
RECORD OF PROCEEDINGS

MINUTES OF A SPECIAL MEETING OF THE BOARD OF DIRECTORS OF THE GREATROCK NORTH WATER AND SANITATION DISTRICT HELD MAY 5, 2014

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 Monday, May 5, 2014 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 William Fleck
Brian K. Rogers
John D. Wyckoff
Jeffrey Polliard

Also In Attendance Were:

Lisa A. Johnson and Leon Gomes; Special District Management Services, Inc.

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

Brad Simons, P.E.; TST Inc. of Denver

DISCLOSURE OF POTENTIAL CONFLICTS OF INTEREST

Disclosures of Potential Conflicts of Interest: Attorney Tanaka advised the Board that, pursuant to Colorado law, certain disclosures may be required prior to taking official action at the meeting. The Board reviewed the Agenda for the meeting, following which Directors Fleck, Rogers, Polliard and Wyckoff each confirmed that they had no 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 Rogers, seconded by Director Polliard and, upon vote, unanimously carried, the Agenda was approved as amended and President Krayenhagen's absence was excused.

Board of Directors' Report: Director Wyckoff reported that the properties in Box Elder Creek Ranch that sustained landscape damage during the Box Elder Creek Pump Station project have been repaired. He also reported that the

RECORD OF PROCEEDINGS

installation of the irrigation systems at the facilities in Rocking Horse Farms and Greatrock North is scheduled to begin in two weeks.

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

COMMUNITY COMMENTS

Community Comments: There were no community comments.

CONSENT AGENDA

Consent Agenda: The Board considered the following actions:

- Approve Minutes from the April 1, 2014 special meeting.
- Ratify approval of payment of claims through the period ending April 9, 2014, as follows:

General Fund	\$ 68,410.41
Debt Service Fund	\$ -0-
Capital Projects Fund	\$ 49.50
Total Claims:	<u>\$ 68,459.91</u>

- Approval of Completion of Services and Termination of Agreement – Box Elder Creek Ranch Vertical Multistage Pumps Installation Project with Water Technology Group.

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

FINANCIAL MATTERS

Cash Position and Unaudited Financial Statements: Ms. Johnson presented the cash position and unaudited financial statements for the period ending March 31, 2014.

Following discussion, upon motion duly made by Director Polliard, seconded by Director Rogers and, upon vote, unanimously carried, the Board approved the cash position and unaudited financial statements for the period ending March 31, 2014.

May 5, 2014 Payment of Claims: Ms. Johnson presented the payment of claims for the period ending May 5, 2014.

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Following discussion, upon motion duly made by Director Wyckoff, seconded by Director Polliard and, upon vote, unanimously carried, the Board approved the payment of claims for the period ending May 5, 2014.

WATER MATTERS

Update on Options to Purchase Renewable Water Shares: The Board reviewed the memorandum from Mr. Sanchez regarding an update on his efforts to research options to purchase renewable water shares. Mr. Sanchez will attend the June meeting with his findings and presentation.

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.

Status of Pump Station Control Valve Maintenance: Mr. Simons reported that the contract with iSiWest, Inc. has been executed by the contractor. Once the Board executes the contract, the work will be scheduled and coordinated with the operator.

Status of Exterior Painting of the Potable Water Tank at Rocking Horse Farms: Mr. Simons reported that a pre-construction meeting was held on April. 9, 2014. He has drafted a change order proposal request to install a flanged screen on the tank overflow pipe. Coblaco Services, Inc. is reviewing the change order proposal, which may result in a project change order request.

Status of Box Elder Creek Ranch Pump Station Improvements: Mr. Simons reported that the pump station improvements were placed into service on March 13, 2014. Water Technology Group has installed the VFD control pads on the outside of the MCC buckets as requested. Mr. Simons recommends that the operator schedule an eleven month warranty inspection to review the installation in advance of March 13, 2015.

Fire Hydrant Maintenance: Mr. Simons presented an updated summary of the fire hydrants observed in Box Elder Creek Ranch, Rocking Horse Farms and Greatrock North subdivisions that are in need of maintenance. He will solicit cost proposals from contractors for this work and present at a future meeting.

Purchase of Redundant Fire Pump: Mr. Simons presented his research on procuring redundant fire pumps for Box Elder Creek Ranch/Rocking Horse Farms facilities and the Greatrock North facility.

Staff will include this information in the 2015 budget planning session.

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Re-location of Water Meters in Rockinghorse Farms from Inside the Home to a Meter Pit and Repair Curb Stops: The Board continued discussions regarding the repair of curb stops in Rockinghorse Farms and the re-location of water meters. Mr. Simons reported that Mr. Rabas has located all but 5 curb stops. In reviewing the information, it has been determined that 30 curb stops cannot be exercised for various reasons. Mr. Simons will finalize the request for proposals and solicit bids for this work as well as the costs to re-locate the water meters from inside the home to a water meter pit. Mr. Simons will also draft a letter to residents whose landscaping is the reason the curb stop cannot be exercised and ask them to make accessible.

Evaporation Ponds:

Reclassification of Box Elder Creek: Mr. Simons has begun a dialogue with Mr. Camrud with the Water Quality Control Division on this issue and is working through the process.

**OPERATIONS AND
MAINTENANCE
MATTERS**

Operations and Maintenance Update and Completed Work Order List: The Board reviewed the operations and maintenance update and the completed work order list. A copy of the report is attached hereto and incorporated herein by this reference.

Water Quality Report: The Board reviewed the monthly water quality report.

Status of Fabrication and Installation of Signs at the Facilities: Ms. Johnson reported that the contract has been signed by the contractor and will be presented to the Board for execution at the end of the meeting. A notice to proceed was issued to Mr. Ashcroft on May 2, 2014.

LEGAL MATTERS

Update on May 6, 2014 Election: Ms. Johnson reported that ballots were mailed to electors by the deadline. She then informed the Board that she will e-mail the results of the election to the Board and Board candidates once she receives them from the election judges. She has also appointed the Board of Canvasser's and scheduled the Canvass Board meeting for May 20, 2014 at which time the election results will become official.

New Board Member Orientation: Attorney Tanaka and Ms. Johnson discussed with the Board the option to prepare a new board member orientation and schedule a tour of the facilities with the new member/members. The Board was in favor of an orientation and site tour.

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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.

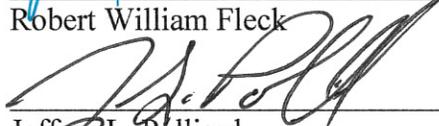
Respectfully submitted,

By  _____
Secretary for the Meeting

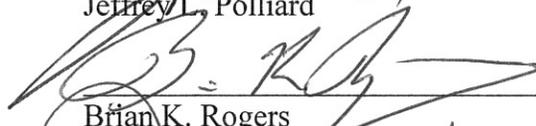
THESE MINUTES APPROVED AS THE OFFICIAL MAY 5, 2014 MINUTES OF THE GREATROCK NORTH WATER AND SANITATION DISTRICT BY THE BOARD OF DIRECTORS SIGNING BELOW:



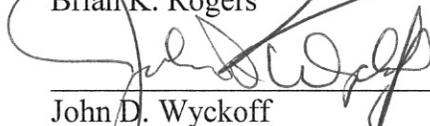
Robert William Fleck



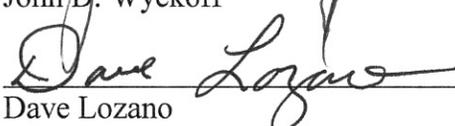
Jeffrey L. Polliard



Brian K. Rogers



John D. Wyckoff



Dave Lozano



Date: April 28, 2014
To: Greatrock North Water and Sanitation District, Board of Directors
From: Lisa A. Johnson, District Manager
Re: May 5, 2014 Manager's Report

Agenda Action Items

II.A. Consent Agenda

1. April 1, 2014 minutes.
2. April 9, 2014 payables.
3. Completion of Services and Termination of Agreement – Box Elder Creek Ranch Vertical Multistage Pumps Installation Project with Water Technology Group

I recommend approval of the consent agenda items.

III.A. March 31, 2014 Financial Statements

I will present the first quarter financial statements at the meeting.

I recommend acceptance of the March 31, 2014 financial statements.

Updates on Other District Related Items

Periodic meetings with Operations Staff – Mr. Rabas and I are meeting periodically to discuss on-going operations issues, concerns, and projects.

Items discussed at the March meetings:

-Reviewed the actions items status matrix.

-Discussed revisions to the Standard Operating Procedure regarding Water Main Leaks

-Discussed inventory of hydrants that are in need of maintenance.

-Discussed status of curb stop maintenance in RHF.

Review of monthly Water Resumes

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

Summary of mid-month meeting with Directors Fleck and Wyckoff

Director Wyckoff, Mr. Simons and I met on April 10, 2014 for our mid-month meeting. Items discussed at this meeting are as follows:

- Update on the efforts to re-classify Box Elder Creek.
- Discussion on the purchase of redundant fire pump.
- Discuss the fabrication and installation of signs at the facilities.
- Inventory of fire hydrants in need of maintenance.
- Billing vs. production of water discrepancy at the GRN facility.

**GREATROCK NORTH WATER AND SANITATION DISTRICT
ENGINEER'S REPORT
April 25, 2014**

EDOP Compliance

The second round of quarterly testing has been completed for Alluvial Well No. 1, Alluvial Well No. 2, South Evaporation Pond, and North Evaporation Pond. The results are presented in the attached EDOP Compliance Monitoring sheets (2 pages). The annual report is to be filed with the Solid and Hazardous Waste Program in June of 2014. A copy of the June 5, 2013 annual report is attached for reference (3 pages).

Cla-Val Units at Pump Stations

iSiWest, Inc. has executed the Independent Contractor Agreement and is awaiting a fully-executed copy from the District. iSiWest is aware of the need to coordinate the work with Ramey Environmental Compliance.

Rocking Horse Farms Tank Repainting

A pre-construction meeting was conducted on April 9, 2014. The meeting minutes are attached. I have drafted a change order proposal (COPR) request to install a flanged screen on the tank overflow pipe. Coblaco Services is reviewing the COPR, which may result in a project change order.

Box Elder Creek Ranch Pump Station

The pump station improvements were placed into service on March 13, 2014. Water Technology Group has installed the VFD control pads on the outside of the MCC buckets as requested. I recommend Ramey Environmental Compliance schedule the eleven (11) month warranty inspection to review the installation in advance of March 13, 2015.

Fire Hydrant Maintenance and Repairs

Attached is an updated summary (1 page) of the fire hydrants observed in the Box Elder Creek Ranch, Rocking Horse Farms and the Greatrock North subdivisions. I will solicit cost quotations from independent contractors for corrections.

Pump Station Fire Pumps

Attached is a summary of my research into procuring redundant fire pumps for Box Elder Creek Ranch/Rocking Horse Farms facilities and the Greatrock North pump station (2 pages).

Engineer's Report
 April 25, 2014
 Page Two

Relocation of Water Meters in Rocking Horse Farms

Associated with the curb stop inspection, exercising, and repairs in the most recent Action Items matrix, Ramey Environmental Compliance is attempting to locate the 12 remaining curb stops. Upon determination that all possible curb stops have been located, a prioritization of the meters and landscaping impacts will need to be discussed with the Board.

Concentrate Disposal and Stream Reclassification

I met with Doug Camrud, of the Water Quality Control Division, on April 15. On April 25, Doug sent me an e-mail reporting on his research of the plans review actions. Doug also indicated that he will discuss the classification of Box Elder Creek with the permits and standards units and have someone contact me.

Other Activities

Blending to Improve Water Quality: On November 11, 2013 TLECC modified the programming code to allow the RO run time to be operator defined. The timer now ranges from 0 to 1,440 minutes (24 hours) and is currently set at 240 minutes (4 hours) – up from the 30 minutes previously established. Ramey Environmental Compliance sampled for total dissolved solids at each tank site in January and March to determine the impact of this change in operation. Below are results:

	March 5, 2014	January 8, 2014	October 28, 2013
Box Elder Creek Ranch	586 mg/l TDS	553 mg/l TDS	677 mg/l TDS
Rocking Horse Farms	543 mg/l TDS	559 mg/l TDS	643 mg/l TDS
Greatrock North	566 mg/l TDS	575 mg/l TDS	594 mg/l TDS

Utility Billings and Energy Costs: TST has initiated tracking of the United Power utility bills and associated water operations. Year-to-date information for usage and billings for the last three years is presented in the attached summary (3 pages). Furthermore, information associated with water operations and energy usage/billings per 1,000 gallons of water is also presented.

Monthly Flow Reports: TST is developing graphs to depict the daily water accounting. Copies of the draft materials for the period from March 27 to April 5 are attached (4 pages) and will be discussed at the Board meeting. There are a variety of formatting issues to be addressed for the final product.

Parameter	Unit	120206 Baseline	2013				2014				2015				2016	
			QTR 3	QTR 4	QTR 1	QTR 2	QTR 3	QTR 4	QTR 1	QTR 2	QTR 3	QTR 4	QTR 1	QTR 2		
ALV-1																
140311	Results	140402														
Sodium	mg/L	93			113.6											
Calcium	mg/L	97			131.5											
Magnesium	mg/L	17			23.3											
Iron	mg/L	0.007			0.012											
Chloride	mg/L	120			193.7											
Sulfate	mg/L	133			207.54											
Alkalinity	mg/L	162			170.1											
TDS	mg/L	659			856											
Total Hardness (as CaCO3)	mg/L	309			424.2											
pH	s.u.	6.95			7.58											
Fluoride	mg/L	0.68			0.83											
ALV-2																
140311	Results	140402														
Sodium	mg/L	99			115.3											
Calcium	mg/L	126			151.9											
Magnesium	mg/L	25			30.1											
Iron	mg/L	0.013			0.005											
Chloride	mg/L	102			118.35											
Sulfate	mg/L	237			310.15											
Alkalinity	mg/L	198			255.7											
TDS	mg/L	816			958											
Total Hardness (as CaCO3)	mg/L	412			503.3											
pH	s.u.	7.39			7.78											
Fluoride	mg/L	0.61			0.77											

Parameter	Unit	120310 Baseline	2013				2014				2015				2016	
			QTR 3	QTR 4	QTR 1	QTR 2	QTR 3	QTR 4	QTR 1	QTR 2	QTR 3	QTR 4	QTR 1	QTR 2		
South Pond																
Parameter	Unit	140305 Results	140402 Results													
Sodium	mg/L	1075.0	1404.0													
Calcium	mg/L	118.1	95.3													
Magnesium	mg/L	125.2	146.7													
Iron	mg/L	0.016	0.073													
Chloride	mg/L	955.92	1166.48													
Sulfate	mg/L	1210.67	1416.91													
Alkalinity	mg/L	366.0	418.0													
TDS	mg/L	4021	4746													
Total Hardness (as CaCO3)	mg/L	810.1	841.6													
pH	s.u.	9.43	9.28													
Fluoride	mg/L	2.51	2.74													
North Pond																
Parameter	Unit	140305 Results	140402 Results													
Sodium	mg/L	727.5	763.8													
Calcium	mg/L	157.2	149.1													
Magnesium	mg/L	134.3	135.0													
Iron	mg/L	0.849	0.295													
Chloride	mg/L	854.97	844.40													
Sulfate	mg/L	1135.43	1129.28													
Alkalinity	mg/L	187.5	173.1													
TDS	mg/L	3392	3534													
Total Hardness (as CaCO3)	mg/L	945.2	927.8													
pH	s.u.	9.21	9.09													
Fluoride	mg/L	2.07	1.51													

TECHNICAL MEMO

TO:	Doug Eagleton, P.E.
PHONE:	303-691-4065
FROM:	Andrea Bollinger
RE:	Greatrock North Water and Sanitation District (GNWSD), 2012 Annual Report
DATE:	June 5, 2013
PROJECT #:	012-1297
PHASE:	210

Section 9.3.5 (D) of the Hazardous Material and Waste Management Division's (Division) *Regulations Pertaining to Solid Waste Sites and Facilities* (Regulations) outlines the Annual Report requirements for GNWSD Type B impoundments, also known as the south and north evaporation ponds.

Per the letter dated May 19, 2013 from the Division to Waste Impoundment Facility Owners and Operators regarding *Section 9 Waste Impoundment Regulations Extension for Submittal of 2012 Annual Report*, GNWSD has until June 30, 2012 to submit the Annual Report for their Type B impoundments. Olsson Associates has prepared the 2012 Annual Report on behalf of GNWSD. The five items listed below follow Section 9.3.5 (D) of the Regulations.

(1) Total Volume

A schematic of GNWSD's reverse osmosis (RO) treatment system is provided in Figure 1. Flow from the alluvial wells is metered and is sent to the RO unit. A portion of the water bypasses the RO unit through a metered pipe and the remainder of the water is treated by the RO unit. The RO permeate is combined with the bypassed water where it is blended with metered raw water, disinfected, and sent to the distribution system.

Based on the RO manufacture, the RO unit is 75% efficient and this is the basis for calculating the RO concentrate volume. A 75% efficient unit results in 25% of the RO influent becoming RO concentrate. To calculate the total volume of concentrate, SCADA records for operation were utilized and determined by the following process:

The difference between the yearly metered alluvial well flow (FM1) and the RO bypass flow (FM2) equals the RO influent. The RO influent multiplied by 25% equals the RO Concentrate. Table 1 provides the calculated 2012 yearly totals for RO concentration.

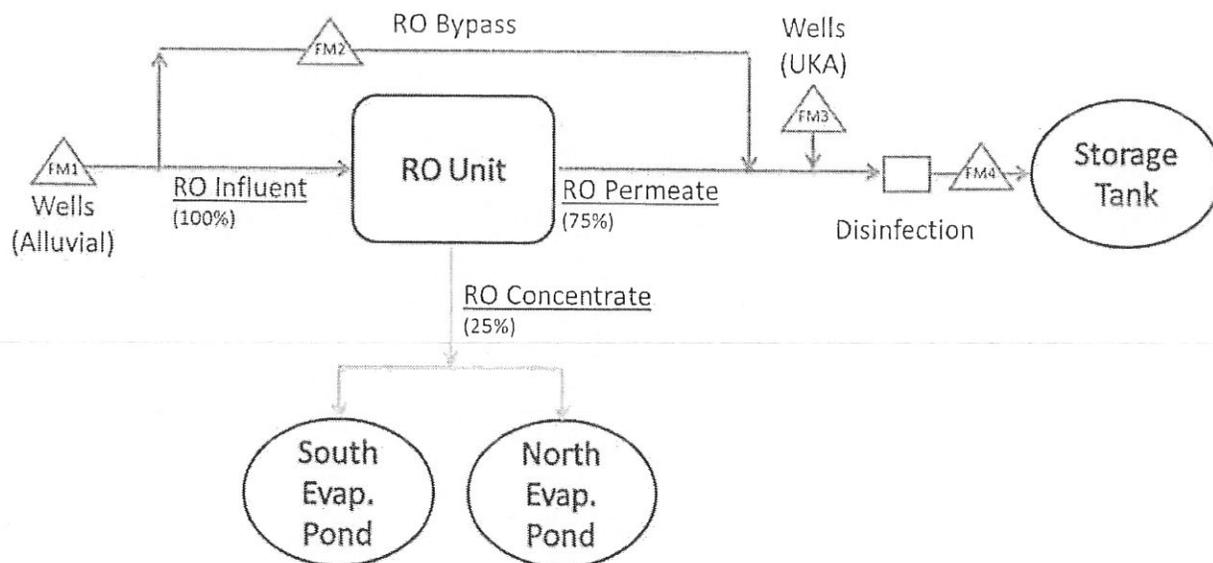


Figure 1: GNWSD Process Schematic

Table 1: 2012 Yearly Concentrate Totals

Alluvial Well Total (FM1) Gallons	RO Bypass (FM2) Gallons	Total RO Influent (FM1 - FM2) Gallons	Concentrate (25% of Total RO Influent) Gallons
42,402,000	17,780,000	24,622,000	6,155,500

(2) Concentrate Removed

Typically, concentrate is only removed via evaporation. In order to calculate evaporation rate, data was gathered from the Northern Colorado Water Conservancy District databases for three climate stations located within a thirty-two mile radius of the District. Assuming the maximum pond surface area, the approximate yearly pond evaporation is 5,421,000 gallons per year.

As a means of further reducing the RO Concentrate, GNWSD entered into an intergovernmental agreement in 2012 with the Town of Hudson Wastewater Treatment Facility (WWTF). Limited quantities of RO concentrate were trucked to the WWTF for treatment. However, issues arose at the WWTF, unrelated to the RO concentrate, which resulted in cancelling the agreement for the foreseeable future. Table 2 provides a summary of the concentrate removed from the evaporation ponds in 2012 via yearly evaporation and quantity of concentrate hauled off site.

Table 2: Estimated Quantities of Concentrate Removed in 2012

Pond Evaporation GPY	Haul to WWTF GPY
5,421,000	222,600

(3) Unplanned Releases

Not applicable, GNWSD did not have any unplanned releases in 2012.

(4) Third Party Wastes

Not applicable, GNWSD does not receive third party waste.

(5) Annual Ground Water Monitoring Report

During the 2012 operating year an approved ground water operating plan was not in place. However, GNWSD has submitted an Engineering, Design, and Operation Plan (EDOP) to the Division outlining the proposed Ground Water Monitoring Plan. Once the EDOP and Ground Water Monitoring Plan are approved, GNWSD will begin collecting data per the approved plan and will submit the available data in the 2013 Annual Report.

CC: Lisa Johnson, District Manager
Jeff Rabas, District Operator

Project file: F:\Projects\012-1297 - EDOP\Documents\Reports\2012 Annual Report\2013-06-05_Technical Memo_2012 Annual Report.doc

GNWSD - 2014 Fire Hydrant Evaluation

Subdivision: Box Elder Creek Ranch										
Date	Location	Manufacturer	Year Mfg	Working Pressure	Bury Depth	Left Hose Nozzle	Pumping Hose Nozzle	Right Hose Nozzle	Nozzle Distance Above Groundline (inches)*	
140211	16545 Timber Cove Street	Waterous	2000	250 psi	5'-6"	9.0	10.0	10.5		
140211	16401 Timber Cove Street	Waterous	2000	250 psi	5'-6"	11.0	11.0	10.5		
140211	16330 Timber Cove Street	Waterous	2000	250 psi	5'-6"	10.0	9.0	9.5		
140211	16461 Tree Haven Street	Waterous	2000	250 psi	5'-6"	12.0	10.5	10.5		
140211	16550 Tree Haven Street	Waterous	2000	250 psi	5'-6"	8.5	8.5	9.0		
140211	16670 Tree Haven Street	Waterous	2000	250 psi	5'-6"	12.0	11.0	11.0		
Subdivision: Rocking Horse Farms										
Date	Location	Manufacturer	Year Mfg	Working Pressure	Bury Depth	Left Hose Nozzle	Pumping Hose Nozzle	Right Hose Nozzle	Nozzle Distance Above Groundline (inches)*	
140423	16385 Jalna Court**	Mueller Super Centurion	1999	250	Unknown	8.5	9.0	9.0		
Subdivision: Greatrock North										
Date	Location	Manufacturer	Year Mfg	Working Pressure	Bury Depth	Left Hose Nozzle	Pumping Hose Nozzle	Right Hose Nozzle	Nozzle Distance Above Groundline (inches)*	
140423	16225 Great Rock Way**	Waterous	1997	250	5'-6"	12.0	13.0	12.5		
140423	160th Court and Electra Street**	Waterous	1997	250	5'-6"	16.5	18.0	16.0		
140423	28925 East 160th Place**	Waterous	1988	150	5'-0"	14.0	15.0	15.5		
140506	28925 East 160th Place	Waterous	Per J. Wycokoff e-mail, this hydrant appears to have been hit and is leaning to the west.							

* Waterous recommends the nozzle elevation (centerline) above groundline be no less than 18 inches.

** Identified via e-mail from L. Johnson on April 14, 2014.

**Greatrock North Water and Sanitation District
Fire Pump Contingency**

Box Elder Creek Ranch and Rocking Horse Farms Pump Stations

The existing Box Elder Creek Ranch fire pump is a Goulds 18BF2U2B0 (75 horsepower, 12.5" impeller).

The existing Rocking Horse Farms fire pump is a Goulds 18BF2T2C0 (60 horsepower, 12.3125" impeller).

A spare Box Elder Creek Ranch fire pump could be maintained as a redundant arrangement for both pump stations. A valve on the fire pump discharge pipe at Rocking Horse Farms could be used to control the flow, or the larger arrangement would simply result in some additional flow from this pump station.

The Goulds 18BF2U2B0 is a cast iron, bronze fitted, end-suction flanged pump in the Goulds 3656M line.

The model 3656 offers close coupled design for space saving and simplified maintenance.

The 18BF2U2B0 product code is also the catalog number for the pump. The meaning of each digit in the product code is shown below.

18BF = 6x8-13 Pump Size (BF = bronze fitted)

2 = 60 Hz, 4 pole, 1750 RPM Driver

U = 75 HP Rating

2 = 3 Phase, ODP Motor

B = 12-1/2 inch Impeller Code

0 = Seal Code Materials

Carbon Rotary

Ceramic Stationary

BUNA-N Elastomers

316 SS Metal Parts

The pump weighs 290 pounds and the motor weighs 1005 pounds.

The pump/motor footprint (for storage) is 47.5" (L) x 28.625" (W). The pump/motor height is 20".

The budgetary price for the pump/motor arrangement is \$10,000 (\$8,850.00 quoted by Quadna on 02/19/14).

The lead time is around three to six weeks (provided by Quadna on 03/20/14).

On April 21, 2014, Water Technology Group quoted an alternate spare configuration – a Model 10AI/BF / Size 4x5-8, 3500 RPM, 75 horsepower unit – for \$13,500, with a lead time of 10 weeks.

**Greatrock North Water and Sanitation District
Fire Pump Contingency**

Greatrock North Pump Station

The existing Greatrock North fire pump is a Goulds VIT-CATM 12RJLC 4-stage vertical turbine pump (60 horsepower, 7.8125" impeller).

A spare Greatrock North fire pump arrangement (bowls, column, discharge head, and motor) could be procured from Water Technology Group.

The total weight of the unit (bowls, column, discharge head, and motor) is 2,059.2 pounds.

The pump and column measure 15 feet in length. The discharge head is approximately 2 feet in diameter and approximately 18 inches in height. The motor is approximately 3 feet in height.

The budgetary price for the arrangement is \$24,000 (\$21,232.00 quoted by Water Technology Group on 04/21/14).

The lead time is around eight to 10 weeks (provided by WTG on 04/21/14).

GNWSD Utility Billings and Energy Costs

	Alluvial Wells				Usage (KWH)				GN				RHF			
	2012	2013	2014		2012	2013	2014		2012	2013	2014		2012	2013	2014	
Jan	2970	2136	2341		13520	13680	15360		4200	5400	5440		3960	17520	2400	
Feb	2177	1832	1972		12520	12240	14400		5040	4840	5160		3840	11520	2200	
Mar	2724	1854	2329		11960	11400	11600		4200	5080	4720		3400	10720	2080	
Apr																
May																
Jun																
Jul																
Aug																
Sep																
Oct																
Nov																
Dec																
YTD	7871	5822	6642		38000	37320	41360		13440	15320	15320		11200	39760	6680	

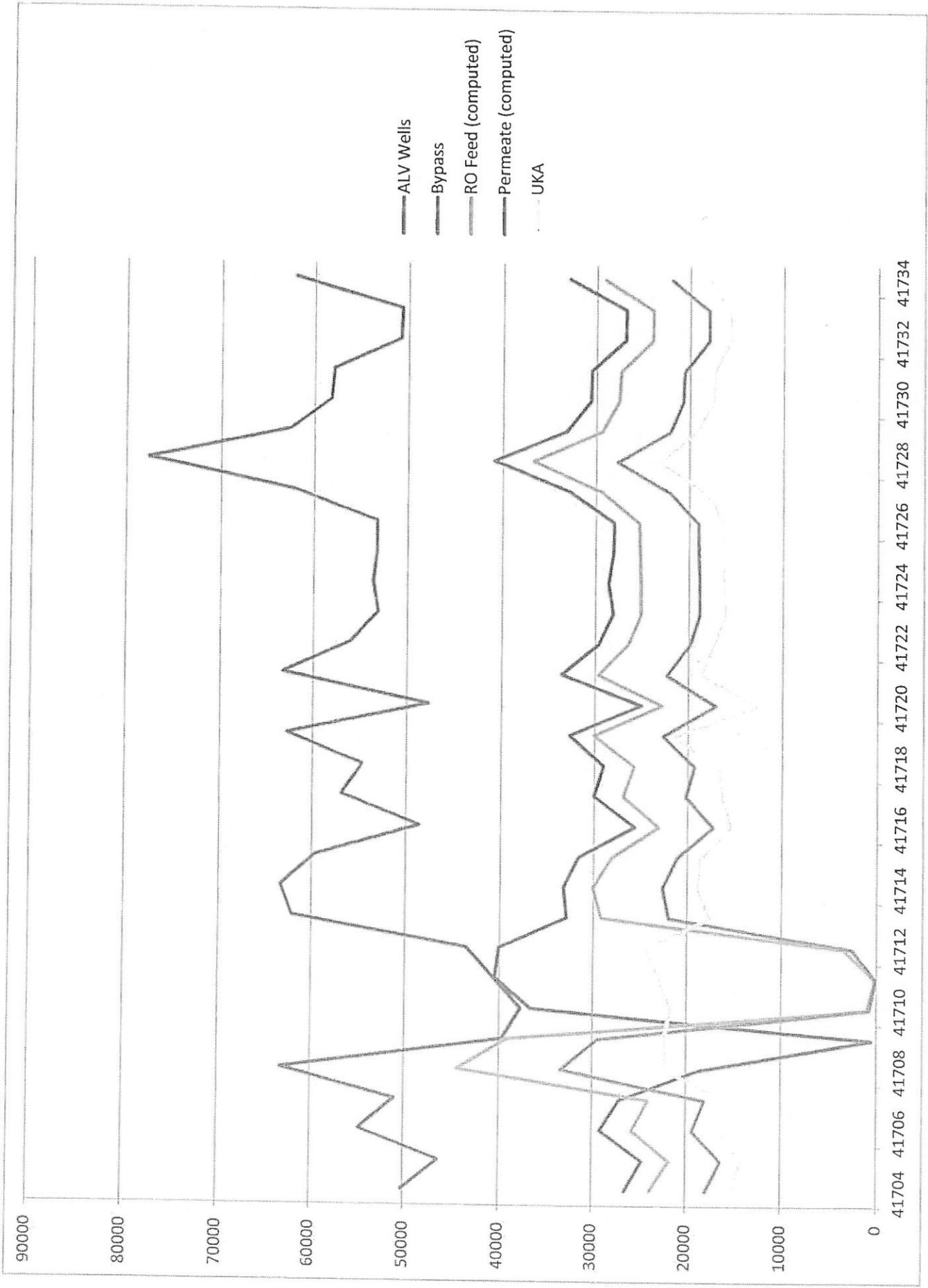
	Alluvial Wells				Billing Amount				GN				RHF			
	2012	2013	2014		2012	2013	2014		2012	2013	2014		2012	2013	2014	
Jan	\$ 547.88	\$ 358.98	\$ 277.72		\$ 1,651.60	\$ 1,725.12	\$ 1,108.54		\$ 467.45	\$ 670.70	\$ 435.45		\$ 372.28	\$ 1,596.64	\$ 226.87	
Feb	\$ 532.28	\$ 341.31	\$ 236.47		\$ 1,621.27	\$ 792.21	\$ 1,057.09		\$ 705.94	\$ 364.19	\$ 412.92		\$ 512.12	\$ 899.32	\$ 208.26	
Mar	\$ 553.69	\$ 223.28	\$ 276.38		\$ 1,645.34	\$ 823.97	\$ 862.64		\$ 643.23	\$ 422.21	\$ 391.36		\$ 520.05	\$ 894.39	\$ 202.38	
Apr																
May																
Jun																
Jul																
Aug																
Sep																
Oct																
Nov																
Dec																
YTD	\$ 1,633.85	\$ 923.57	\$ 790.57		\$ 4,918.21	\$ 3,341.30	\$ 3,028.27		\$ 1,816.62	\$ 1,457.10	\$ 1,239.73		\$ 1,404.45	\$ 3,390.35	\$ 637.51	

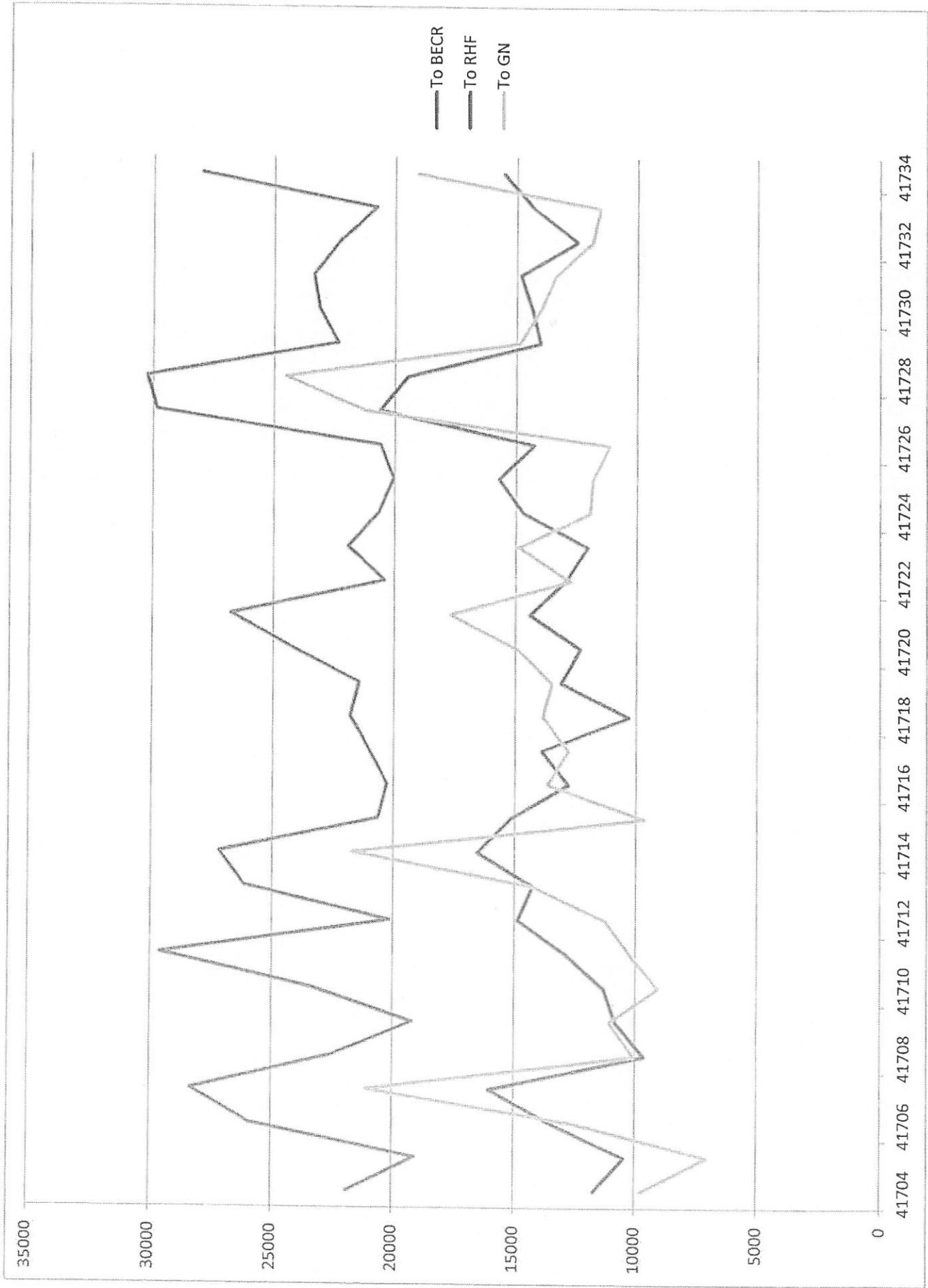
GNWSD Utility Billings and Energy Costs

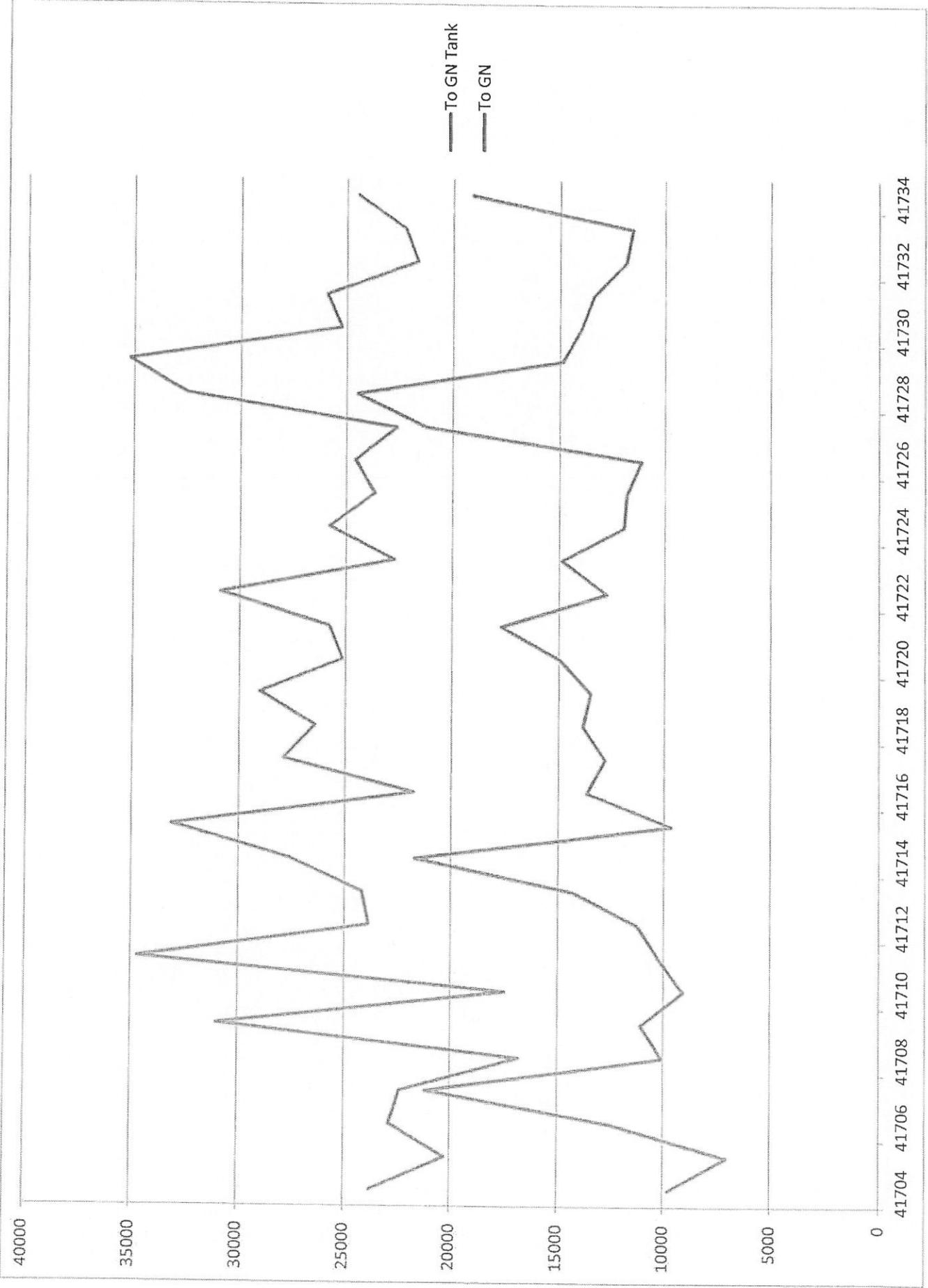
Water Operations (gallons)												
Alluvial Wells			BECR			GN			RHF			
2012	2013	2014	2012	2013	2014	2012	2013	2014	2012	2013	2014	
Jan		1,720,830			2,144,122			542,401			443,608	
Feb		1,507,059			1,886,973			424,378			349,397	
Mar		1,664,857			1,977,083			383,936			401,330	
Apr												
May												
Jun												
Jul												
AUG												
Sep												
Oct												
Nov												
Dec												
YTD		4,892,746			6,008,178			1,350,715			1,194,335	
Water Operations (KWH/1000 gallons)												
Alluvial Wells			BECR			GN			RHF			
2012	2013	2014	2012	2013	2014	2012	2013	2014	2012	2013	2014	
Jan		1.3604			7.1638			10.0295			5.4102	
Feb		1.3085			7.6313			12.1590			6.2966	
Mar		1.3989			5.8672			12.2937			5.1828	
Apr												
May												
Jun												
Jul												
AUG												
Sep												
Oct												
Nov												
Dec												
YTD		1.3575			6.8840			11.3421			5.5931	

GNWSD Utility Billings and Energy Costs

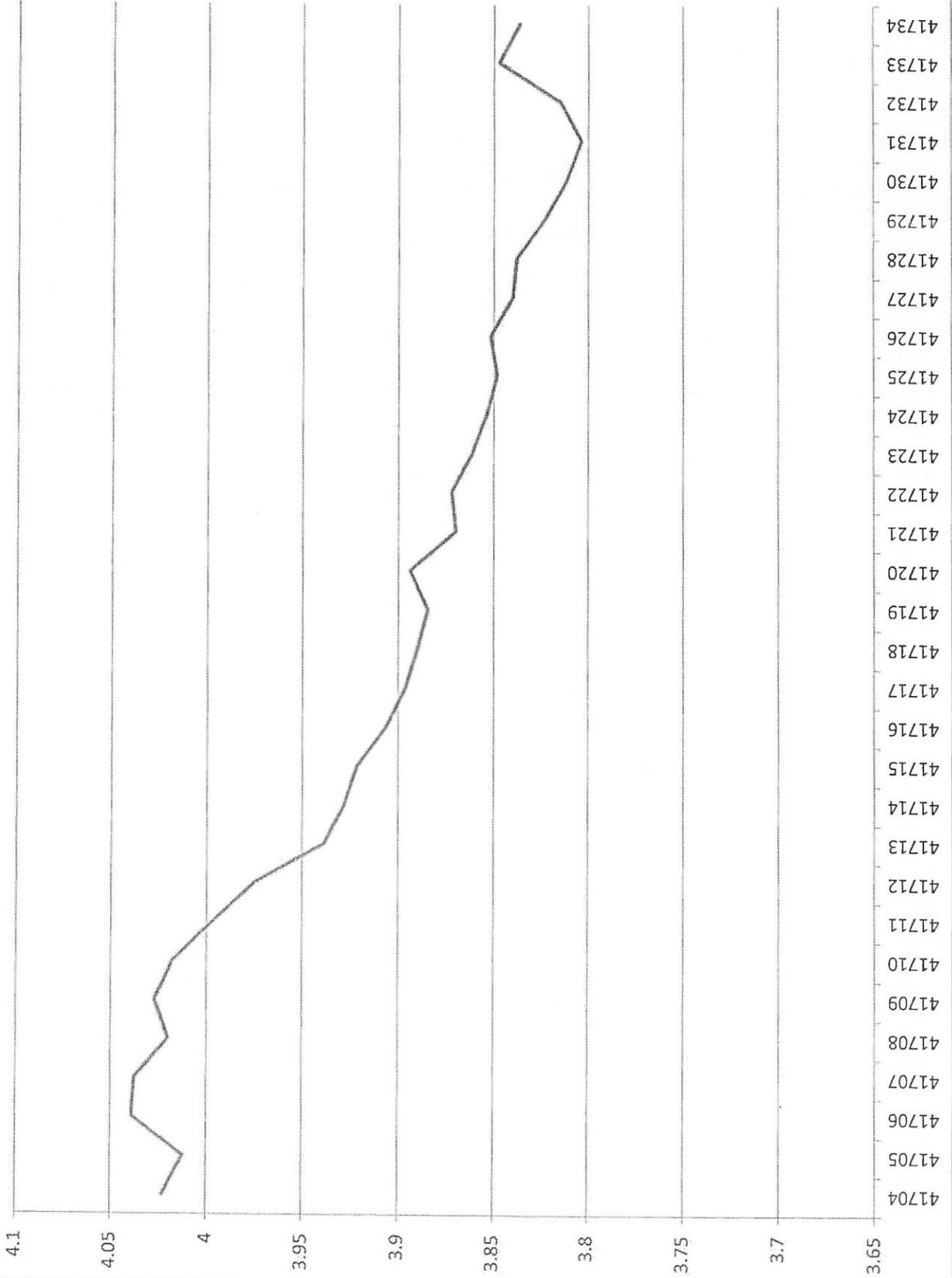
	Water Operations (\$/1000 gallons)											
	Wells			BECR			GN			RHF		
	2012	2013	2014	2012	2013	2014	2012	2013	2014	2012	2013	2014
Jan			\$ 0.1614			\$ 0.5170			\$ 0.8028			\$ 0.5114
Feb			\$ 0.1569			\$ 0.5602			\$ 0.9730			\$ 0.5961
Mar			\$ 0.1660			\$ 0.4363			\$ 1.0193			\$ 0.5043
Apr												
May												
Jun												
Jul												
Aug												
Sep												
Oct												
Nov												
Dec												
YTD	0	0	\$ 0.1616	0	0	\$ 0.5040	0	0	\$ 0.9178	0	0	\$ 0.5338







Pond





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 26th – April 23rd**

- 3/26/14: Regular checks and readings.
- 3/28/14: Regular checks and readings.
- 3/31/14: Regular checks and readings.
- 4/2/14: Regular checks and readings.
- 4/4/14: Regular checks and readings.
- 4/7/14: Regular checks and readings.
- 4/9/14: Regular checks and readings. Try to determine where the water in Rocking Horse's septic tank goes.
- 4/11/14: Regular checks and readings.
- 4/14/14: Regular checks and readings.
- 4/16/14: Regular checks and readings. Collected and delivered monthly samples.
- 4/18/14: Regular checks and readings.
- 4/21/14: Regular checks and readings.
- 4/23/14: Regular checks and readings. Mixed the anti-scalient.

Pond levels are below depth markers.

March 26th – April 23rd

RO Run Time Hrs	88.5 hrs
RO Concentrate Flow – 2 ponds	175,230 gallons

Completed Work Order

; Facility Name: Greatrock North WSD

Date Completed	Work Order	Equipment	Task	Equipment Description	Location Name	Department	Equipment Priority
4/16/2014	308.01	Water Sampling	Bacti Bacti Sampling	(0) Water Compliance Sar	PWSIDCO01010663P	Greatrock North WSD	
4/2/2014	297.01	ALV-1 Well	EDOP Sampling	Alluvial Well #1		Greatrock North WSD	
4/2/2014	298.01	ALV-2 Well	EDOP Sampling	Alluvial Well #2		Greatrock North WSD	
4/2/2014	299.01	North Concentrate Pond	EDOP Sampling	North Concentrate Por		Greatrock North WSD	
4/2/2014	300.01	South Concentrate Pond	EDOP Sampling	South Concentrate Por		Greatrock North WSD	
3/21/2014	287.01	BOX RO system	CIP Clean in place	filter rows	BOX RO bldg. Reverse	Greatrock North WSD	
3/19/2014	283.01	BOX BP1 VFD	Clean Equip Clean Equip	BOX Booster pump 1	\ BOX pump bldg Raybu	Greatrock North WSD	
3/19/2014	284.01	BOX BP2 VFD	Clean Equip Clean Equip	BOX Booster pump 2	\ BOX pump bldg Raybu	Greatrock North WSD	
3/19/2014	285.01	BOX BP3 VFD	Clean Equip Clean Equip	BOX Booster pump 3	\ BOX pump bldg Raybu	Greatrock North WSD	
3/19/2014	280.01	Water Sampling 011	Inorganics Inorganics	(Water Sampling EP01	\ PWSIDCO01010663P	Greatrock North WSD	
3/19/2014	279.01	Water Sampling 011	Fluoride Fluoride	(069) Water Sampling EP01	\ PWSIDCO01010663P	Greatrock North WSD	