS Project Manager	150
GIS Developer	137
GIS Specialist	119
GIS Technician/Developer II	104
GIS Technician I	88

Category	Hourly Rate
Right-of-Way Specialist	\$166
Right-of-Way Technician	99
Senior Designer	\$144
Designer	125
Surveyors:	
1-Person Crew (plus Equipment)	\$144
2-Person Crew (plus Equipment)	175
3-Person Crew (plus Equipment)	219
4-Person Crew (plus Equipment)	243
CAD Manager	\$119
CAD Supervisor	107
Senior CAD Operator	92
CAD Operator	82
Computer Technician	\$144
Senior Administrative Assistant	\$82
Administrative Assistant	74

Chargeable Expenses	Rate
Subsistence	Actual Cost
Mileage-Vehicles:	
2-Wheel Drive	IRS Standard Rate
4-Wheel Drive	IRS Standard Rate + \$0.20/Mile
GPS Equipment	\$25/hour/unit
Robotic Total Station	\$20/hour
S6 Robotic Total Station	\$40/hour
All-Terrain Vehicle/Snowmobile/Boat	\$15/hour
Long-Distance Telephone, Overnight Delivery, Postage, Printing	Actual Cost
Surveying Materials, Special Equipment, and other Materials required for the job	Actual Cost
Subconsultants	Actual Cost + 10%

2016 Rate Schedule

Labor Rates		Reimbursable Expenses	
Classification	Hourly Rate	Item	Rate
Engineer 1	\$105	Mileage	IRS Rate
Engineer 2	\$125	Photocopies	\$0.25/copy
Engineer 3	\$145	Plots	\$1.00/s.f.
Engineer 4	\$160	Outside Services *	at cost
Engineer 5	\$175	Out of Pocket Expenses **	at cost
Engineer 6	\$185		
Engineer 7	\$195		
		* Includes laboratory testing, architectural and engineering consultants, surveying, etc.	
Architect 1	\$100	** Includes telephone, postage, subsistence, technical literature, equipment rental, etc.	
Architect 2	\$125		
Architect 3	\$145		
Architect 4	\$185		
Landscape Architect 1	\$100		
Landscape Architect 2	\$125		
Landscape Architect 3	\$145		
Landscape Architect 4	\$185		
Technician 1	\$75		
Technician 2	\$90		
Technician 3	\$100		
Technician 4	\$120		
Technician 5	\$145		
Technician 6	\$175		
Administrative 1	\$70		
Administrative 2	\$85		
Administrative 3	\$120		
Administrative 4	\$140		

Dan
Tom

Notes:

- (1) Rates are subject to increase annually on January 1.
- (2) Overtime will be billed at 1.5x the listed rates for Technicians and some Administrative staff.
- (3) Regardless of hours worked, all work on Sundays or holidays acknowledged by Ackerman-Estvold shall be considered overtime if required by the client or contract.

