RECORD OF PROCEEDINGS

MINUTES OF A SPECIAL MEETING OF THE BOARD OF DIRECTORS OF THE GREATROCK NORTH WATER AND SANITATION DISTRICT HELD APRIL 28, 2016

A special meeting of the Board of Directors (referred to hereafter as "Board") of the Greatrock North Water and Sanitation District (referred to hereafter as "District") was convened on Thursday, April 28, 2016 at 5:30 P.M., at United Power, 500 Cooperative Way, Brighton, Colorado. The meeting was open to the public.

ATTENDANCE

Directors In Attendance Were:
Robert W. Fleck
John D. Wyckoff
Jeffrey Polliard
Dave Lozano

Following discussion, upon motion duly made by Director Polliard, seconded by Director Lozano and, upon vote, unanimously carried, the absence of Brian K. Rogers was excused.

Also In Attendance Were:
Lisa A. Johnson and Divena Mortimeyer (for a portion of the meeting); Special District Management Services, Inc.

Jennifer Gruber Tanaka, Esq.; White Bear Ankele Tanaka & Waldron, P.C.

Brad Simons; TZA Water Engineers

Shane Bergman; Tamarack Consulting, LLC (for a portion of the meeting)

DISCLOSURE OF POTENTIAL CONFLICTS OF INTEREST

Disclosures of Potential Conflicts of Interest: Ms. Johnson advised the Board that, pursuant to Colorado law, certain disclosures may be required prior to taking official action at the meeting. Ms. Johnson confirmed that disclosures of conflicts of interest were filed with the Secretary of State's Office and the Board at least 72 hours prior to the meeting for those Directors with potential conflicts of interest. The Board reviewed the Agenda for the meeting, following which, Directors Fleck, Polliard, Lozano, and Wyckoff each confirmed that they had no additional conflicts of interest in connection with any of the matters listed on the Agenda.

ADMINISTRATIVE MATTERS

Agenda: Ms. Johnson distributed for the Board's review and approval a proposed Agenda for the District's special meeting.

Following discussion, upon motion duly made by Director Polliard, seconded by Director Lozano and, upon vote, unanimously carried, the Agenda was approved.

Board of Directors' Report: There was nothing to report.

Manager's Report: Ms. Johnson presented and the Board reviewed the April Manager's Report. A copy of the report is attached hereto and incorporated herein by this reference.

CONSENT AGENDA

Consent Agenda: The Board considered the following actions:

- Approve Minutes of the March 1, 2016 regular meeting.
- Ratify approval of payment of claims through the period ending March 14, 2016, as follows:

General Fund	$ 23,566.81
Debt Service Fund	$ -0-
Capital Projects Fund	$ -0-
Total Claims:	**$ 23,566.81**

- Ratify approval of payment of claims through the period ending April 11, 2016, as follows:

General Fund	$ 37.527.06
Debt Service Fund	$ -0-
Capital Projects Fund	$ 289.16
Total Claims:	**$ 37,816.22**

- Review operations and maintenance update and monthly work orders
- Review monthly water quality report
- Review monthly water meter installations
- Ratify approval of an Independent Contractor Agreement with Tamarack Consulting, LLC for GIS Services

Following discussion, upon motion duly made by Director Fleck, seconded by Director Polliard and, upon vote, unanimously carried, the Board approved the consent agenda items.

FINANCIAL MATTERS

Xpress Bill Pay Presentation: Ms. Mortimeyer presented a web-based online bill payment system that allows customers to pay their water bills online using credit cards, debit cards, or electronic funds transfer using a checking or savings account. Xpress Bill pay also offers a lockbox service for processing payments received via check or money order. The fees associated with the transactions would be paid by the District.

Attorney Tanaka noted that she has reviewed the contract and provided revisions for inclusion to Xpress Bill Pay. Xpress Bill Pay accepted all of her requested revisions with the exception of the State which would govern the agreement should there be any contractual disputes. Attorney Tanaka asked that the laws in Colorado govern the contract. Xpress Bill Pay explained that they have over 390 clients in more than 28 states and therefore require the venue to be Utah.

The Board reviewed and discussed the information and determined the risk was low given the services provided.

Following discussion, upon motion duly made by Director Fleck, seconded by Director Polliard and, upon vote, unanimously carried, the Board approved an agreement with Xpress Bill Pay accepting the State of Utah as the venue for any contractual disputes.

March 31, 2016 Unaudited Financial Statements: Ms. Johnson presented and the Board reviewed the March 31, 2016 unaudited financial statements and schedule of cash position.

Following discussion, upon motion duly made by Director Wyckoff, seconded by Director Polliard and, upon vote, unanimously carried, the Board accepted the cash position schedule and unaudited financial statements through the period ending March 31, 2016.

WATER MATTERS

Pending Water Court Cases: There was nothing new to report.

ENGINEER'S REPORT

Engineer's Report: Mr. Simons presented the Engineer's Report to the Board. A copy of the report is attached hereto and is incorporated herein by this reference.

Concentrate Management: Mr. Simons discussed the current water level of the ponds. It was determined to reduce the Reverse Osmosis operation time from 6 hours per day to 4 hours per day effective April 29, 2016.

Greatrock North Pump Station Project Bid Summary: Mr. Simons presented the bid summary related to the Greatrock North pump station project. A copy of the summary is attached hereto and incorporated herein by this reference.

Mr. Simons noted that the bids came in about 30% higher than he expected.

He discussed other alternatives to upgrade the pump station:

Alternative #1 – Replacing the existing pumps with like pumps with higher efficiency than the existing pumps. His rough estimate for this alternative is $162,500.

Alternative #2 – Remove the below grade tank and replace with an above grade steel tank and pump station. Estimated cost $400,000 to $500,000.

Alternative #3 – Discuss with low bidder if there is an opportunity to reduce costs any way.

Alternative #4 – Add 8 feet of concrete tank to the existing tank and replace pumps with a similar pump configuration as Rocking Horse Farms pump station.

Mr. Simons will research the alternatives and provide a report back to the Board at a special meeting if necessary or at the June Board meeting.

OPERATONS/ MAINTENANCE MATTERS

GIS Mapping: Mr. Shane Bergman with Tamarack Consulting, LLC gave a presentation on the GIS services prepared to date.

Hand Held Data Collection Device: The Board reviewed the cost to purchase a hand held GIS data collection device. Mr. Bergman recommends purchasing the Trimble R1 GNNS receiver at a cost of $2600.

Following discussion, upon motion duly made by Director Polliard, seconded by Director Wyckoff and, upon vote, with Directors Polliard, Wyckoff and Lozano voting yes and President Fleck voting no, the Board approved the purchase of the Trimble R1 GNNS receiver at a cost of $2600.

Water Storage Tank Cleaning and Inspection Services: The Board reviewed two proposals for water storage cleaning and inspection services. Inland Potable Services, Inc. proposed to complete the cleaning and inspection of four tanks for $5,500. Marine Diving Solutions proposed to complete the same services for $7,485. In addition to the costs associated with the services proposed, there will be additional costs to have the District's Operator in Responsible Charge on site during the services to monitor and address erosion issues with the contractor.

Following discussion, upon motion duly made by Director Wyckoff, seconded by Director Polliard and, upon vote, unanimously carried, the Board approved the proposal from Inland Potable Services, Inc. in the amount of $5,500 and directed Attorney Tanaka to draft an Independent Contractor Agreement.

RECORD OF PROCEEDINGS

LEGAL MATTERS

Legal Matters: There were no legal matters to discuss.

OTHER BUSINESS

Other Business: President Fleck asked the Board their thoughts on possibly hiring a larger engineering firm such as CH2M Hill to assist the District with their concentrate issues. The Board discussed the suggestion and determined not to take action at this time.

COMMUNITY COMMENTS

Community Comments: There were no community comments.

ADJOURNMENT

There being no further business to come before the Board at this time, upon motion duly made, seconded and, upon vote, unanimously carried, the meeting was adjourned.

Respectfully submitted,

By _____
Secretary for the Meeting

THESE MINUTES APPROVED AS THE OFFICIAL APRIL 28, 2016 MINUTES OF THE GREATROCK NORTH WATER AND SANITATION DISTRICT BY THE BOARD OF DIRECTORS SIGNING BELOW:

_____
Robert William Fleck

_____
Jeffrey L. Polliard

_____
Brian K. Rogers

_____
John D. Wyckoff

_____
Dave Lozano

GREATROCK NORTH
WATER & SANITATION DISTRICT

Date: April 21, 2016

To: Greatrock North Water and Sanitation District, Board of Directors

From: Lisa A. Johnson, District Manager

Re: April 28, 2016 Manager's Report

Agenda Action Items

II.A. Consent Agenda

1. Review and approve the Minutes of the March 1, 2016 regular meeting.
2. Ratify the approval of the claims for March and April 2016.
3. Operations and Maintenance update and monthly work orders.
4. Review monthly water quality report.
5. Review monthly water meter installations.
6. Ratify approval of ICA with Tamarack Consulting, LLC for GIS Services.

I recommend approval of the consent agenda items.

III.A. Xpress Bill Pay Presentation

Ms. Mortimeyer will attend the board meeting to present an online bill pay and lockbox processing service to the Board to enhance our current billing services to our customers.

III.B. March 31, 2016 Financial Statements

I will present the March 31, 2016 unaudited financial statements to the Board at the meeting.

I recommend acceptance of the March 31, 2016 unaudited financial statements.

VI.A.1 Hand Held Data Collection Device

Director Wyckoff, Mr. Simons and I met with Shane Bergman of Tamarack Consulting, LLC to discuss Phase 1 GIS services. At the meeting, Director Wyckoff requested cost options to purchase a hand held data collection device. Include in the Board packet is email correspondence between Mr. Bergman and me regarding options.

Review of monthly Water Resumes and Other Water Related Matters

Attorney Poznanovic reviewed the January resume, and did not find any cases that he thinks the District would have an interest in opposing.

Summary of Mid-Month Meeting

Directors Fleck and Wyckoff, Mr. Simons and I did not meet for a mid-month meeting in March or April.

Status of 2015 Audit

Fieldwork has been scheduled to conduct the 2015 audit and the audit is scheduled to be presented to the Board in June or July.

1st Quarter 2016 Facility Inspection

Director Wyckoff, Mr. Simons, Mr. Rabas and I met on March 28, 2016 to conduct the 1st quarter facility inspection. Topics discussed are as follows:

Miscellaneous Topics
Reviewed 3rd quarter 2015 inspection comments/issues.

Control Valves Inventory is in progress

Air Vacuum valves at BECR need to be lowered – Mr. Simons will research and prepare a plan to lower. Mr. Simons will provide dates for work and Director Wyckoff will coordinate potholing services with Redman Pothhole Services.

Well Review

Alluvial Well #2 – confirmed that is it exercised quarterly.

Treatment Review

RHF tank needs paint repairs. Mr. Simons has contacted Coblaco regarding this issue.

Storage Tank Plan is in process.

Storage tank inspections – proposals received and will be presented to the Board at April meeting.

Distribution System Review

No concerns identified at this time.

Ramey Environmental Compliance, Inc.
Management and Operation Solutions for
Water and Wastewater Treatment
303-833-5505

PO Box 99, Firestone, Colorado 80520
email: contact.us@RECinc.net
www.RECinc.net

Greatrock North W & S District
Monthly Activities
March 28th – April 18th

3/28/16: (1.64hrs) Regular checks and readings.

3/30/16: (2.77hrs) Regular checks and readings. Met with the Coblanco tech for the Rocking Horse Farms tank. Changed the oil on the tonka flow pump.

4/1/16: (1.5hrs) Regular checks and readings.

4/4/16: (2.25hrs) Regular checks and readings. Attempted locate for 16665 Electra St. – address not in District.

4/6/16: (2.10hrs) Regular checks and readings.

4/8/16: (2.95hrs) Regular checks and readings. Tested the alluvial well backup power. Completed locates at: 28285 E 160th Ave and 16580 Umpire St.

4/11/16: (1.42hrs) Regular checks and readings.

4/12/16: Completed locates at: 16458 Joppa St and 16370 Jalna Ct.

4/13/16: (3.07hrs) Regular checks and readings. Completed a locate at 16480 Tree Haven St.

4/14/16: Completed a locate at 31310 E 164th Ave.

4/15/16: (1.32hrs) Regular checks and readings.

4/18/16: (2.78hrs) Regular checks and readings. Collected monthly samples. Completed a locate at 31405 E 166th Ave.

4/19/16: Completed a locate at 16353 Rayburn St.
During the recent snow storms all three generators ran fine and fuel tanks have been topped off.

March 25th – April 18th

RO Run Time Hrs	129.90 hrs
RO Concentrate Flow – 1 pond (North)	226,026 gallons

(Available next report)

Monthly Testing	TDS(mg/L)	Calcium (mg/L)	Magnesium (mg/L)	Total Hardness(mg/L)
BE				
RHF				
GRN				

Completed Work Order List Report

4/20/2016

Completed	Equipment Number	Task	Priority	WO#	Type
3/31/2016	BOX RO system	CIP Clean in place	1	630.01	Scheduled
3/30/2016	BOX RO Pump	Change Oil Change Oil(069)	2	621.01	Scheduled
3/30/2016	BOX BP3 VFD	Clean Eqp Clean Equipment	5	627.01	Scheduled
3/30/2016	BOX BP2 VFD	Clean Eqp Clean Equipment	5	626.01	Scheduled
3/30/2016	BOX BP1 VFD	Clean Eqp Clean Equipment	5	625.01	Scheduled
3/25/2016	RHF Generator	Ck Fuel Check Fuel Level	5	634.01	Scheduled
3/25/2016	GN Generator	Ck Fuel Check Fuel Level	5	632.01	Scheduled
3/25/2016	BOX RO system	Send Pictures	2	620.01	Scheduled
3/25/2016	BOX Generator	Ck Fuel Check Fuel Level	5	629.01	Scheduled
3/17/2016	GN Generator	Annual Ser Annual Service	3	631.01	Scheduled
3/9/2016	RHF Building	TDS and Hardness	1	624.02	Scheduled
3/9/2016	GRN Pump Building	TDS and Hardness	1	624.03	Scheduled
3/9/2016	Boxelder Pump Buildi	TDS and Hardness	1	624.01	Scheduled
2/29/2016	South Concentrate Pond	EDOP Sampling	1	596.01	Scheduled
2/29/2016	North Concentrate Pond	EDOP Sampling	1	595.01	Scheduled
2/29/2016	ALV-2 Well	EDOP Sampling	1	594.01	Scheduled
2/29/2016	ALV-1 Well	EDOP Sampling	1	593.01	Scheduled
2/26/2016	BOX RO system	Send Pictures	2	607.01	Scheduled
2/26/2016	BOX BP3 VFD	Clean Eqp Clean Equipment	5	610.01	Scheduled
2/26/2016	BOX BP2 VFD	Clean Eqp Clean Equipment	5	609.01	Scheduled
2/26/2016	BOX BP1 VFD	Clean Eqp Clean Equipment	5	608.01	Scheduled
2/17/2016	RHF Generator	Annual Ser Annual Service	3	633.01	Scheduled
2/17/2016	BOX Generator	Annual Ser Annual Service	3	628.01	Scheduled
2/12/2016	RHF Generator	Ck Oil Check Oil Level(069)	5	617.01	Scheduled
2/12/2016	RHF Generator	Ck Fuel Check Fuel Level	5	616.01	Scheduled
2/12/2016	GN Generator	Ck Oil Check Oil Level(069)	5	614.01	Scheduled
2/12/2016	GN Generator	Ck Fuel Check Fuel Level	5	613.01	Scheduled
2/12/2016	BOX Generator	Ck Oil Check Oil Level(069)	5	612.01	Scheduled
2/12/2016	BOX Generator	Ck Fuel Check Fuel Level	5	611.01	Scheduled
2/10/2016	RHF Building	TDS and Hardness	1	618.02	Scheduled
2/10/2016	GRN Pump Building	TDS and Hardness	1	618.03	Scheduled
2/10/2016	Boxelder Pump Buildi	TDS and Hardness	1	618.01	Scheduled
2/8/2016	Water Sampling	Bacti Bacti Sampling(069)	1	619.01	Scheduled

TZA Water Engineers
a Lamp Rynearson Company

12596 W. Bayaud Ave., Ste. 330
Lakewood, Colorado 80228
303-971-0030
tza4water.com

GREATROCK NORTH WATER AND SANITATION DISTRICT
ENGINEER'S REPORT
APRIL 20, 2016

Greatrock North Pump Station Improvements

The project was advertised in the Brighton Standard Blade on March 23, March 30, and April 6. A pre-bid meeting was conducted on April 6. Six (6) general contractors have requested project manuals. Addenda were issued on April 8 and April 21. The bid opening is scheduled for April 26 at 3:00 p.m. at Lisa's office. A bid tabulation and recommendation of award will be presented at the April 28 Board meeting. An Adams County plan review package will be submitted upon receipt of the plan review fee ($1,390) from Lisa's office. TZA will be meeting with Timber Line Electric on April 28 to discuss updated instrumentation and control components.

Concentrate Management

On December 2, 2015, Ramey Environmental Compliance closed the valve to the north concentrate pond and opened the valve to the south concentrate pond. The valve between the two ponds remains closed. At the time the valves were changed, the north pond had approximately six inches to eight inches of freeboard and the south pond had a pond level recording of 2.23 feet. Since the valves were changed, the south pond has risen to a level recording of 3.75 feet as of April 20, 2016. Last weekend's snow storm raised the level from 3.53 feet to 3.75 feet. From December 15 to January 6, the RO unit was programmed to run a maximum of 8 hours each. On January 6, Jeff Rabas reduced the maximum run time to 4 hours per day. On March 2, 2016 Jeff Rabas increased the maximum run time to 6 hours per day. We continue to monitor the South pond level while targeting our water quality goals for total dissolved solids and hardness. Below is information from monthly data collection provided by Ramey Environmental Compliance for 2016.

Date	Location	TDS (lab)	Hardness (lab)	Conductivity (field)
02/10/16	RHF Tank	324 mg/l	88.9 mg/l	541 micromho/cm
02/10/16	GN Tank	337 mg/l	97.1 mg/l	567 micromho/cm
02/10/16	BECR Tanks	422 mg/l	134.8 mg/l	578 micromho/cm
March 2016	DATA PENDING FROM RAMEY ENVIRONMENTAL COMPLIANCE			
April 2016	DATA PENDING FROM RAMEY ENVIRONMENTAL COMPLIANCE			

Engineer's Report
April 20, 2016

Reverse Osmosis Water Treatment Plant Monitoring

TZA is monitoring the performance of the Osmonics reverse osmosis unit following Worth Hydrochem's service call in October of 2015. The new membranes were installed on October 28, 2015.

Date	Rejection (%)	Diff. Pressure (psi)	Feed Water Temp. (F)	Recovery (%)	RO Pump Hours
10/29/2015	99.4	31	58.9	79.3	1293.1
12/09/2015	99.3	32	53.6	78.6	1506.8
01/15/2016	99.2	31	54.4	79	1689.1
02/05/2016	99.1	33	54.2	79	1763.0
03/18/16	99.1	32	54.2	79	1932.9
April 2016	Data Pending				

Other Activities

Altela, Inc. – No update.

Water Quality and Hardness – Below are tables summarizing the water production data, water quality results, and water treatment plant observations.

Month	RO Permeate	Unfiltered UKA Water	Unfiltered ALV Wells
April (0419/16)	53%	37%	10%
March 03/31/16)	51%	38%	11%
February (02/22/16)	37%	38%	25%
January (01/20/16)	42%	38%	20%
December (12/14/15)	51%	38%	11%
November (11/21/15)	52%	38%	10%
October (10/25/15)	25%	36%	39%
September (09/20/15)	17%	34%	49%
August (08/24/15)	10%	33%	57%
July (07/19/15)	17%	35%	48%
June (06/28/15)	23%	37%	40%
May (05/25/15)	39%	42%	19%
April (04/27/15)	37%	39%	24%
March (03/22/15)	41%	40%	19%

Engineer's Report
April 20, 2016

The total hardness results tabulated below generally reflect a moderately hard water as of February of 2016:

Total Hardness (as CaCO3)			
Date	**BECR Tanks**	**RHF Tank**	**GN Tank**
April 2016	DATA PENDING		
March 2016	DATA PENDING		
02/10/16	134.8 mg/l	88.9 mg/l	97.1 mg/l
01/11/16	49.7 mg/l	55.4 mg/l	67.0 mg/l
12/14/15	45.9 mg/l	63.3 mg/l	52.0 mg/l
11/09/15	63.5 mg/l	103.3 mg/l	82.0 mg/l
10/14/15	134.1 mg/l	117.2 mg/l	118.7 mg/l
09/09/15	152.6 mg/l	164.3 mg/l	158.4 mg/l
08/19/15	159.1 mg/l	175.6 mg/l	173.1 mg/l
07/10/15	136.2 mg/l	158.8 mg/l	156.5 mg/l
06/11/15	92.0 mg/l	78.0 mg/l	80.1 mg/l
05/11/15	84.8 mg/l	72.6 mg/l	73.9 mg/l
04/13/15	99.6 mg/l	67.7 mg/l	68.6 mg/l
March 2015	53.7 mg/l	68.3 mg/l	59.1 mg/l
02/02/15	83.4 mg/l	113.8 mg/l	104.6 mg/l
01/14/15	105.2 mg/l	123.0 mg/l	111.7 mg/l
12/03/14	115.3 mg/l	194.5 mg/l	169.8 mg/l
10/01/14	188.8 mg/l	231.7 mg/l	225.6 mg/l
07/11/14	221.5 mg/l	222.7 mg/l	220.4 mg/l
05/16/14	165.2 mg/l	209.6 mg/l	198.1 mg/l

For comparison, hardness values are generally classified as:

Classification	Mg/l
Soft	0 – 60
Moderately hard	61 – 120
Hard	121 – 180
Very hard	GTE 181

Engineer's Report
April 20, 2016

Total Dissolved Solids (TDS)			
Date	**BECR Tanks**	**RHF Tank**	**GN Tank**
April 2016	DATA PENDING		
March 2016	DATA PENDING		
02/10/16	422 mg/l	324 mg/l	337 mg/l
01/11/16	278 mg/l	266 mg/l	243 mg/l
12/14/15	247 mg/l	290 mg/l	276 mg/l
11/09/15	275 mg/l	346 mg/l	320 mg/l
10/14/15	414 mg/l	406 mg/l	385 mg/l
09/09/15	470 mg/l	471 mg/l	495 mg/l
08/19/15	469 mg/l	500 mg/l	482 mg/l
07/10/15	417 mg/l	449 mg/l	468 mg/l
06/11/15	369 mg/l	350 mg/l	341 mg/l
05/11/15	401 mg/l	347 mg/l	366 mg/l
04/13/15	386 mg/l	326 mg/l	322 mg/l
March 2015	274 mg/l	324 mg/l	302 mg/l
02/02/15	350 mg/l	394 mg/l	383 mg/l
01/14/15	350 mg/l	394 mg/l	417 mg/l
12/03/14	417 mg/l	552 mg/l	511 mg/l
10/01/14	538 mg/l	603 mg/l	594 mg/l
07/11/14	565 mg/l	597 mg/l	599 mg/l
03/05/14	586 mg/l	543 mg/l	566 mg/l
01/08/14	553 mg/l	559 mg/l	575 mg/l
10/28/13	677 mg/l	643 mg/l	594 mg/l

Utility Billings and Energy Costs – TZA is tracking the United Power utility bills and associated water operations on a monthly basis. Below are the annual comparisons for each year.

	2012	**2013**	**2014**	**2015**
Annual KWH	693,583	520,026	333,629	366,737
Annual Billings	$74,040.05	$43,316.56	$28,204.49	$31,044.16
Average $/KWH	$0.10675	$0.08330	$0.08454	$0.08465

- The Rocking Horse Farms pumps were replaced on August 13, 2013
- The Box Elder Creek Ranch pumps were replaced on March 13, 2014

For the first quarter of 2016, we are 5.6% higher in energy consumption (3,962 kWh) and 6.9% higher in billings ($413.23) for the four metered accounts. Usage and billings are up at the Box Elder Creek Ranch and Rocking Horse Farms facilities and down at the Alluvial Wells and Greatrock North facilities. TZA has reviewed United Power's 2016 Rate Changes that went into effect with the April 1, 2016 usage. In all cases the facility charges will increase 20% to 25%, from $16.00 to $20.00 for the Alluvial Wells account and from $20.00 to $24.00 for the other three accounts. The Alluvial Well energy charge will decrease from $0.1118 per kilowatt hour to $0.10900. The On-Peak energy charge for the three commercial time of use (CTD) accounts will decrease from $0.15910 per kilowatt hour to $0.15613, while the Off-Peak energy charge will remain at $0.05858 per kilowatt hour.

Engineer's Report
April 20, 2016

Well, Pump, and Motor Replacements – The District has initiated efforts to better understand its well infrastructure and the potential need for replacement of pumps and motors, as well as the well structures themselves. As a part of that effort, TZA Water Engineers will need to work with Bishop-Brogden Associates to compile the historical aspects of the wells constructed, the pumps installed, and any other improvements (i.e. water level measuring devices) integrated at each site. This information will be used to evaluate the benefits of a pump, motor, and well maintenance program to detect changes in well performance. Early detection of deterioration in well performance will allow less expensive repairs, rehabilitation, or treatment procedures in order to maximize production capacity. This preventative maintenance program will be discussed with the District's Manager, and a formal proposal will be brought to the Board if deemed appropriate.

Warranty Inspections – Here is a summary of independent contractor projects:

- Rocking Horse Farms Pump Station – The warranty inspection was conducted by Jeff Rabas on July 18, 2014.
- Box Elder Creek Ranch Pump Station – The warranty inspection was conducted by Brad Simons on January 26, 2015.
- Rocking Horse Farms Tank Repainting – The improvements were inspected and accepted on June 11, 2014. A preliminary warranty inspection was conducted by Ramey Environmental Compliance on April 24, 2015 and Coblaco addressed some minor surface rust and some isolated coating repairs on August 5, 2015. Ramey Environmental Compliance informed TZA of some coating issues on the tank roof and Coblaco inspected the conditions on March 30, 2016. We are awaiting a plan from Coblaco.

Control Valves Evaluation – TZA transmitted information on a set of control valves at the Box Elder Creek Ranch pump station to iSiWest and REC's Equipment Services Division on March 29, 2016, and requested a service quote. To date, neither organization has responded. Brad will follow-up with both.

GREATROCK NORTH PUMP STATION PROJECT
414018.02
Bid Opening
4/26/2016

				Dans Custom		Longhorn Construction		Velocity Constructors		Stanek Constructors	
ITEM	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
1	Pump Station Complete	1	LS	$ 251,620.00	$ 251,620.00	$ 322,622.00	$ 322,622.00	$ 367,064.00	$ 367,064.00	$ 457,000.00	$ 457,000.00
2	Pump Allowance	1	LS	$ 63,800.00	$ 63,800.00	$ 63,800.00	$ 63,800.00	$ 63,800.00	$ 63,800.00	$ 63,800.00	$ 63,800.00
3	Pump Allowance Overhead and Markup	1	LS	$ 6,380.00	$ 6,380.00	$ 6,380.00	$ 6,380.00	$ 10,151.00	$ 10,151.00	$ 1,000.00	$ 1,000.00
4	Demolition of Existing Pump Station and Salvage Mechanical and Electrical Equipment	1	LS	$ 8,000.00	$ 8,000.00	$ 7,058.00	$ 7,058.00	$ 17,996.00	$ 17,996.00	$ 13,000.00	$ 13,000.00
TOTAL					$ 329,800.00		$ 399,860.00		$ 459,011.00		$ 534,800.00

Low $ 329,800.00
Average $ 430,867.75
High $ 534,800.00