

ORIGINAL

NEW APPLICATION



0000123707

ARIZONA CORPORATION COMMISSION



**RATE APPLICATION
FOR WATER COMPANIES
WITH ANNUAL GROSS OPERATING REVENUES
(INCLUDING REQUESTED RATE RELIEF)
OF LESS THAN \$250,000
PER ARIZONA ADMINISTRATIVE CODE R14-2-103
Details at website: www.azcc.gov**

Parker Springs Water Company

UTILITY NAME

October 30, 2010

TEST YEAR ENDED

W-01853A-11-0065

Required invoices to be submitted are listed in the checklist on page 1.

You must complete ALL items in the application according to the instructions provided. If you have any questions regarding the application please call (602) 542-4251 for Staff assistance or see our website at: www.azcc.gov

IN ORDER TO PROCESS YOUR APPLICATION
PLEASE FORWARD THE ORIGINAL
AND FIFTEEN COPIES OF THE
APPLICATION PLUS
THREE PACKETS WITH COPIES OF
CHECKLIST ITEMS 5-11 (PAGE 1)

ARIZONA CORPORATION COMMISSION
DOCKET CONTROL CENTER
1200 WEST WASHINGTON STREET
PHOENIX, ARIZONA 85007

Arizona Corporation Commission
DOCKETED

FEB - 3 2011

DOCKETED BY NR

ARIZONA CORPORATION COMMISSION
DOCKET CONTROL

2011 FEB - 3 P 4: 04

RECEIVED

WATER RATE APPLICATION CHECKLIST

Please use the following checklist to ensure that all necessary attachments are included in the application. Provide an explanation for any omitted item. Please include **13 copies** of this application in your application submission. Also, please include **three packets** with copies of checklist items 5-11.

ORIGINAL APPLICATION PACKAGE ITEMS

- 1. The Arizona Department of Environmental Quality ("ADEQ") compliance status report (use the Maricopa County request if in Maricopa County). Use the appropriate request form in the appendix at the end of this application to obtain the status report. A separate form should be used for each public water system, as defined by ADEQ, which is part of this application.
- 2. The Arizona Department of Revenue ("ADOR") certificate of compliance letter of good standing. The form is available online at http://www.azdor.gov/ADOR_Forms/20-29/25-0002_fillable.pdf
- 3. The utility's most recent ADEQ annual sampling fee invoice for its Monitoring Assistance Program.
- 4. Invoices for each plant asset purchase in excess of \$150 for the Test Year, as well as all of the intervening years since the utility's prior Test Year as itemized on page 12.

Please provide 3 packets with copies of the following information to support entries on the Income Statement on page 19:

- 5. A breakdown by name, position, salary, and duties for the Salaries and Wages expense. (Acct. 601) *N/A*
- 6. Invoices for Purchased Water during the Test Year. (Acct. 610) *N/A*
- 7. Invoices for Purchased Power during the Test Year. (Acct. 615) ~~N/A~~
- 8. Invoices for Repairs and Maintenance in excess of \$150 incurred during the Test Year. (Acct. 620)
- 9. Invoices for Outside Services in excess of \$150 incurred during the Test Year. (Acct. 630)
- 10. Invoices for Water Testing during the Test Year (Acct. 635)
- 11. Statements from the county for Property Tax expenses incurred during the Test Year. (Acct. 408.11)

NARRATIVE DESCRIPTION OF APPLICATION FOR RATE ADJUSTMENT

Instructions:

Please provide the reasons for your requested rate adjustment by checking the appropriate box(es) below. If desired, the Company may also attach a written narrative regarding its reasons for the requested rate adjustment. Your narrative may also include efforts made by the utility to control costs/expenses and/or mitigate the amount of rate adjustment.

- Changes in current, compared to past operations, that necessitate the rate adjustment
Please explain:

The Company received a WIFA grant in 2009 to study environmental and engineering status. ADEQ also performed a study. Several recommendations were made. Company wishes to apply for a WIFA loan (subject to ACC approval) to finance the recommended changes. A Financing Application is being filed and we respectfully request that these applications be considered together.

- Descriptions and/or calculations of adjustments made to amounts that are included in this application that are different than amounts recorded in your books/ledgers (pro forma adjustments)
Please explain:

Test year is based on November 2009 – October 2010.. The prior year comparison is based on November 2007 – October 2008. Normally our year is Jan-Dec.

- Significant factors influencing your revenues, expenses and/or rate base
Please explain:

The Company has contracted with an outside service to prepare monthly invoicing and financial reports. This is an added cost of \$200 per month.

- Anticipated growth/decline in customers expected in the next two years, the amount of anticipated construction to serve those customers, and how financed; the type of customers served by the utility, e.g. residential, irrigation, small retail businesses, large commercial, etc.
Please explain:

We don't anticipate any large increase or decrease in our customer base. Based on past history, we may see one added customer approximately every 2 years.

- Anticipated construction
Please explain:

If the Corporation Commission grants authority, we will continue with our application to WIFA for a low cost loan to perform construction as advised by the engineering study performed during 2009-10. Three copies each of the engineering study and ADEQ evaluation are included. The rate request is based on a proposed loan of \$271,000.

- Efforts made to encourage conservation of water through the proposed rate design or through other means

Our current rate schedule is tiered in such a way as to encourage water conservation. The new rate schedule will follow the same pattern. We also encourage our customers to turn their meters off during prolonged absence to prevent loss due to unanticipated line breaks. We have a voluntary crew that inspects the system weekly for problems. We currently are experiencing an ongoing problem with a leak in our system. It is hoped that we will have funding with the hoped for WIFA loan to resolve this situation.

- Other factors
Please explain:

If the ACC grants authority to proceed with application for a WIFA loan, it is difficult to pin down the time when we will actually need additional revenue. An alternative might be to grant authority to make temporary surcharges as funding is required.

Attach additional pages as necessary.

COMPANY NAME: Parker Lakeview Est HOA, Inc	Test Year Ended: 10-30-2010
Name of System: Parker Springs	ADEQ Public Water System Number: 02045

AFFILIATE RELATIONSHIP

Please indicate a **yes** or **no** answer to the questions below and provide an explanation where necessary.

A parent-subsiary relationship, or affiliation, with another entity includes Corporations, Partnerships, Sole Proprietorship, Limited Liability Companies (LLCs), as well as common ownership of a water company and another entity, such as a development company or wastewater company.

Are any assets owned jointly with any affiliated or subsidiary entities?

YES NO

If Yes, please provide a description of each jointly owned asset, it's cost, and the percentage of the asset owned by the utility. (Please note the amounts reported on pages 12 and 15 should only include the percentage of plant owned by the utility.)

Were any of the assets constructed or acquired from an affiliated or subsidiary entity?

YES NO

If Yes, please identify the affiliated entity, the relationship with the utility, and a detailed listing of all transactions reflected in the Plant accounts. Also include detail for other balance sheet accounts, such as Advances, Contributions in Aid of Construction, inter-company payables and receivables, as well as affiliated revenues and expenses from the Company's Income Statement.

STATEMENTS IN SUPPORT OF RATE REQUEST

Complete the following statements in support of your rate request. Parker Lakeview Estates HOA, Inc.

dba Parker Springs Water Company (the "Company") requests an adjustment in the existing rates charged by the Company. The information contained in this application is based upon a twelve-month Test Year ending 10-31-2010 (mm/dd/yy). The Company had total operating revenues of \$ 16,433, served 41 metered and Ø un-metered customers, and sold 349,475 gallons of water during the Test Year.

The Company is requesting a(n) increase/decrease in revenues in the amount of \$ 7,380.

Total annual operating revenues, if the Company is granted the rate adjustment, will be \$ 24,725.

The Company is current on all property taxes. YES NO

The Company is current on all sales taxes. YES NO

The Company currently has a Curtailment Plan Tariff on file with the Commission YES NO

The Company currently has a Backflow Prevention Tariff on file with the Commission. YES NO

The Company notified its customers of its application for a rate adjustment on 01-27-11 (mm/dd/yy). **A COPY OF THE NOTICE WITH A NOTARIZED COVER LETTER STATING THE METHOD OF CUSTOMER NOTIFICATION, AS WELL AS THE DATE OF THE NOTIFICATION, MUST BE ATTACHED. (See page 32)**

By completing this application in support of the Company's request for a rate adjustment, the Company realizes that Original Cost Less Depreciation ("OCLD") plant information will be used to determine the fair value rate base, i.e., the Company waives the right to Reconstruction Cost New.

The utility company ownership is one of the following:

- Sole Proprietorship
- Partnership
- "C" Corporation
- "S" Corporation
- Limited Liability Company ("LLC")
- Association--Cooperative
- Other, please specify: _____

Note: If a corporation, please list stockholders and the respective number of shares owned below.

Stockholders	Number of Shares Owned
<i>N/A</i>	

I have read and completed this application, and to the best of my knowledge all of the information contained herein, and attached to this application, is true and correct.

Name of Authorized Representative (print): Gail Spain	Company Name: Parker Lakeview Estates HOA, Inc. dba Parker Springs Water Company
Title: Secretary/Treasurer	Address: HC1 Box 474
Signature: <i>Gail Spain</i>	City/ST/Zip: Elgin, AZ 85611
Date: January 27, 2011	Phone Number: 520 455-9345
E-mail Address: spain333@wildblue.net	Fax Number: 520 623-7022
Website Address:	

Questions regarding the WIFA application would be better directed to Victor Chacon, President, 520 623-3187, email vchacon5@cox.net

COMPANY NAME: Parker Lakeview Est HOA, Inc **Test Year Ended:** 10-30-2010

Name of System: Parker Springs **ADEQ Public Water System Number:** 02045

CURRENT AND PROPOSED RATES AND CHARGES

CUSTOMER CLASS: Residential Commercial Industrial
 Irrigation All Other, specify _____

CURRENT RATES

PROPOSED RATES

MINIMUM OR SERVICE CHARGES	\$ GALLONS	\$ GALLONS
5/8" x 3/4" Meter	33.50 for 0	48.50 for 0
3/4" Meter	36.00 for 0	51.00 for 0
1" Meter	83.00 for 0	98.00 for 0
1-1/2" Meter	165.00 for 0	165.00 for 0
2" Meter	270.00 for 0	270.00 for 0
3" Meter	535.00 for 0	535.00 for 0
4" Meter	840.00 for 0	840.00 for 0
6" Meter	1,070.00 for 0	1070.00 for 0

GALLONS IN EXCESS OF MINIMUM
Commodity Charge in Excess of Minimum (Charge Per 1,000 Gallons)
First Tier
Second Tier
Third Tier
FLAT RATE

Current Rates

Proposed Rates

per 1000 gal.

Rate	Gallons	Rate	Gallons
\$ 2.70	Up to 3000	\$ 2.70	Up to 3000
\$ 3.00	3001 to 8000	\$ 3.00	3001 to 8000
\$ 3.25	Over 8000	\$ 3.25	Over 8000
\$	Per Month	\$	Per Month

Note: If rates and charges vary across customer classes, duplicate the form and complete one for each rate class. (e.g., residential, commercial) unless "All" is checked.

attach tariff

COMPANY NAME: Parker Lakeview Est HOA, Inc	Test Year Ended: 10-30-2010
Name of System: Parker Springs	ADEQ Public Water System Number: 02045

CURRENT AND PROPOSED SERVICE CHARGES

CUSTOMER CLASS: Residential Commercial Industrial
 Irrigation All Other, specify _____

SERVICE LINE AND METER INSTALLATION CHARGES	CURRENT CHARGES	PROPOSED CHARGES
5/8" X 3/4" Meter	\$ 415 + 105 = 520	\$ 415 + 105 = 520
3/4" Meter	\$ 415 + 205 = 620	\$ 415 + 205 = 620
1" Meter	\$ 480 + 300 = 780	\$ 480 + 300 = 780
1-1/2" Meter	\$ 550 + 500 = 1050	\$ 550 + 500 = 1050
2" Meter	\$ actual cost	\$ actual cost
3" Meter	\$ ✓ ✓	\$ ✓ ✓
4" Meter	\$ ✓ ✓	\$ ✓ ✓
6" Meter	\$ ✓ ✓	\$ ✓ ✓

Establishment	\$ 30 ⁻	\$ 30 ⁻
Establishment (after hours)	\$ 40 ⁻	\$ 40 ⁻
Reconnection (delinquent)	\$ 30 ⁻	\$ 30 ⁻
Reconnection (delinquent) after hours	\$ 40 ⁻	\$ 40 ⁻
Meter Test	\$ 30 ⁻	\$ 30 ⁻
Deposit <i>Commission rule</i>	\$ AAC R14-2-403(B)	\$ same
Deposit Interest	6% per annum %	3% per annum %
Re-establishment (within 12 months) <i>rule</i>	\$ AAC R14-2-403(D)	\$ same
NSF Check	\$ 20 ⁰⁰	\$ 20 ⁰⁰
Deferred Payment	1.5 %	1.5 %
Meter Re-read	\$ 15 ⁰⁰	\$ 15 ⁰⁰
Late Fee	\$ 1.5% unpaid bal	\$ same

Note: If rates and charges vary across customer classes, duplicate the form and complete one for each rate class. (e.g., residential, commercial) unless "All" is checked.

PARKER SPRINGS WATER COMPANY

Current vs Proposed Tariff

Revised rate schedule ordered by the Corporation Commission Effective January 1, 2010

MONTHLY USAGE CHARGE

	Current	Proposed		Current	Proposed
5/8x3/4" Meter	\$ 33.50	\$ 48.50	2" Meter	\$ 270.00	\$ 270.00
3/4" Meter	\$ 36.00	\$ 51.00	3" Meter	\$ 535.00	\$ 535.00
1" Meter	\$ 83.00	\$ 98.00	4" Meter	\$ 840.00	\$ 840.00
1-1/2" Meter	\$165.00	\$ 165.00	6" Meter	\$1,070.00	\$ 1,070.00

Gallons included in minimum -0-

COMMODITY CHARGE

No Change Proposed

\$ Per 1,000 Gallons

5/8x3/4" Meter

0 gallons to 3,000 gallons	2.70	2.70
3,001 gallons to 8,000 gallons	3.00	3.00
Over 8,000 gallons	3.25	3.25

2" Meter

0 gallons to 40,000 gallons	3.00	3.00
Over 40,000 gallons	3.25	3.25

3/4" Meter

0 gallons to 3,000 gallons	2.70	2.70
3,001 gallons to 8,000 gallons	3.00	3.00
Over 8,000 gallons	3.25	3.25

3" Meter

0 gallons to 144,000 gallons	3.00	3.00
Over 144,000 gallons	3.25	3.25

1" Meter

0 gallons to 10,000 gallons	3.00	3.00
Over 10,000 gallons	3.25	3.25

4" Meter

0 gallons to 225,000 gallons	3.00	3.00
Over 225,000 gallons	3.25	3.25

1.5" Meter

0 gallons to 20,000 gallons	3.00	3.00
Over 20,000 gallons	3.25	3.25

6" Meter

0 gallons to 450,000 gallons	3.00	3.00
Over 450,000 gallons	3.25	3.25

Construction/Bulk per 1,000 gallons

3.25 3.25

-all gallons

SERVICE LINE AND METER INSTALLATIONS CHARGES

No Change Proposed

5/8x3/4" Meter \$	415.00	\$105.00	\$ 520.00	2" Meter	actual cost
3/4" Meter \$	415.00	\$205.00	\$ 620.00	3" Meter	actual cost
1" Meter \$	480.00	\$300.00	\$ 780.00	4" Meter	actual cost
1-1/2" Meter \$	550.00	\$500.00	\$ 1,050.00	6" Meter	actual cost

SERVICE CHARGES

(Subject to sales and use tax)

No Change Proposed

Establishment	\$ 30.00	(Billed with first water payment)
Establishment (After Hours)	\$ 40.00	
Reconnection (Delinquent)	\$ 30.00	
Reconnection (Delinquent After Hours)	\$ 40.00	
Meter Test (If Correct)	\$ 30.00	
Deposit	* see below	
Deposit Interest (per annum)	6%	
Reestablishment (within 12 months)	**see below	
NSF Check	\$ 20.00	
Deferred Payment (per month)	1.50%	
Meter Reread (if correct)	\$ 15.00	
Late Fee	*** see below	

Fire Sprinkler Charge

All sizes (4, 6, 8, 10" or larger) 2 percent of Monthly Minimum for a Comparable

Size Meter Connection, but no less than \$10,00 per month. The Service Charge for Fire Sprinklers is only applicable for service lines separate and distinct from the primary water service line.

*per Commission Rule AAC R14-2-403(B). Applicable only in certain circumstances.

**Number of months off system times the monthly minimum, per Commission Rule AAC R14-2-403(D)

***1.5 percent on the unpaid balance per month

DECISION NO. 71456 DOCKET NO. W-01835A-09-0226

COMPANY NAME: Parker Lakeview Est HOA, Inc

Test Year Ended: 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

Plant Additions and Retirements by Year

Acct. No.	Description	Year <u>2009</u>		Year <u>2010</u>	
		Additions	Retirements	Additions	Retirements
301	Organization				
302	Franchises				
303	Land & Land Rights				
304	Structures & Improvements				
307 ^{307.1}	Wells & Springs <i>Eng. Study</i>	6250.00		8750.00	
311	Pumping Equipment				
320	Water Treatment Equipment				
320.1	Water Treatment Plants				
320.2	Solution Chemical Feeders	1084.45			
330	Distribution Reservoirs & Standpipes				
330.1	Storage Tanks				
330.2	Pressure Tanks				
331	Transmission & Distrib. Mains				
333	Services				
334	Meters & Meter Installations	1515.38			
335	Hydrants				
336	Backflow Prevention Devices				
339	Other Plant & Misc. Equipment				
340	Office Furniture & Equipment				
340.1	Computers & Software				
341	Transportation Equipment				
343	Tools, Shop & Garage Equip.			281.53	
344	Laboratory Equipment				
345	Power Operated Equipment				
346	Communication Equipment				
347	Miscellaneous Equipment				
348	Other Tangible Plant				
	TOTAL WATER PLANT	8849.83	∅	9051.53	∅

Note: Enter all additions and retirements, by year, from the prior test year through the end of the current test year. Enter the totals for the additions and retirements for all intervening years on page 14, Columns B and C, respectively. Make copies of this page as needed.

COMPANY NAME Parker Lakeview Estates HOA, Inc. **Test Year Ended: 10-30-2010**

Name of System: Parker Springs

ADEQ Water System Number: 02045

Plant Summary

Acct. No.	DESCRIPTION	Plant in Service Per Prior Decision <i>Column A</i>	Total Additions <i>Column B</i>	Total Retirements <i>Column C</i>	Test Year End Total <i>Column D*</i>
301	Organization				
302	Franchises				
303	Land and Land Rights				
304	Structures and Improvements	243.00			243.00
307	Wells and Springs	4,500.00			4,500.00
307.1	Engineering Study		15,000.00		15,000.00
310	Power Generation Equipment	15,471.68			15,471.68
311	Electric Pumping Equipment	1,472.78			1,472.78
320	Water Treatment Equipment				
320.2	Solution Chemical Feeders		1,084.45		1,084.45
330	Distribution Reservoirs and Standpipes	1,958.00			1,958.00
330.1	Storage Tanks	3,387.49			3,387.49
330.2	Pressure Tanks				
331	Transmission and Distribution Mains	41,035.56			41,035.56
333	Services	9,047.50			9,047.50
334	Meters and Meter Installations	836.81	1,515.38		2,352.19
335	Hydrants				
336	Backflow Prevention Devices				
339	Other Plant and Misc. Equipment				
340	Office Furniture and Equipment				
340.1	Computers & Software				
341	Transportation Equipment				
343	Tools, Shop and Garage Equipment		281.53		281.53
344	Laboratory Equipment				
345	Power Operated Equipment				
346	Communication Equipment				
347	Miscellaneous Equipment				
348	Other Tangible Plant				
	TOTAL WATER PLANT	77,952.82	17,881.36		95,834.18

Note: Please refer to the checklist on page 1 for the required attachments related to this schedule
 *Column D = Column A + Column B - Column C

COMPANY NAME Parker Lakeview Estates HOA, Inc. **Test Year Ended:** 10-30-2010

Name of System: Parker Springs

ADEQ Water System Number: 02045

UTILITY PLANT IN SERVICE

Acct. No.	DESCRIPTION	Original Cost <i>Column A</i>	Accumulated Depreciation <i>Column B</i>	O.C.L.D. <i>Column C**</i>
301	Organization			
302	Franchises			
303	Land and Land Rights		N/A	
304	Structures and Improvements	243.00	243.00	0
307	Wells and Springs	4,500.00	4,500.00	0
307.1	Engineering Study	15,000.00	2,604.00	12,396.00
310	Power Generation Equipment	15,471.68	6,253.00	9,218.68
311	Electric Pumping Equipment	1,472.78	1,115.00	357.78
320	Water Treatment Equipment			
320.2	Solution Chemical Feeders	1,084.45	188.00	896.45
330	Distribution Reservoirs and Standpipes	1,958.00	1,958.00	0
330.1	Storage Tanks	3,387.49	395.00	2,992.49
330.2	Pressure Tanks			
331	Transmission and Distribution Mains	41,035.56	34,294.00	6,741.56
333	Services	9,047.50	2,054.00	6,993.50
334	Meters and Meter Installations	2,352.19	898.00	1,454.19
335	Hydrants			
336	Backflow Prevention Devices			
339	Other Plant and Misc. Equipment			
340	Office Furniture and Equipment			
340.1	Computers & Software			
341	Transportation Equipment			
343	Tools, Shop and Garage Equipment	281.53	14.00	269.53
344	Laboratory Equipment			
345	Power Operated Equipment			
346	Communication Equipment			
347	Miscellaneous Equipment			
348	Other Tangible Plant			
	TOTAL WATER PLANT	95,834.18	54,514.00	41,320.18

**Must be the same as the amount reported on page 20*

***Column C = Column A - Column B*

COMPANY NAME: Parker Lakeview Est HOA, Inc	Test Year Ended: 10-30-2010
Name of System: Parker Springs	ADEQ Public Water System Number: 02045

WATER COMPANY PLANT DESCRIPTION

WELLS

ADWR ID Number*	Pump Horsepower	Pump Yield (gpm)	Casing Depth (Feet)	Casing Diameter (Inches)	Meter Size (inches)	Year Drilled
55-621240	2 HP	10	125	12	5/8	1962

OTHER WATER SOURCES

Name or Description	Capacity (gpm)	Gallons Purchased or Obtained (in thousands)
none		

BOOSTER PUMPS		FIRE HYDRANTS	
Horsepower	Quantity	Quantity Standard	Quantity Other
none		none	

STORAGE TANKS		PRESSURE TANKS	
Capacity	Quantity	Capacity	Quantity
10,000 gal	1	none	

COMPANY NAME: Parker Lakeview Est HOA, Inc	Test Year Ended: 10-30-2010
Name of System: Parker Springs	ADEQ Public Water System Number: 02045

WATER COMPANY PLANT DESCRIPTION (CONTINUED)

MAINS

Size (in inches)	Material	Length (in feet)
2	PVC	2400
3		
4	PVC	2800
5		
6		
8		
10		
12		
2	galvanized	1436

CUSTOMER METERS

Size (in inches)	Quantity
5/8 X 3/4	41
3/4	
1	
1 1/2	
2	
Comp. 3	
Turbo 3	
Comp. 4	
Turbo 4	
Comp. 6	
Turbo 6	

For the following three items, list the utility owned assets in each category for each system.

TREATMENT EQUIPMENT:

230 V B/W Pump injects liquid chlorine during pumping operation

STRUCTURES:

12 x 20 metal shed housing electrical generators

OTHER:

2 G/NAN generators to provide electricity for pumping
 Timers and sensors to automate "Keep fill" pumping

COMPANY NAME: Parker Lakeview Est HOA, Inc	Test Year Ended: 10-30-2010
Name of System: Parker Springs	ADEQ Public Water System Number: 02045

WATER USE DATA SHEET BY MONTH FOR TEST YEAR

MONTH/YEAR	NUMBER OF CUSTOMERS	GALLONS SOLD (Thousands)	GALLONS PUMPED (Thousands)	GALLONS PURCHASED (Thousands)
JANUARY 2010	40	18.5	37.1	0
FEBRUARY 2010	40	19.4	27.1	
MARCH 2010	40	10.9	42.9	
APRIL 2010	40	25.9	46.9	
MAY 2010	41	33.4	49.5	
JUNE 2010	41	46.5	67.3	
JULY 2010	41	38.7	62.6	
AUGUST 2010	41	39.0	52.9	
SEPTEMBER 2010	41	29.1	41.7	
OCTOBER 2010	41	30.2	42.1	
NOVEMBER 2009	40	38.6	55.2	
DECEMBER 2009	40	19.3	46.9	
TOTALS →		* 349.5	** 572.2	0

What is the level of arsenic for each well on your system? 2,0030 mg/l
(If more than one well, please list each separately.)

If system has fire hydrants, what is the fire flow requirement? N/A GPM for hrs

If system has chlorination treatment, does this treatment system chlorinate continuously?
 Yes () No during pumping operation

Is the Water Utility located in an ADWR Active Management Area (AMA)?
() Yes (X) No

Does the Company have an ADWR Gallons Per Capita Per Day (GPCPD) requirement?
() Yes (X) No

If yes, provide the GPCPD amount: _____

Note: If you are filing for more than one system, please provide separate data sheets for each system. For explanation of any of the above, please contact Engineering at 602-542-7277.

* This number must be equal to the number entered on Page 6, "sold gallons."
** Gallons pumped cannot equal or be less than the gallons sold

COMPANY NAME: Parker Lakeview Est HOA, Inc	Test Year Ended: 10-30-2010
Name of System: Parker Springs	ADEQ Public Water System Number: 02045

COMPARATIVE STATEMENT OF INCOME AND EXPENSE

Acct. No.	OPERATING REVENUES	PRIOR YEAR	TEST YEAR
		2008-09	2009-10
461	Metered Water Revenue	\$ 13,622	\$ 16,375
460	Unmetered Water Revenue		
474	Other Water Revenues	216	58
	TOTAL OPERATING REVENUES	\$ 13,838	\$ 16,433 *
	OPERATING EXPENSES		
601	Salaries and Wages (See page 1, item 4)	\$	\$
610	Purchased Water (See page 1, item 5)		
615 616	Purchased Power (See page 1, item 6) Fuel	2509	3119
618	Chemicals		70
620	Repairs and Maintenance (See page 1, item 8)	321	566
621	Office Supplies and Expense	665	397
630	Outside Services (See page 1, item 9)	6515	6044
635	Water Testing (See page 1, item 10)	789	1154
641	Rents	2600	224
650	Transportation Expenses	81	54
657	Insurance - General Liability		
659	Insurance - Health and Life		
666	Regulatory Commission Expense - Rate Case		
675	Miscellaneous Expense	8	(24)
403	Depreciation Expense (From page 20)	2446	4728
408	Taxes Other Than Income	16	50
408.11	Property Taxes (See page 1, item 10)	346	340
409	Income Tax		
	TOTAL OPERATING EXPENSES	\$ 13,956	\$ 16,722
	OPERATING INCOME/(LOSS)	\$ (118)	\$ (289)
	OTHER INCOME/(EXPENSE)		
419	Interest and Dividend Income	\$	\$ 1
421	Non-Utility Income (Grant WIFA)		15,000
426	Miscellaneous Non-Utility Expenses		
427	Interest Expense		
	TOTAL OTHER INCOME/(EXPENSE)	\$	\$ 15,001
	NET INCOME/(LOSS)	\$ (118)	\$ 14,712

Note: Do not include sales tax in revenue or expense. Please refer to the checklist on page 1 for the required attachments related to this schedule.

** This number must be identical to the number entered on page 6 "total operating revenues."*

COMPANY NAME: Parker Lakeview Est HOA, Inc

Test Year Ended: 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number:

02045

CALCULATION OF DEPRECIATION EXPENSE

Acct. No..	Description	Original Cost	Depreciation Percentage	Depreciation Expense
		<i>Column A**</i>	<i>Column B</i>	<i>Column C*</i>
301	Organization			
302	Franchises			
303	Land & Land Rights		N/A	
304	Structures & Improvements	243 -	3.33	8
307	Wells & Springs	15,000 -	20	2517
	Eng Study	4,500 -	3.33	150
311	Pumping Equipment	15,471.68	5.00	774
	Power Gen. Equip	1,472.78	12.5	184
320	Water Treatment Equipment			
320.1	Water Treatment Plants			
320.2	Solution Chemical Feeders	1,084.45	20	182
330	Distribution Reservoirs & Standpipes	1,958 -		
330.1	Storage Tanks	3,387.49	5	169
330.2	Pressure Tanks			
331	Transmission & Distrib. Mains	41,035.56	2	489
333	Services	9,047.50	3.33	281
334	Meters & Meter Installations	2,352.19	8.33	139
335	Hydrants			
336	Backflow Prevention Devices			
339	Other Plant & Misc. Equipment			
340	Office Furniture & Equipment			
340.1	Computers & Software			
341	Transportation Equipment			
343	Tools, Shop & Garage Equip.	81.53	5	12
344	Laboratory Equipment			
345	Power Operated Equipment			
346	Communication Equipment			
347	Miscellaneous Equipment			
348	Other Tangible Plant			
	TOTAL WATER PLANT	95,834.18		4728

* Column C = Column A x Column B

**Must be the same as the amount reported on page 15, column A.

COMPANY NAME: Parker Lakeview Est HOA, Inc	Test Year Ended: 10-30-2010
Name of System: Parker Springs	ADEQ Public Water System Number: 02045

BALANCE SHEET

Acct. No.	ASSETS	BALANCE AT BEGINNING OF TEST YEAR	BALANCE AT END OF TEST YEAR
	CURRENT AND ACCRUED ASSETS		
131	Cash	\$ 2182	\$ 2939
134	Working Funds		
135	Temporary Cash Investments		1151
141	Customer Accounts Receivable	234	151
146	Notes/Receivables from Associated Companies		
151	Plant Material and Supplies	905	801
162	Prepayments		600
174	Miscellaneous Current and Accrued Assets		
	TOTAL CURRENT AND ACCRUED ASSETS	\$ 3321	\$ 5642
	FIXED ASSETS		
101	Utility Plant in Service	\$ 78,472	\$ 95,834 *
103	Property Held for Future Use		
105	Construction Work in Progress		
108	Accumulated Depreciation – Utility Plant ("AD-UP")	(49,613)	(\$54,514)**
121	Non-Utility Property		
122	Accumulated Depreciation – Non Utility ("AD-NU")		(\$)
	TOTAL FIXED ASSETS	\$ 28,859	\$ 41,320
	TOTAL ASSETS	\$ 32,180	\$ 46,962

Note: Total Assets on this page should equal the sum of Total Liabilities and Total Capital on page 22. Also, numbers in parentheses should be subtracted. For example, Accounts 108 and 122 should be subtracted from Total Fixed Assets.

** Must equal page 15, original cost*

*** Must equal page 15, accumulated depreciation*

COMPANY NAME: Parker Lakeview Est HOA, Inc

Test Year Ended: 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

BALANCE SHEET (CONTINUED)

	LIABILITIES	BALANCE AT BEGINNING OF TEST YEAR	BALANCE AT END OF TEST YEAR
	CURRENT LIABILITES		
231	Accounts Payable	\$ 1498	\$ 1831
232	Notes Payable (Current Portion)		
234	Notes/Accounts Payable to Associated Companies		
235	Customer Deposits	140	160
236	Accrued Taxes		
237	Accrued Interest		
241	Miscellaneous Current and Accrued Liabilities		
	TOTAL CURRENT LIABILITIES	\$ 1638	\$ 1991
	LONG-TERM DEBT (Over 12 Months)		
224	Long-Term Notes and Bonds	\$	\$
	DEFERRED CREDITS		
251	Unamortized Premium on Debt	\$	\$
252	Advances in Aid of Construction	1470	\$ 1190 *
255	Accumulated Deferred Investment Tax Credits		
271	Gross Contributions in Aid of Construction		\$ **
272	Less: Amortization of Contributions		(\$)
281	Accumulated Deferred Income Tax		
	TOTAL DEFERRED CREDITS	\$ 1470	\$ 1190
	TOTAL LIABILITIES	\$ 3108	\$ 3181
	CAPITAL ACCOUNTS		
201	Common Stock Issued	\$	\$
211	Paid in Capital in Excess of Par Value	7920	7920
215	Retained Earnings	21,152	35,861
218	Proprietary Capital (Sole Props and Partnerships)		
	TOTAL CAPITAL	\$ 29,072	\$ 43,781
	TOTAL LIABILITIES AND CAPITAL	\$ 32,180	\$ 46,962

Note: Account 272 should be subtracted from Total Deferred Credits.

** Must equal page 24, Total Advances in Aid of Construction*

*** Must equal page 25, Total Contributions in Aid of Construction*

COMPANY NAME: Parker Lakeview Est HOA, Inc	Test Year Ended: 10-30-2010
Name of System: Parker Springs	ADEQ Public Water System Number: 02045

SUPPLEMENTAL FINANCIAL DATA
Long-Term Debt¹

	LOAN #1*	LOAN #2*	LOAN #3*	LOAN #4*
Date Issued				
Source of Loan				
Reason for Loan				
Dollar Amount Issued	\$	\$	\$	\$
Net Proceeds	\$	\$	\$	\$
Amount Outstanding	\$	\$	\$	\$
Date of Maturity				
Interest Rate				
Current Year Interest	\$	\$	\$	\$
Current Year Principal	\$	\$	\$	\$
Authority Granted By ACC Decision No.				

A.R.S. 40-301 requires ACC approval of long-term debt. If the Commission has not approved any of the above loans, then please submit an application requesting approval of the above loans.

Meter Deposit Balance – Test Year	\$	<u>945⁰⁰</u>
Meter Deposits Refunded During the Test Year	\$	<u>245⁰⁰</u>

Currently, no loans

¹List all bonds, notes, loans, and other types of indebtedness in which the proceeds were used in the provision of public utility service. Indebtedness incurred for personal uses by the owner of the utility should not be listed.

COMPANY NAME: Parker Lakeview Est HOA, Inc	Test Year Ended: 10-30-2010
Name of System: Parker Springs	ADEQ Public Water System Number: 02045

GROSS CONTRIBUTIONS IN AID OF CONSTRUCTION (Acct. 271)³

Balance Per Prior Decision	N/A	\$ N/A
Additions Year	\$	
Total Additions	N/A	\$
Balance at Test Year End	N/A	\$ N/A *

Note: Prior Decision refers to the balances per the prior Staff Report as adjusted per the final Commission Decision.

** Balance at Test Year End = Balance Per Prior Decision + Total Additions (cross reference this to the Balance Sheet on page 22)*

³ Contributions in Aid of Construction refers to the following:

- (1) Non-refundable money, services, or property received for use in the provision of utility service from any source that is provided at no cost and interest free.
- (2) Unrefunded balances of expired advance contracts reclassified from Advances in Aid of Construction.

Company Name: Parker Lakeview Est HOA, Inc	Test Year Ended: 10-30-2010
Meter Size: 5/8 x 3/4	1 st Quarter Ended: 1-31-2010

BILL COUNT WORKSHEET 1ST QUARTER

GALLONAGE RANGE	NUMBER OF BILLS	TOTAL BILLS FOR 1 ST QUARTER
- 0 -	34	
1 to 1,000	70	
1,001 to 2,000	5	
2,001 to 3,000	4	
3,001 to 4,000	4	
4,001 to 5,000		
5,001 to 6,000	2	
6,001 to 7,000		
7,001 to 8,000		
8,001 to 9,000	1	
9,001 to 10,000		
10,001 to 12,000		
12,001 to 14,000		
14,001 to 16,000		
16,001 to 18,000		
18,001 to 20,000		
20,001 to 25,000		
25,001 to 30,000		
30,001 to 35,000		
35,001 to 40,000		
40,001 to 50,000		
50,001 to 60,000		
60,001 to 70,000		
70,001 to 80,000		
80,001 to 90,000		
90,001 to 100,000		
Over 100,000 (List actual gallons, e.g., 120,000)		
Total Bills	120	120

Company Name:	Parker Lakeview Est HOA, Inc	Test Year Ended:	10-30-2010
Meter Size:	5/8 X 3/4	2 nd Quarter Ended:	4-30-2010

BILL COUNT WORKSHEET 2ND QUARTER

GALLONAGE RANGE	NUMBER OF BILLS	TOTAL BILLS FOR 2 nd QUARTER
- 0 -	41	
1 to 1,000	61	
1,001 to 2,000	13	
2,001 to 3,000	1	
3,001 to 4,000	2	
4,001 to 5,000	2	
5,001 to 6,000		
6,001 to 7,000		
7,001 to 8,000		
8,001 to 9,000		
9,001 to 10,000		
10,001 to 12,000		
12,001 to 14,000		
14,001 to 16,000		
16,001 to 18,000		
18,001 to 20,000		
20,001 to 25,000		
25,001 to 30,000		
30,001 to 35,000		
35,001 to 40,000		
40,001 to 50,000		
50,001 to 60,000		
60,001 to 70,000		
70,001 to 80,000		
80,001 to 90,000		
90,001 to 100,000		
Over 100,000 (List actual gallons, e.g., 120,000)		
Total Bills		120

Company Name: Parker Lakeview Est HOA, Inc	Test Year Ended: 10-30-2010
Meter Size: 5/8 x 3/4	3 rd Quarter Ended: 7-31-2010

BILL COUNT WORKSHEET 3RD QUARTER

GALLONAGE RANGE	NUMBER OF BILLS	TOTAL BILLS FOR 3 rd QUARTER
- 0 -	22	
1 to 1,000	72	
1,001 to 2,000	13	
2,001 to 3,000	4	
3,001 to 4,000	3	
4,001 to 5,000	4	
5,001 to 6,000	1	
6,001 to 7,000	2	
7,001 to 8,000		
8,001 to 9,000	1	
9,001 to 10,000		
10,001 to 12,000	1	
12,001 to 14,000		
14,001 to 16,000		
16,001 to 18,000		
18,001 to 20,000		
20,001 to 25,000		
25,001 to 30,000		
30,001 to 35,000		
35,001 to 40,000		
40,001 to 50,000		
50,001 to 60,000		
60,001 to 70,000		
70,001 to 80,000		
80,001 to 90,000		
90,001 to 100,000		
Over 100,000 (List actual gallons, e.g., 120,000)		
Total Bills		123

Company Name:	Parker Lakeview Est HOA, Inc	Test Year Ended:	10-30-2010
Meter Size:	5/8 x 3/4	4 th Quarter Ended:	10-31-2010

BILL COUNT WORKSHEET 4TH QUARTER

GALLONAGE RANGE	NUMBER OF BILLS	TOTAL BILLS FOR 4 th QUARTER
- 0 -	29	
1 to 1,000	68	
1,001 to 2,000	11	
2,001 to 3,000	6	
3,001 to 4,000	5	
4,001 to 5,000	2	
5,001 to 6,000		
6,001 to 7,000	1	
7,001 to 8,000		
8,001 to 9,000		
9,001 to 10,000		
10,001 to 12,000		
12,001 to 14,000	1	
14,001 to 16,000		
16,001 to 18,000		
18,001 to 20,000		
20,001 to 25,000		
25,001 to 30,000		
30,001 to 35,000		
35,001 to 40,000		
40,001 to 50,000		
50,001 to 60,000		
60,001 to 70,000		
70,001 to 80,000		
80,001 to 90,000		
90,001 to 100,000		
Over 100,000 (List actual gallons, e.g., 120,000)		
Total Bills		123

Company Name: Parker Lakeview Est HOA, Inc	Test Year Ended: 10-30-2010
Meter Size: 5/8 x 3/4	

BILL COUNT SUMMARY

	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	Total
- 0 -	34	41	22	29	126
1 to 1,000	70	61	72	68	271
1,001 to 2,000	5	13	13	11	42
2,001 to 3,000	4	1	4	6	15
3,001 to 4,000	4	2	3	5	14
4,001 to 5,000	.	2	4	2	8
5,001 to 6,000	2		1		3
6,001 to 7,000			2	1	3
7,001 to 8,000					
8,001 to 9,000	1		1		2
9,001 to 10,000					
10,001 to 12,000			1		1
12,001 to 14,000				1	1
14,001 to 16,000					
16,001 to 18,000					
18,001 to 20,000					
20,001 to 25,000					
25,001 to 30,000					
30,001 to 35,000					
35,001 to 40,000					
40,001 to 50,000					
50,001 to 60,000					
60,001 to 70,000					
70,001 to 80,000					
80,001 to 90,000					
90,001 to 100,000					
Over 100,000 (List actual gallons, e.g., 120,000)					
Total Bills	120	120	123	123	486

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

Package Attachments

Original & ~~43~~ copies

15

ITEM 1

ADEQ compliance status report

ITEM 2

ADOR Certificate of Compliance

ITEM 3

ADEQ MAP annual sampling fee invoice

ITEM 4

Invoices for plant asset purchases >\$150

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

TO: Arizona Department of Environmental Quality
Drinking Water Compliance Enforcement Unit
1110 West Washington Avenue, 5th Floor
Phoenix, Arizona 85007
Phone: 602-771-4624
Fax: 602-771-4505

DATE: 11-2-2010

ENTERED DEC 13 2010

FROM: Water Company:
Mailing Address:
City, State, Zip Code:
Phone Number:
FAX:

Parker Lakeview Estates HOA, Inc (Parker Springs Water)
HCI Box 474
Elgin, AZ 85611
520 455-9345
N/A

Please return completed request to ACC Utilities Engineering (FAX 602-542-0766) and to the Company at address listed above within 30 days.

Compliance Status Report

PWS Name: Parker Lakeview Estates

PWS ID #: 02-045

Overall Compliance Status: [] No Major Deficiencies [] Major Deficiencies
Comments:

Monitoring and Reporting Deficiencies: [] No Deficiencies [] Major Deficiencies
List deficiencies:

Operation and Maintenance Deficiencies: [] No Deficiencies [] Major Deficiencies
Date of last inspection / sanitary survey:

Major Operation and Maintenance Deficiencies cited during inspection
[] None [] unable to maintain 20 psi [] inadequate storage
[] cross connection/backflow problems [] surface water treatment rule
[] treatment deficiencies [] approval of construction
[] certified operator [] other

Comments:

Administrative Orders:
Is ADEQ administrative order in effect? [] Yes [] No
Is US EPA administrative order in effect? [] Yes [] No
Comments:

System Information:
Number of Points of Entry _____ Population Served _____ Connections Served _____

DWCE Evaluation completed by: _____

Phone: _____ Date: _____

Based on data submitted by the water system, ADEQ has determined that this system is currently delivering water that (meets/does not meet) water quality standards required by Arizona Administrative Code, Title 18, Chapter 4. This compliance status report does not guarantee the water quality for this system in the future. This compliance status report does not reflect the status of any other water system owned by this utility company.

ITEM 1
ADEQ Compliance Status Report

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
NOV - 5 2010
WATER QUALITY COMPLIANCE SECTION

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

**Arizona Department of Environmental Quality
Drinking Water Monitoring and Protection Unit
Mail Code 5415B-2
1110 West Washington Street
Phoenix, AZ 85007**

Drinking Water Compliance Status Report

System Name PARKER LAKEVIEW ESTATES	System Type <input type="checkbox"/> Community <input type="checkbox"/> Non-transient Non-community <input checked="" type="checkbox"/> Transient Non-community	Is system consecutive? <input type="checkbox"/> Yes, to PWS # <input checked="" type="checkbox"/> No
System ID # 02045		

Overall compliance status	<input checked="" type="checkbox"/> No major deficiencies	<input type="checkbox"/> Major deficiencies
Monitoring and Reporting status	<input checked="" type="checkbox"/> No major deficiencies	<input type="checkbox"/> Major deficiencies
Comments: None		

Operation and Maintenance status	<input checked="" type="checkbox"/> No major deficiencies	<input type="checkbox"/> Major deficiencies
Date of last Sanitary Survey	2-3-10	Inspector
		John Eyre, SRO
Major unresolved/ongoing operation and maintenance deficiencies:		
<input type="checkbox"/> unable to maintain 20psi	<input type="checkbox"/> cross connection/backflow problems	<input type="checkbox"/> inadequate storage
<input type="checkbox"/> treatment deficiencies	<input type="checkbox"/> certified operator	<input type="checkbox"/> surface water treatment rule
		<input type="checkbox"/> ATC/AOC
		<input type="checkbox"/> other =
Comments: None		

Is an ADEQ administrative order in effect?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Comments: None		

System Information	
Population Served	54
Service Connections	38
Number of Entry Points to the Distribution System	1
Number of Sources	1
Initial Monitoring Year	2007
Monitoring Assistance Program (MAP) System	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Evaluation completed by	Donna Calderon, Manager  Drinking Water Monitoring and Protection Unit		
Phone	602-771-4641	Date	December 16, 2010
<input checked="" type="checkbox"/>	Based upon data submitted by the water system, ADEQ has determined that this system is currently delivering water that meets water quality standards required by 40 CFR 141/Arizona Administrative Code, Title 18, Chapter 4, and PWS is in compliance.		
<input type="checkbox"/>	Based upon the monitoring and reporting deficiencies noted above, ADEQ cannot determine if this system is currently delivering water that meets water quality standards required by 40 CFR 141/Arizona Administrative Code, Title 18, Chapter 4, and/or PWS is not in compliance.		
<input type="checkbox"/>	Based upon the operation and maintenance deficiencies noted above, ADEQ cannot determine if this system is currently delivering water that meets water quality standards required by 40 CFR 141/Arizona Administrative Code, Title 18, Chapter 4, and/or PWS is not in compliance.		

This compliance status report does not guarantee the water quality for this system in the future, and does not reflect the status of any other water system owned by this utility company.

Revised March 2009

ITEM 1
ADEQ Compliance Status Report

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

Certificate of Compliance Letter of Good Standing

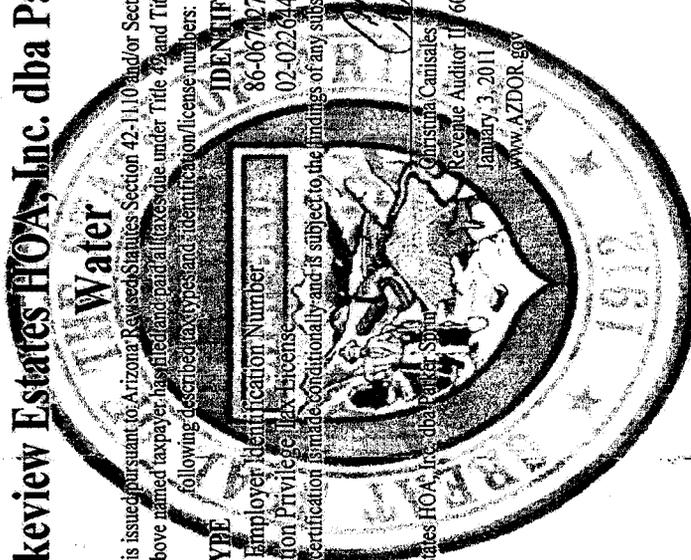
Parker Lakeview Estates HOA, Inc. dba Parker Spring

This Certificate of Compliance is issued pursuant to Arizona Revised Statutes Section 42-1110 and/or Section 43-1151. It certifies that, according to department records, the above named taxpayer has filed and paid all taxes due under Title 42 and Title 43, specifically and only as to the following described tax types and identification/license numbers:

TAX TYPE IDENTIFICATION

Federal Employer Identification Number: 86-0674275
Transaction Privilege Tax License: 02-022644-B

This certification is made conditionally and is subject to the findings of any subsequent audit.



Christina Canisales

Christina Canisales
Revenue Auditor II 602-716-6234
January 3, 2011
www.AZDOR.gov

Issued To:
Parker Lakeview Estates HOA, Inc dba
Attn: Gail Spain
HC 1 BOX 474
Elgin, AZ 85611

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
MONITORING ASSISTANCE PROGRAM
ANNUAL SAMPLING FEE INVOICE

* Pursuant to A.R.S. § 49-113, interest will be charged if full payment is not received by the specified due date. If you dispute the amount listed, please contact ADEQ as soon as possible. To reduce interest costs on an unpaid invoice, you may remit an amount that you believe is not in dispute. However, if nonpayment is due to willful neglect, you may suffer an additional five percent penalty of up to twenty-five percent of the amount due for each month or fraction of a month the amount is past due.

If you have any questions about your invoice, contact W. Scott Steinhagen at (602) 771-4445 or toll-free within Arizona at (800) 234-5677, extension 771-4445.

Pursuant to A.R.S. § 49-360 F and A.A.C. R18-4-224 through R18-4-226, "The director shall establish fees for the monitoring assistance program to be collected from all public water systems..."

Owner Id #: 7451	Invoice Number 66011
To: PARKER LAKE VIEW ESTATES HOME HC 1 BOX 474 ELGIN AZ 85611	Public Water System ID #: 02045
<i># 2328 11/12/09</i>	Billing for Calendar Year: 2010
	Due Date: December 11, 2009
	Total Amount Due \$ 352 ⁸⁰ 347.66
	Amount Paid \$ 352 ⁸⁰

↑ Keep the top portion for your records. ↑

ADEQ Federal Tax #866004791

ITEM 3
635 Testing MAP

\$352.80

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

Capital Purchases

307.1 WIFA Engineering Study 2009	\$6250
307.1 WIFA Engineering Study 2010	\$8750
320.2 Solution Chemical Feeder	\$1084.45
334 Meters & Meter Installations	\$1515.38
341 Tools	\$ 281.53

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

WestLand Resources, Inc.
Engineering and Environmental Consultants
4001 East Paradise Falls Dr. Tucson, AZ 85712
Phone: 520.206.9565/Fax 520.206.9518
www.WestLandResources.com

Invoice To: Parker Springs Water Company
HCI Box 474

Elgin, AZ 85611
Attention: Victor Chacon

Project Name: Parker Springs Water Co. Water System Analysis

WRI Project No.: 1638.01

Invoice Amount: \$ 2,000.00

Invoice Date: October 26, 2009

Invoice Number: 163801001

Period Ending: 9/25/2009

Payment Terms: Due Upon Receipt

Water System Analysis -

Prepare water system map. Prepare hydraulic model. Coordination for water system sampling and prepare for site visit.

Contract Amount:	\$8,000.00
Percent Complete:	25.00%
Fee Earned:	\$2,000.00
Prior Fee Billings:	\$0.00

Billing Group Subtotal \$2,000.00

Billing Group Total \$2,000.00

Total This Billing: \$2,000.00

Submitted By: _____



307.1 Engineering Study – WIFA Grant 2009 Westland Resources Inc.

2 Invoices totaling \$6250.00

Amortizing at 20%/year

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

WestLand Resources, Inc.
Engineering and Environmental Consultants
4001 East Paradise Falls Dr. Tucson, AZ 85712
Phone: 520.206.9685/Fax 520.206.9518
www.WestLandResources.com

Invoice To: Parker Springs Water Company
HCI Box 474
Elgin, AZ 85611
Attention: Victor Chacon

Invoice Amount: \$ 4,250.00

Invoice Date: November 23, 2009
Invoice Number: 163801002
Period Ending: 10/30/2009
Payment Terms: Due Upon Receipt

Project Name: Parker Springs Water Co. Water System Analysis

WRI Project No.: 1638.01

Water System Analysis -

Coordination for MPA sampling and pickup equipment from the lab. Site visit for system survey and sampling. Review the hydraulic model and begin draft report.

Contract Amount: \$8,000.00
Percent Complete: 65.00%
Fee Earned: \$5,200.00
Prior Fee Billings: \$2,000.00

Billing Group Subtotal \$3,200.00

Billing Group Total \$3,200.00

Coordination with Basin Wells and Parker Springs Water Company for location of new well; review septic tank locations and coordination regarding well equipment and well sites.

Contract Amount: \$7,000.00
Percent Complete: 15.00%
Fee Earned: \$1,050.00
Prior Fee Billings: \$0.00

Billing Group Subtotal \$1,050.00

Billing Group Total \$1,050.00

Total This Billing: \$4,250.00

1009
12/29/09

WIFA

Capital 301

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

Phone: 520.206.9585/Fax 520.206.9518
www.WestLandResources.com

Invoice To: Parker Springs Water Company
HCI Box 474

Invoice Amount: \$ 8,000.00

Invoice Date: February 17, 2010

Invoice Number: 163801004

Period Ending: 2/12/2010

Payment Terms: Due Upon Receipt

Elgin, AZ 85611
Attention: Victor Chacon

Project Name: Parker Springs Water Co. Water System Analysis

WRI Project No.: 1638.01

Bill Group A: Water System Analysis

Draft project summary report.

Contract Amount:	\$8,000.00
Percent Complete:	95.00%
Fee Earned:	\$7,600.00
Prior Fee Billings:	\$5,200.00

Billing Group Subtotal \$2,400.00

Billing Group Total \$2,400.00

Bill Group B: Hydrology Analysis

Coordination with Basin Wells for hydrologic analysis report. Prepare well site layouts.

Contract Amount:	\$7,000.00
Percent Complete:	95.00%
Fee Earned:	\$6,650.00
Prior Fee Billings:	\$1,050.00

Billing Group Subtotal \$5,600.00

Billing Group Total \$5,600.00

Total This Billing: \$8,000.00

KODal

622
4/6/10

307.1 Engineering Study – WIFA Grant 2010 Westland Resources Inc.

2 Invoices totaling \$8750.00

Amortizing at 20%/year

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

4001 East Paradise Falls Dr. Tucson, AZ 85712
Phone: 520.206.9585/Fax 520.206.9518
www.WestLandResources.com

Invoice To: Parker Springs Water Company
HCI Box 474
Elgin, AZ 85611
Attention: Victor Chacon

Invoice Amount: \$ 750.00
Invoice Date: March 19, 2010
Invoice Number: 163801005
Period Ending: 3/12/2010
Payment Terms: Due Upon Receipt

Project Name: Parker Springs Water Co. Water System Analysis

WRI Project No.: 1638.01

Bill Group A: Water System Analysis

Complete and submit Water System Analysis report.

Contract Amount: \$8,000.00
Percent Complete: 100.00%
Fee Earned: \$8,000.00
Prior Fee Billings: \$7,600.00

Billing Group Subtotal \$400.00

Billing Group Total \$400.00

Bill Group B: Hydrology Analysis

Complete and submit Hydrology Analysis report.

Contract Amount: \$7,000.00
Percent Complete: 100.00%
Fee Earned: \$7,000.00
Prior Fee Billings: \$6,650.00

Billing Group Subtotal \$350.00

Billing Group Total \$350.00



Total This Billing: \$750.00

#024
4/17/10

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



INVOICE

Invoice No. 010010

**Howard E. Hutching
Company Inc.**

CHEMICAL METERING EQUIPMENT

**7190 PENRYN PLAZA P.O. BOX 249 PENRYN, CA 95663
(916) 663-1371**

S
O
L
D
T
O

Patrick Spain
ACCOUNTS PAYABLE
H C1 Box 472
Elgin, AZ 85611

S
H
I
P
T
O

Patrick Spain
C/O Parker Canyon Lake
9012 Monte Zuma Place
Elgin, AZ 85611

P. O. Number PATRICK	Salesman No. 20	Ship Date 10/19/09	Order No. 009830
Customer No. LP9287	Ship Via UPS	Terms Credit Card	Invoice Date 10/19/09

QTY	SHR	B/O	ITEM NO.	DESCRIPTION	PRICE	TOTAL
1	1	0	C-15N122X	230V R/W Pump S/N: HW1475 Bill To Credit Card Patrick Spain	370.57	\$370.57

SUBTOTAL \$370.57

TAX \$.00

LABOR \$.00

FREIGHT \$14.94

TOTAL AMT DUE \$385.51

Fax Phone No. (916)663-1497

LATE CHARGES OF 1½% PER MONTH OR 18% PER YEAR WILL BE ADDED TO PAST DUE ACCOUNTS.

Capital 320.2

320.2 Solution Chemical Feeder

Detail Summary: Pump \$385.51, Tank \$412.27, Wiring, supplies \$136.67, Labor \$150

Total

\$1084.45

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

USABlueBook



Remit to:
P.O. Box 9004
Gurnee, IL 60031-9004

TEL: (847) 689-9781
FAX: (847) 689-3001
TOLL FREE: 1-800-493-9876
F.E.I.N.: 36-3645787

INVOICE

INVOICE NO.	PAGE NO.
939732	1 of 1
CUSTOMER NO.	DATE
705718	11/18/09

BILL TO:
705718
PARKER SPRINGS WATER COMPANY

HC1 BOX 474
ELGIN AZ, 85611-9739

SHIP TO:
1
PARKER SPRINGS WATER COMPANY
*** THIS ADDRESS UPS ONLY ***
9012 W MONTEZUMA PL
ELGIN, AZ 85611
ATTN GAIL SPAIN

PER GAIL	11/18/09	CHH	MASTER CARD	AZ	709266	01	PREPAID	UPS
14141	Heavy Duty Measuring Container 2.5 Quart with Spout	1	1	0	EA	18.49	EA	18.49
CA	CR Released	1	1	0	EA	.00	EA	.00
PACK	New Customer	1	1	0	EA	.00	EA	.00
61122	LMI Solution Tank 35 Gallon Flooded Suction STORING CHLORINE AND WATER	1	1	0	EA	304.00	EA	304.00
PAID IN FULL BY CREDIT CARD								

THANK YOU for your business!
1.5% MONTHLY FINANCE CHARGE
ON AMOUNTS 30 DAYS PAST DUE
Discounts Apply to Merchandise Only

MERCHANDISE	MISCELLANEOUS	DISCOUNT	TAX	FREIGHT	TOTAL
322.49	.00	.00	18.06	71.72	412.27

Should it become necessary to refer your unpaid balance to a collection agency, a collection fee, not to exceed 25% of the balance referred; plus reasonable attorney's fees; and court costs when necessary, will be added to the balance due.

Please Detach and Return Bottom Portion to Insure Proper Credit to Your Account.

******IMPORTANT******
Please include this customer #
on the face of your remittance check. ➡

CUSTOMER NO.	INVOICE NO.	DATE	TOTAL
705718	939732	11/18/09	412.27

USABlueBook

REMIT TO: USABlueBook, P.O. Box 9004, Gurnee, IL 60031-9004

Capital 320.2

320.2 Solution Chemical Feeder

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



LOWE'S HIN, INC.
3700 MARTIN LUTHER KING PA
SIERRA VISTA, AZ 85635
(520) 439-3640

*PCL
Chlorine*

SALES #: S2663LC1 1407817 10-26-09

206566	CARTRIDGE FUSE 15A, 25A	2.27
22230	1" GALV TEE	2.33
47397	1/2 SCREW IN CONN 1 BAG	3.10
	5 @ 0.62	
21870	1" X 1/2" GALV BUSHING	1.54
95550	30 AMP FUSED A/C DISCON	9.97
69860	1/2" X 25' MET LQD TIGHT C	18.56

SUBTOTAL: 136.54

TAX: 10.72

INVOICE 23309 TOTAL: 147.26

BALANCE DUE: 147.26

M/C: 147.26

PCL = 40.73

M/C XXXXXXXXXXXX5023 04919P
AMOUNT: 147.26

[Signature]

2863 TERMINAL: 23 10/26/09-12:36:43

OF ITEMS PURCHASED: 11
EXCLUDES FEES, SERVICES AND SPECIAL ORDER ITEMS

*PCL
Chlorine*

THANK YOU FOR SHOPPING AT ACE
ACE HARDWARE #420
(520) 747-9473

ACE HARDWARE STORES
YOUR Neighborhood Hardware Store!

11/02/09 10:51AM CRYSTAL 558 SALE

30239 30 FT .89 FT
WIRE 14/3-NWNG 250' 26.70

SUB-TOTAL: 26.70 TAX: 2.16
TOTAL: 28.86
BC AMT: \$28.86

BK CARD#: XXXXXXXXXXXX3023
ID: 670120042099
AUTH: 04199P
Host reference #:349215 Bat#200
SWIPED
CARD TYPE: MASTERCARD EXPR: XXXX

==> JRNLD49215 <<==
CUST # 45
ACE REWARDS ID # 1970006501

THANK YOU PATRICK SPAIN
FOR YOUR PATRONAGE

Name: X

I agree to pay above total amount
according to card issuer agreement
(merchant agreement if credit voucher)

This receipt REQUIRED for refund
2 WEEK Wait if Paid by CHECK

Capital 320.2

320.2 Solution Chemical Feeder

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

THE HOME DEPOT 0443
 3500 AVENIDA COCHISE
 SIERRA VISTA, AZ 85635 (520)499-2806

0443 00020 07250 11/24/09
 SALE 41 GLM5307 04:11 PM



046677203344 35WCAPSULE <A>	17.97
385.99	
611942066582 PVC40 PEPIPE <A>	1.20
048643025455 25' POLY <A>	
295.65	11.30
014717227438 HOSE <A>	8.79
077027050400 GECLEAR <A>	5.97
048643071896 ADAPTER <A>	3.43
048643129245 ADAPTER <A>	12.60
012871622069 PVC TEE <A>	
200.47	0.94
	SUBTOTAL 62.20
	SALES TAX 4.88
	TOTAL \$67.08
XXXXXXXXX0600	GIFT CARD 50.00
CARD BALANCE	0.00
	TA
XXXXXXXXXXXX5023-MASTERCARD	17.08
AUTH CODE 00787P/7204766	TA



320.2 Solution Chemical Feeder

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

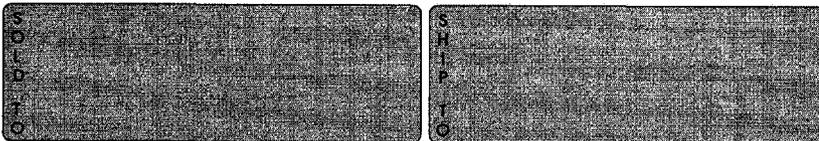
ADEQ Public Water System Number: 02045

PAGE NO 1

IRRIGATION & SPRINKLER SUPPLY, INC.

2130 E. 12TH STREET
TUCSON, AZ 85719-6397
PHONE: (520) 792-4652

CUSTOMER NO.	JOB NO.	PURCHASE ORDER NO.	REFERENCE	TERMS	CLERK	DATE	TIME
--------------	---------	--------------------	-----------	-------	-------	------	------



DEL. DATE: 1 / 8 / 09
 USER: 18 Dominic De La Casa
 TAX : SET TUCSON AZ 85719

DOC# 851563

 * INVOICE *

SHIPPED	ORDERED	UM	SKU	DESCRIPTION	UNITS	PRICE/PER	EXTENSION
1		EA	C-700-1	METER WATER GAGGONS 3/8 X 3/4"	1	63.99 /EA	63.99
2		EA	J-130 3/4X2 1/2	COUPLING METER 3/4 X 2 1/2 BRASS	2	5.95 /EA	11.90
2		EA	SS075PM	GASKET WATER METER 3/4"	8	.09 /EA	.72

IRRIGATION AND SPRINKLER
 2130 E. 12TH ST
 TUCSON, AZ 85719
 520-792-4652

BATCH: 118
 S-A-T-E-S D-R-A-F-T
 7254874
 22854988808

REF: 0005
 CD TYPE: VISA
 TR TYPE: PURCHASE
 DATE: JAN 08, 09 12:32:07

TOTAL \$82.82

ACCT: *****
 AP: 00034C
 NAME: BARRY LANE
 EXP: 11/11

CARDHOLDER ACKNOWLEDGES RECEIPT OF GOODS AND/OR SERVICES IN THE AMOUNT OF THE TOTAL SHOWN HEREON AND AGREES TO PERFORM THE OBLIGATIONS SET FORTH BY THE CARDMEMBER'S AGREEMENT WITH THE ISSUER

THANKS FOR USING VISA

CUSTOMER COPY

Posted

*2271
 1-9-09
 234*

X

RECEIVED BY

UNRECORDED PAYMENT
 01/08/09

82.82
 82.82
 0.00
 82.82

334 Meters, Meter Installations

Detail Summary: Meters \$82.22 & 286.47 Labor \$150

Total

\$519.29

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

PAGE NO 1

IRRIGATION & SPRINKLER SUPPLY, INC.

2130 E. 12TH STREET
TUCSON, AZ 85719-6397
PHONE: (520) 792-4652

CUSTOMER NO.	JOB NO.	PURCHASE ORDER NO.	REFERENCE	TERMS	CLERK	DATE	TIME
45		PARKER SPRING	PARKER SPRINGS	CASH/CHECK/BANKCARD	DOM	2/25/09	2:21

S
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L
D
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**** CASH ****

S
H
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P
T
O

DEL. DATE: 2/25/09

DOC# 856027

* INVOICE *

SLSPR: 18 Dominic De La Ossa

TAX : RET TUCSON AZ RETAIL

SHIPPED	ORDERED	UM	SKU	DESCRIPTION	UNITS	PRICE/PER	EXTENSION
4		EA	C-700-I	METER WATER CALLONS 5/8 X 3/4"	4	54.17 /EA	216.68
8		EA	G-130 3/4X21/2	COUPLING METER 3/4 X 2 1/2 BRASS	8	5.95 /EA	47.60
8		EA	GS075MM	GASKET WATER METER 3/4"	8	.09 /EA	.72
TOTAL				\$286.47			

IRRIGATION AND SPRINKLER SUPPLY
2130 E 12TH ST
TUCSON, AZ 85719
520-792-4652

BATCH 156
S-A-L-E-S D-E-P-A-R-T
73545074
22654998000

REF: 0009
CD TYPE: VISA
PR TYPE: PURCHASE
DATE: FEB 25, 09 14:13:33

ACCT: *****0376
AP: 025380
NAME: BARRY LANE

EMP: #/##

CARDMEMBER ACKNOWLEDGES RECEIPT OF GOODS AND/OR SERVICES IN THE AMOUNT OF THE TOTAL SHOWN HEREON AND AGREES TO PERFORM THE OBLIGATIONS SET FORTH BY THE CARDMEMBER'S AGREEMENT WITH THE ISSUER

THANKS FOR USING VISA

2/25/09

Rec 334
#2274
2/28/09

** PAYMENT RECEIVED **

** PAID IN FULL **

286.47 TAXABLE 265.00
NON-TAXABLE 0.00
SUBTOTAL 265.00

X

RECEIVED BY

BANKCARD PAYMENT
BKCRD#41147

286.47
TAX AMOUNT 21.47
TOTAL AMOUNT 286.47

334 Meters, Meter Installations

Company Name: Parker Lakeview Est HOA, Inc
 Name of System: Parker Springs

Test Year Ended 10-30-2010
 ADEQ Public Water System Number: 02045

Handwritten: 2/3/32
 KEE

INVOICE

Mike Fleming
Fish Haven, Inc.
 HC1 Box 16
 Elgin, AZ 85611
 520-455-4677 - 9218

BITO: Parker Springs Water Co. DATE: November 23, 2009
 HC1 Box 474
 Elgin, AZ 85611
 Attention: Gail Spain

Job Desc: REPLACE 4 METERS

QUANT.	DESCRIPTION OF MATERIALS USED	PRICE	AMOUNT
5	LABOR		
	MINIMUM LABOR CHARGE \$100	35.00	175.00
	TOTAL MATL		-
	TOTAL LABOR		175.00
	TAX		-
	TOTAL		175.00

Make Check Payable to Mike Fleming
 HC1 Box 16, Elgin, AZ 85611
 Tax ID for reporting purposes: 

334 Meters, Meter Installations

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

USABlueBook



Remit to:
P.O. Box 9004
Gurnee, IL 60031-9004

TEL: (847) 689-9781
FAX: (847) 689-3001
TOLL FREE: 1-800-493-9876
F.E.I.N.: 36-3645787

INVOICE

INVOICE NO.	PAGE NO.
959070	1 of 1
CUSTOMER NO.	DATE
705718	12/23/09

BILL TO:
705718
PARKER SPRINGS WATER COMPANY

HC1 BOX 474
ELGIN AZ, 85611-9739

SHIP TO:
1
PARKER SPRINGS WATER COMPANY
*** THIS ADDRESS UPS ONLY ***
9012 W MONTEZUMA PL
ELGIN, AZ 85611
ATTN GAIL SPAIN

CUSTOMER P.O. NO.	SHIP DATE	SLP	TERMS	TAX CODE	SALES ORDER NO.	W/H	FREIGHT	SHIP VIA
12/23/09	12/23/09	LJH	MASTER CARD	AZ	723377	01	PREPAID	UPS

EA STOCK NO.	DESCRIPTION	ORDERED	SHIPPED	BACK ORDER	U/M	PRICE	PER	EXTENSION
25683	B/W, 14"x20" Fiberglass w/4 Hole 7" Electronic Probe with headphones	1	1	0	EA	25.56	EA	25.56
75178	Meter Base Spreader	1	1	0	EA	209.95	EA	209.95

acct
343
281.53

PAID IN FULL BY CREDIT CARD

THANK YOU for your business! 1.5% MONTHLY FINANCE CHARGE ON AMOUNTS 30 DAYS PAST DUE Discounts Apply to Merchandise Only	MERCHANDISE	MISCELLANEOUS	DISCOUNT	TAX	FREIGHT	TOTAL
	321.01	.00	.00	17.98	28.04	367.03

Should it become necessary to refer your unpaid balance to a collection agency, a collection fee, not to exceed 25% of the balance referred; plus reasonable attorney's fees; and court costs when necessary, will be added to the balance due.

Please Detach and Return Bottom Portion to Insure Proper Credit to Your Account

******IMPORTANT******
Please include this customer #
on the face of your remittance check. ➡

CUSTOMER NO.	INVOICE NO.	DATE	TOTAL
705718	959070	12/23/09	367.03

USABlueBook

REMIT TO: USABlueBook, P.O. Box 9004, Gurnee, IL 60031-9004

343 Tools, Shop & Garage Equipment

\$281.53

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

MAJOR EXPENSES

3 Packets

ITEM 5

601 Breakdown by name, position, salary, duties

There are no paid employees none

ITEM 6

610 Invoices for Purchased Water none

ITEM 7

616/615 Purchased Power (Fuel) 6 invoices \$3119.34

ITEM 8

620 Repairs & Maintenance >\$150.00 none

ITEM 9 Invoices for Outside Services >\$150

630 Outside Services Accounting \$ 951.00

630 Outside Services Repairs \$2672.91

630 Outside Services Search for Leak \$ 300.50

630 Outside Services Licensed Operator \$2120.00

ITEM 10

635 Water Testing \$1154.25

MAP Invoice included in ITEM 3(\$352.80)

ITEM 11

408.11 Property Tax \$ 340.20

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

BARNETT'S PROPANE, L.L.C.
www.BarnettsPropane.com

PO BOX 1325
1498 FRY BLVD.
SIERRA VISTA, AZ 85635
(520) 458-4541

1-10, EXIT 259
1514 S. FREEWAY
TUCSON, ARIZONA 85713
(520) 628-8525

NOTES:

**FLAMMABLE GAS
UN 1075**

TANK NO. *1549J* *55/82*

CASH	CHECK	CHARGE	ROUTE NO. <i>83</i>
------	-------	--------	------------------------

RECEIVED BY: *Credit card*

PARKER SPRINGS WATE
PARKER CANYON LAKE P
PARKER CANYON LK AZ
ACCOUNT NUMBER 16081000
DATE 1/12/10 TIME 9:25
TRUCK NUMBER ----- 17
DRIVER NUMBER ----- 7
SALES NUMBER ----- 7593
GALLONS START ----- .0
GALLONS FINISH --- 125.0
PRICE/GALLON -- 2.6500
PRODUCT COST -- 331.25
TAX --- 26.00
TOTAL COST -- 357.25

*# 1012
1-30-10*

BARNETT'S PROPANE, L.L.C.
www.BarnettsPropane.com

PO BOX 1325
1498 FRY BLVD.
SIERRA VISTA, AZ 85635
(520) 458-4541

1-10, EXIT 259
1514 S. FREEWAY
TUCSON, ARIZONA 85
(520) 628-8525

NOTES:

**FLAMMABLE GAS
UN 1075**

TANK NO. *1549J* *30/80*

CASH	CHECK	CHARGE	ROUTE NO. <i>83</i>
------	-------	--------	------------------------

RECEIVED BY: *Credit card*

PARKER SPRINGS WATE
PARKER CANYON LAKE P
PARKER CANYON LK AZ
ACCOUNT NUMBER 16081000
DATE 12/02/09 TIME 10:39
TRUCK NUMBER ----- 17
DRIVER NUMBER ----- 7
SALES NUMBER ----- 7114
GALLONS START ----- .0
GALLONS FINISH --- 250.0
PRICE/GALLON -- 2.4000
PRODUCT COST -- 600.00
TAX --- 47.10
TOTAL COST -- 647.10

*# 1003 12-3
440.02*
*# 1007 12-23
297.07*

616 Purchased Power (Fuel) 6 invoices

Total \$3119.34

616

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

BARNETT'S PROPANE, L.L.C.

www.BarnettsPropane.com

PO BOX 1325
1498 FRY BLVD.
SIERRA VISTA, AZ 85635
(520) 458-4541

1-10, EXIT 259
1514 S. FREEWAY
TUCSON, ARIZONA 85713
(520) 628-8525

NOTES:

**FLAMMABLE GAS
UN 1075**

TANK NO.

1549J

20/81

CASH

CHECK

CHARGE

ROUTE NO.

83

RECEIVED BY:

Archie

PARKER SPRINGS WATE
PARKER CANYON LAKE P
ARKER CANYON LK AZ
ACCOUNT NUMBER 16081000
DATE 6/05/10 TIME 8:32
TRUCK NUMBER ----- 17
DRIVER NUMBER ----- 7
SALES NUMBER ----- 8711
GALLONS START ----- .0
GALLONS FINISH --- 300.0
PRICE/GALLON -- 2.3000
PRODUCT COST -- 690.00
TAX --- 61.07
TOTAL COST -- 751.07

#1032
6/5/10

BARNETT'S PROPANE, L.L.C.

www.BarnettsPropane.com

PO BOX 1325
1498 FRY BLVD.
SIERRA VISTA, AZ 85635
(520) 458-4541

1-10, EXIT 259
1514 S. FREEWAY
TUCSON, ARIZONA 85713
(520) 628-8525

NOTES:

C/c on file

**FLAMMABLE GAS
UN 1075**

TANK NO.

1549J

65/85

CASH

CHECK

CHARGE

ROUTE NO.

235.80

83

RECEIVED BY:

*Sold @ cash price,
discount included.*

PARKER SPRINGS WATE
PARKER CANYON LAKE P
ARKER CANYON LK AZ
ACCOUNT NUMBER 16081000
DATE 2/16/10 TIME 10:49
TRUCK NUMBER ----- 16
DRIVER NUMBER ----- 11
SALES NUMBER ----- 7238
GALLONS START ----- .0
GALLONS FINISH --- 100.0
PRICE/GALLON -- 2.6500
PRODUCT COST -- 265.00
TAX --- 20.80
TOTAL COST -- 285.80

#1025
4/17/10

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

BARNETT'S PROPANE, L.L.C.

www.BarnettsPropane.com

PO BOX 1325
1498 FRY BLVD.
SIERRA VISTA, AZ 85635
(520) 458-4541

1-10, EXIT 259
1514 S. FREEWAY
TUCSON, ARIZONA 85713
(520) 628-8525

NOTES:

**FLAMMABLE GAS
UN 1075**

TANK NO.

1549-J

40/80

CASH

CHECK

CHARGE

ROUTE NO.

83

RECEIVED BY:

Credit Card

PARKER SPRINGS WATE
PARKER CANYON LAKE
PARKER CANYON LK AZ
ACCOUNT NUMBER 01508101
DATE 10/08/10 TIME 12:02
TRUCK NUMBER ----- 17
DRIVER NUMBER ----- 7
SALES NUMBER ----- 9502
GALLONS START ----- .0
GALLONS FINISH --- 180.0
PRICE/GALLON -- ~~2.4000~~ 2.30
PRODUCT COST -- 432.00
STATE TAX --- 30.67
LOCAL TAX ---- 7.56
TOTAL COST -- ~~470.23~~

#1047
10/10/10

452.23

BARNETT'S PROPANE, L.L.C.

www.BarnettsPropane.com

PO BOX 1325
1498 FRY BLVD.
SIERRA VISTA, AZ 85635
(520) 458-4541

1-10, EXIT 259
1514 S. FREEWAY
TUCSON, ARIZONA 85713
(520) 628-8525

NOTES:

**FLAMMABLE GAS
UN 1075**

TANK NO.

1549

30/80

CASH

CHECK

CHARGE

ROUTE NO.

83

RECEIVED BY:

Credit Card

~~PARKER SPRINGS WATE~~
PARKER CANYON LAKE P
PARKER CANYON LK AZ
ACCOUNT NUMBER 15081000
DATE 8/10/10 TIME 8:42
TRUCK NUMBER ----- 17
DRIVER NUMBER ----- 7
SALES NUMBER ---- 9055
GALLONS START ----- .0
GALLONS FINISH --- 250.0
PRICE/GALLON -- 2.3000
PRODUCT COST -- 575.00
TAX --- 50.89
TOTAL COST -- 625.89

#1039

Company Name: Parker Lakeview Est HOA, Inc
 Name of System: Parker Springs

Test Year Ended 10-30-2010
 ADEQ Public Water System Number: 02045

Arizona Rural Utility Services
 1955 West Grant Road
 Suite 190
 Tucson, AZ 85745

Statement

Date
10/11/2010

To:
Parker Springs Water Co. Gail Spain HC 1 Box 474 Elgin, AZ 85611-9739

Date	Transaction	Amount Due	Amount Enc.		
		Amount	Balance		
		\$200.00			
09/11/2010	Balance forward		0.00		
09/15/2010	Due 10/11/2010. Performing monthly bookkeeping services, issuing financial and providing a packet of information along with financial analysis	200.00	200.00		
09/26/2010	PMT #1041. Dues for Services	-200.00	0.00		
10/11/2010	Due 10/11/2010. Performing monthly bookkeeping services, issuing financial and providing a packet of information along with financial analysis	200.00	200.00		
CURRENT	1-30 DAYS PAST DUE	31-60 DAYS PAST DUE	61-90 DAYS PAST DUE	OVER 90 DAYS PAST DUE	Amount Due
200.00	0.00	0.00	0.00	0.00	\$200.00

1048
 10/13/10

630 Outside Services (Accounting) 3 invoices

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

Evans & Hillebrand, P.C.,
Certified Public Accountants
400 West Fry Boulevard, Suite 4
Sierra Vista, AZ 85635
(520) 459-2366

Invoice submitted to:

Parker Lakeview Estates
Homeowners Assn.
HC 1 Box 474
Elgin, AZ 85611

March 11, 2010

Invoice # 15651

Professional Services

	<u>Hours</u>	<u>Amount</u>
Preparation of Form 990	6.50	551.00
Balance due		<u>\$551.00</u>

*** The above charges are for fees and costs incurred during the month ending on the above date and may not include all charges for the project for which we were engaged. ***

A periodic rate of 1-1/2% monthly, as a finance charge, will be added on balances which are not paid within thirty days of the above date, which is an ANNUAL PERCENTAGE RATE of 19.72%.

We accept MasterCard, Visa and Discover/NOVUS payments at the office.

#1018
3/23/10

630 Outside Services (Accounting) 3 invoices

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

**Mike Fleming
Fish Haven, Inc.**
HC1 Box 16
Elgin, AZ 85611

INVO

520 455-4677 - 9218

BILL TO: Parker Springs Water Co.
HC1 Box 474
Elgin, AZ 85611

DATE: December 19, 2009

Attention: Gail Spain

Job Desc: EMERGENCY REPAIR - MONTEZUMA.
BLOW OFF

QUANT.	DESCRIPTION OF MATERIALS USED	PRICE	AMOUNT
HOURS	LABOR	AMOUNT	
MINIMUM LABOR CHARGE \$180			
4	\$	35.00	150.00
TOTAL MATL			-
TOTAL LABOR			150.00
TAX			-
TOTAL			150.00

Make Check Payable to Mike Fleming
HC1 Box 439, Elgin, AZ 85611
Tax ID for reporting purposes:



*# 1006
12/23/09
amt
636*

*636 Repair
outside service*

We have lost this inexpensive source. Future plumbing will be more expensive

630 Outside Services Generator & Automated System Repair, 2 Invoices,
Pipe break 1 Invoice

Company Name: Parker Lakeview Est HOA, Inc
 Name of System: Parker Springs

Test Year Ended 10-30-2010
 ADEQ Public Water System Number: 02045

Simonsen Generator Service, Inc.
 3851 S. Country Club Road
 Tucson, Az 85714
 (520) 889-9581 Fax (520) 746-3417

SOLD TO:
 PARKER LAKEVIEW ESTATES ASSN.
 HC 1 BOX 474
 ELGIN, AZ 85611

SHIP TO:
 PARKER LAKEVIEW ESTATES ASSN.
 HC 1 BOX 474
 ELGIN, AZ 85611

3010
 TERMINAL: 16

No returns or service warranties without receipt.
 No returns on special order or electrical parts.
 There is a 15% restocking fee on returns.

Work Order #: 26774
 SHIPPED VIA: CUSTOMER PICKUP
 9:14:47 PAGE: 1 OF 2

AGCT NO	DATE	INVOICE NO	SALESMAN	STORE	P/O NUMBER	SPECIAL INFORMATION		
0003010	2/22/10	76489	0517023	1	SPAIN	0026774-35		
ORD	SHIP	B/O	LINE	PART NUMBER	DESCRIPTION	LIST	NET	AMOUNT
				UNAN-GENERATOR				
				SER NUM 2 GENERATORS				
				SER NUM 1 SEE NOTES				
				UNIT 1 4.58GDFB1L F973699647				
				NUMBER 2 15JCL83888 J880174381				
				THE JC STARTED BUT DID NOT PUMP ANY				
				WATER. WOULD NOT SHUT DOWN AND GAIL				
				HAD TO SHUT OFF PROPANE.				
				UNIT 1 THE BGD WOULD NOT START.				
				PCB ASSY REGULATOR				
				ORDER FAULTY RELAY SURFACE PER PAT				
				AND GAIL. 02-04-10..CF FROM ELECTRIC				
				SUPPLY				
1	1		170300-1540				305.27	305.27
145	145		501MI				2.25	326.25
1	1		5509999				107.45	107.45
1	1		502FREIGHTOUT				10.00	10.00
6	6		L51FS				90.00	540.00
1	1		550SHOP-SUPPLIES				30.00	30.00

IMPORTANT NOTICE: It is agreed as part of the consideration for this sale that the price shown hereon for the goods shall be paid on cash basis. The seller shall be responsible for the payment of purchase. Any portion of the sale price not paid within said time period shall thereafter bear interest at the HIGHEST PREVAILING RATE. All claims and returned goods MUST be accompanied by this invoice. There will be no refund or exchange on electrical parts. The factory warranty constitutes all of the warranties with respect to the sale of this item/items. The seller hereby expressly disclaims all warranties, either expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose and the seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of this item/items.

630 Outside Services Generator & Automated System Repair, 2 Invoices,
 Pipe break 1 Invoice

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

Simonsen Generator Service, Inc.
 3851 S. Country Club Road
 Tucson, AZ 85714
 (520) 889-9581 Fax (520) 746-3417

SOLD TO:
 PARKER LAKEVIEW ESTATES ASSN.
 HC 1 BOX 474
 ELGIN, AZ 85611

SHIP TO:
 PARKER LAKEVIEW ESTATES ASSN.
 HC 1 BOX 474
 ELGIN, AZ 85611

3010
 TERMINAL: 16

No returns or service warranties without receipt. Work Order #: 26870
 No returns on special order or electrical parts. SHIPPED VIA: CUSTOMER PICKUP
 There is a 15% restocking fee on returns. 15:14:49 PAGE: 2 OF 2

ACCT. NO.	DATE	INVOICE NO.	SALESMAN	STORE	P/O NUMBER	SPECIAL INFORMATION	
0003010	4/26/10	77084	0517051	1		0026870-28	
ORD. #	SHIP	BIG LINE	PART NUMBER	DESCRIPTION	LIST	NET	AMOUNT
1	1	5506	SHOP-SUPPLIES	FIELD SERVICE LABOR		30.00	30.00
				SHOP SUPPLIES			30.00
							540.00
CHARGE SALE:3							
SUB TOTAL							631.87
MISC.							0.00
LABOR							540.00
TAX 6.10%							5.06
INVOICE TOTAL							1176.93

* 1030
4/28/10

IMPORTANT NOTICE: The price shown hereon for the goods shall be paid on October 31, 2010. All claims and returned goods MUST be accompanied by this invoice. There will be no refund or exchange on electrical parts. The factory warranty constitutes all of the warranties with respect to the sale of this item/items. The seller hereby expressly disclaims all warranties, either expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose and the seller neither assumes nor authorizes any other person to assume for it any liability in connection with the sale of this item/items.

630 Outside Services Generator & Automated System Repair, 2 Invoices,
 Pipe break 1 Invoice

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

Ongoing Effort to find leak

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



WORK ORDER No 36057

REPAIRMAN 291

DATE 3-31-2010

TIME OUT AM PM

TIME IN AM PM

COMMERCIAL DEPT. - PH. 748-1660
3645 S. PALO VERDE (REAR) • TUCSON, AZ 85713
MON - FRI 7-5 • SATURDAY BY APPOINTMENT

CUSTOMER: V. J. ... PURCHASE ORDER NO.

VEHICLE TYPE: Kioti mini loader UNIT # MILEAGE 1092

WORK PERFORMED AT: Parker Canyon Lake

WORK PERFORMED:

TIRE SIZE	REPAIR MADE	CAUSED BY	POS.	VEH. # OR LICENSE #
4.3-11.00-20	repair 1 hole		LR	
	... holes ...			
	... repair ...			
	... needed			
	repair tire on Joe's equipment			
	The Leak			20250

CUSTOMER PLEASE NOTE: Although we will exercise every precaution on removing and replacing wheels WE CANNOT ASSUME RESPONSIBILITY FOR ANY BREAKAGE AT THE TIME THE WORK IS DONE OR IN LATER USE OF THE VEHICLE. All wheels, studs and nuts can wear out and breakdown in time like all other components of a vehicle.

TIRE / MATERIALS FURNISHED

10 ...		# 1020
		3/31/10
		acc 636

CONDITION OF OTHER TIRES/STUDS ETC.

SIGNED BY: [Signature] ARIZ DR. LIC. #

630 Outside Services
Continuing Effort to find leak - Repaired tire we damaged on borrowed equipment

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

GRECO Rental

919 W. Silverlake Road • Tucson, AZ 85713-1435
 Phone: (520) 882-9590 Fax: (520) 622-0109
 After Hours: (520) 891-4640

NOTICE
 You shall be in violation of A.R.S. § 13-1806 if this equipment is not returned within 72 hours of the specified date and time and you shall be subject to a maximum imprisonment in the state prison for 1.9 years and a maximum fine of \$150,000.00 if the value of the rental property is \$100.00 or greater. The above prison term may be aggravated to a term of 4.9 years for repetitive offenders. If the value of the rental property is less than \$100.00, you shall be subject to a maximum imprisonment of six months in jail and a maximum fine of \$1,000.00.

RENTAL CONTRACT
 TERMS: NET 10TH (Due 10th of following month)
 An interest rate of 24% per annum will be charged on all past due amounts.
 CUSTOMER IS RESPONSIBLE FOR ALL TIRE DAMAGE AND IF EQUIPMENT DOES NOT WORK PROPERLY, NOTIFY OFFICE IMMEDIATELY.

Bill To CHAC05
CHACON, VICTOR DANIEL
 3060 W ST TROPAZ
 TUCSON, AZ 85713
 Ph: (520) 623-3187 Victor

Contract#
0101695
 Date
09/11/09
 Status
Closed

Ship To
**** SAME ****
 Ph:

Invoice#	Sis	P/O#	Identification#	Employee	Tag#	Driver's Licence#	User	Term
	LIB	1 DAY SPEC		Victor	1 DAY SPEC	B10707681 AZ 10/21/11	LIB	Cash

Trns	Item#	Description	Rental	Due/Return	Qty	Unit Price
Sale **		PAID VISA \$85.58 #01188A				

Offline Sale
 Ref #: 0012
 Entry Method: Manual \$ 85.58
 103-20-40
 App Code: 01188A
 Batch: 000001
 Total: 85.58
 Inv #: 000012
 Approved: Offline
 Customer Copy
 HAVE A NICE DAY!

Cash: 0.00 Check: 0.00 Crdt C: 85.58 Billed: 0.00
 Card# Job Ref: PARKER CANYON

PRINT NAME _____ DW YES _____ NO _____
 TAX INCLUDES 1.5% USE TAX PER ARS # 44-1799.41
 Rate based on a maximum work day of 8 hours, maximum work week of 40 hours and maximum work month of 160 hours.
 Overtime charge will be made for equipment working in excess of these hours. Rental does not include fuel.
 I understand the correct operation of the above rental equipment, or will assign someone that is qualified. The above information is true and accurate. I have read and understand the terms on front and back of this contract and hereby agree to them.

Rental Charges
Sale/Used Amount
Discount
Delivery/Misc
Damage Waiver/Env
Use/Sales Tax
Current Total
Previous Total
Contract Total
Paid/Billed-To-Date
BALANCE DUE

Lessee Signature _____
 09/14/09 01:19:58

640 Rents

Continuing Effort to find leak – Rented equipment to locate line from well

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

R
O
W

COCHISE COUNTY HIGHWAY & FLOODPLAIN DEPARTMENT

1415 Melody Lane, Bldg F, Bisbee, AZ 85603-3090

Phone (520) 432-9300 Fax (520) 432-9337



CONSTRUCTION ADDRESS: <i>W. Montezuma Place</i>		SECTION <i>17</i>	TWP. <i>23S</i>	RGE <i>19E</i>
SUBDIVISION NAME: <i>Parker Lakeview Est.</i>		PERMITEE JOB NUMBER:	FRANCHISE <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	

DESCRIPTION & PURPOSE OF CONSTRUCTION:

Excavate approx 40' x 3' deep (or less) to locate leak + to repair.

AGENT (IF APPLICABLE) <i>Gail Spain</i>	PHONE # <i>520 455-9345</i>	OWNER (PERMITEE) <i>Parker Lakeview Est HOA</i>	PHONE # <i>520 455-9345</i>
ADDRESS <i>Hci Box 474</i>	FAX # <i>NA</i>	ADDRESS <i>same</i>	FAX # <i>DLA</i>
CITY/STATE <i>Elgin, AZ</i>	ZIP <i>85611</i>	CITY/STATE <i>same</i>	ZIP

INSTRUCTIONS - This application form shall be accompanied by a drawing, map, or similar exhibit to clearly show the location, type, scope & method of proposed installation or work. Applicant must be either the owner or the agent of the owner, however, if the work is not to become the property of Cochise County, the owner shall sign the application form to indicate that he agrees to the conditions of the permit. Please be sure to read and understand all of the attached General Conditions pertaining to this application. *Permit Fees are NON-REFUNDABLE

I herewith make application for a permit to enter upon and use the above-described right-of-way. I agree to the conditions set forth on the second page of this application and understand that the work must be done in conformity with the regulations of the County of Cochise and the State of Arizona.

PERMITEE IS RESPONSIBLE TO CALL COCHISE COUNTY INSPECTIONS DIVISION AT LEAST 48 HRS PRIOR TO STARTING OF WORK.

SIGNATURE OF APPLICANT X *Gail Spain* DATE *3-26-10*

FOR OFFICIAL USE ONLY	PERMIT #: <i>2010-0336</i>	DATE ISSUED: <i>3/29/10</i>	DATE OF EXPIRATION: <i>3/29/11</i>	DATE CLOSED:
-----------------------	-------------------------------	--------------------------------	---------------------------------------	--------------

PERMIT FEES				
QUANTITY	UNIT	ITEM	UNIT COST	AMOUNT
<i>1</i>	<i>AD</i>	<i>FILING FEE</i>	<i>25.00</i>	<i>25.00</i>
<i>1</i>	<i>AI</i>	<i>200'</i>	<i>25.00</i>	<i>25.00</i>
TOTAL FEE:				<i>50.00</i>

<input type="checkbox"/> Cash	RECEIPT #:	CHECK #:	DATE ISSUED	BY	AMOUNT PD
<input type="checkbox"/> Check <i># 27</i>					
<input checked="" type="checkbox"/> Account					
Supervisor Dist: <i>1 (2) 3</i>	Road No. <i>643</i>	Map No.	Type: <i>(A) B C/R DW P</i>	<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	

Inspectors Comments: *Work to begin 3/30/10*

PERMIT VALID WHEN SIGNED

Approved by County Engineer or Designee By: *[Signature]* DATE: *3/29/10*

*SEE PAGE 2, #13

REVISED: 1/7/2008

408 Taxes other than Income

Continuing Effort to find leak - Permit to dig in street

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

**Ken Sessions
Sierra Vista, AZ**

INV

BILL TO: Parker Springs Water Co.
HC1 Box 474
Elgin, AZ 85611

DATE: April 13, 2010

Attention: Gail Spain

Job Desc: Operate Back Hoe 3 days searching for leak

QUANT.	DESCRIPTION OF MATERIALS USED	PRICE	AMOUNT	
HOURS	LABOR	AMOUNT		
10	\$ 10.00	100.00	TOTAL MATL	-
			TOTAL LABOR	100.00
			TAX	-
			TOTAL	100.00

Cash

Cash Only
Tax ID for reporting purposes:

630 Outside Services
Continuing Effort to find leak – 2nd equipment operator

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

Whetstone Environmental Complex Invoices

630 Outside Services (Licensed Operator) 12 invoices Total \$2120.00*

* Includes 1 courier fee of \$20.00

635 Testing 12 invoices Total \$ 801.45*

* Includes 12 Coliform , \$300; 1 Disinfection Byproducts, \$300; 2 comprehensive tests of well for WIFA Eng. Study, \$240

Received \$38.55 credit for unused manganese tests

650 Transportation – 1 courier fee for WIFA Eng Study Total \$ 25.00

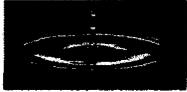
Total of Whetstone Environmental Invoices \$2946.45

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



Whetstone Environmental Services LLC
147 E. Hickory
Huachuca City, AZ 85616

Invoice

Date 10/16/2009
Invoice # 413

Bill To

Parker Lakeview Est HOA
Gail Spain
HC1 Box 472
Elgin, AZ 85611

Ship To

~~P.O. #~~
Terms Net 15

~~Ship Date~~ 10/16/2009
~~Due Date~~ 10/31/2009
~~Other~~

Description	Qty	Rate	Amount
Operator of Record Water Nov. Service		175.00	175.00
Coliform Test	1	25.00	25.00
Lab Work mercury, arsenic, fluoride and total dissolved solids	2	120.00	240.00
Courier To Tucson Lab		25.00	25.00
Discount buy manganese testers		-38.55	-38.55

Thank You for Letting Us Protect Your Water System!

Subtotal	\$426.45
Sales Tax (0.0%)	\$0.00
Total	\$426.45
Payments/Credits	\$0.00
Balance Due	\$426.45

Whetstone Environmental Services LLC
wes@powerc.net

520-559-0887 cell
520-456-1149 Fax

2327
10/11/09

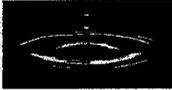
630 Outside Services (Licensed Operator) 12 invoices

635 Testing 12 invoices

650 Transportation – 1 courier fee for WIFA Eng Study

Company Name: Parker Lakeview Est HOA, Inc
Name of System: Parker Springs

Test Year Ended 10-30-2010
ADEQ Public Water System Number: 02045



Whetstone Environmental Services LLC
147 E. Hickory
Huachuca City, AZ 85616

Invoice

Date 11/16/2009
Invoice # 431

Bill To

Parker Lakeview Est HOA
Gail Spain
HC1 Box 472
Elgin, AZ 85611

Ship To

P.O. #
Terms Net 15

Ship Date 11/16/2009
Due Date 12/1/2009
Other

Description	Qty	Rate	Amount
Operator of Record Water Dec. Service 2009		175.00	175.00
Coliform Test	1	25.00	25.00

Thank You for Letting Us Protect Your Water System!

Subtotal \$200.00
Sales Tax (0.0%) \$0.00
Total \$200.00
Payments/Credits \$0.00
Balance Due \$200.00

Whetstone Environmental Services LLC
wes@powerc.net

520-559-0887 cell
520-456-1149 Fax

630 Outside Services (Licensed Operator) 12 invoices

635 Testing 12 invoices

650 Transportation – 1 courier fee for WIFA Eng Study

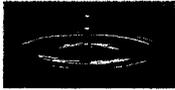
#1002
12-2-09

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



Whetstone Environmental Services LLC
147 E. Hickory
Huachuca City, AZ 85616

Invoice

Date 12/16/2009
Invoice # 446

Bill To
Parker Lakeview Est HOA
Gail Spain
HC1 Box 472
Elgin, AZ 85611

Ship To

P.O. #
Terms Net 15

Ship Date 12/16/2009
Due Date 12/31/2009
Other

Description	Qty	Rate	Amount
Operator of Regional Water Jan. 2010 Service	1	175.00	175.00
Coliform Test		25.00	25.00
Thank You for Letting Us Protect Your Water System!			Subtotal \$200.00
			Sales Tax (0.0%) \$0.00
			Total \$200.00
			Payments/Credits \$0.00
			Balance Due \$200.00

Whetstone Environmental Services LLC
wes@powerc.net

520-559-0887 cell
520-456-1149 Fax

1010
1/4/10

630 Outside Services (Licensed Operator) 12 invoices

635 Testing 12 invoices

650 Transportation – 1 courier fee for WIFA Eng Study

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



Whetstone Environmental Services LLC
147 E. Hickory
Huachuca City, AZ 85616

Invoice

Date 1/16/2010
Invoice # 462

Bill To

Parker Lakeview Est HOA
Gail Spain
HC1 Box 472
Elgin, AZ 85611

Ship To

P.O. #
Terms Net 15

Ship Date 1/16/2010
Due Date 1/31/2010
Other

Description	Qty	Rate	Amount
Operator of Record Water Feb. 2010 Service		175.00	175.00
Coliform Test	1	25.00	25.00
Courier Service to Tucson	1	20.00	20.00
Thank You for Letting Us Protect Your Water System!		Subtotal	\$220.00
		Sales Tax (0.0%)	\$0.00
		Total	\$220.00
		Payments/Credits	\$0.00
		Balance Due	\$220.00

Whetstone Environmental Services LLC
wes@powerc.net

520-559-0887 cell
520-456-1149 Fax

Payments/Credits \$0.00
Balance Due \$220.00

2/4/10
#1013

630 Outside Services (Licensed Operator) 12 invoices

635 Testing 12 invoices

650 Transportation – 1 courier fee for WIFA Eng Study

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



Whetstone Environmental Services LLC
147 E. Hickory
Huachuca City, AZ 85616

Invoice

Date 2/15/2010
Invoice # 484

Bill To

Parker Lakeview Est HOA
Gail Spain
HC1 Box 472
Elgin, AZ 85611

Ship To

P.O. #

Terms Net-15

Ship Date 2/15/2010

Due Date 3/2/2010

Other

Description	Qty	Rate	Amount
Operator of Record Water March 2010 Service		175.00	175.00
Coliform Test	1	25.00	25.00

Thank You for Letting Us Protect Your Water System!

Subtotal	\$200.00
Sales Tax (0.0%)	\$0.00
Total	\$200.00
Payments/Credits	\$0.00
Balance Due	\$200.00

Whetstone Environmental Services LLC
wes@powerc.net

520-559-0887 cell
520-456-1149 Fax

1017
3/1/10

630 Outside Services (Licensed Operator) 12 invoices

635 Testing 12 invoices

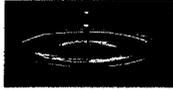
650 Transportation – 1 courier fee for WIFA Eng Study

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



Whetstone Environmental Services LLC
147 E. Hickory
Huachuca City, AZ 85616

Invoice

Date 3/15/2010
Invoice # 495

Bill To

Parker Lakeview Est HOA
Gail Spain
HC1 Box 472
Elgin, AZ 85611

Ship To

P.O. #

Terms

Net 15

Ship Date

3/15/2010

Due Date

3/30/2010

Other

Description	Qty	Rate	Amount
Operator of Record Water Apr. 2010 Service	1	175.00	175.00
Coliform Test		25.00	25.00

Thank You for Letting Us Protect Your Water System!

Subtotal	\$200.00
Sales Tax (0.0%)	\$0.00
Total	\$200.00
Payments/Credits	\$0.00
Balance Due	\$200.00

Whetstone Environmental Services LLC
wes@powerc.net

520-559-0887 cell
520-456-1149 Fax

630 Outside Services (Licensed Operator) 12 invoices

635 Testing 12 invoices

650 Transportation – 1 courier fee for WIFA Eng Study

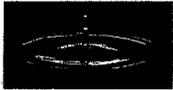
1021
4/4/10

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



Whetstone Environmental Services LLC
147 E. Hickory
Huachuca City, AZ 85616

Invoice

Date 4/15/2010
Invoice # 513

Bill To

Parker Lakeview Est HOA
Gail Spain
HC1 Box 472
Elgin, AZ 85611

Ship To

P.O. #

Terms **Net-15**

Ship Date 4/15/2010

Due Date 4/30/2010

Other

Description	Qty	Rate	Amount
Operator of Record Water May 2010 Service		175.00	175.00
Coliform Test	1	25.00	25.00
Thank You for Letting Us Protect Your Water System!			
Subtotal			\$200.00
Sales Tax (0.0%)			\$0.00
Total			\$200.00
Payments/Credits			\$0.00
Balance Due			\$200.00

Whetstone Environmental Services LLC
wes@powerc.net

520-559-0887 cell
520-456-1149 Fax

1029
5/2/10

630 Outside Services (Licensed Operator) 12 invoices

635 Testing 12 invoices

650 Transportation – 1 courier fee for WIFA Eng Study

Company Name: Parker Lakeview Est HOA, Inc
Name of System: Parker Springs

Test Year Ended 10-30-2010
ADEQ Public Water System Number: 02045



Whetstone Environmental Services LLC
147 E. Hickory
Huachuca City, AZ 85616

Invoice

Date 5/15/2010
Invoice # 528

PAID

Bill To
Parker Lakeview Est HOA
Gail Spain
HC1 Box 472
Elgin, AZ 85611

Ship To

P.O. #
Terms Net 15

Ship Date 5/15/2010
Due Date 5/30/2010
Other

Description	Qty	Rate	Amount
Operator of Record Water June 2010		175.00	175.00
Coliform Test	1	25.00	25.00
Thank You for Letting Us Protect Your Water System!			
Subtotal			\$200.00
Sales Tax (0.0%)			\$0.00
Total			\$200.00
Payments/Credits			\$-200.00
Balance Due			\$0.00

Whetstone Environmental Services LLC
wes@powerc.net
520-559-0887 cell
520-456-1149 Fax

630 Outside Services (Licensed Operator) 12 invoices

635 Testing 12 invoices

650 Transportation – 1 courier fee for WIFA Eng Study

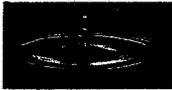
#1033
6/7/2010

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



Whetstone Environmental Services LLC
147 E. Hickory
Huachuca City, AZ 85616

Invoice

Date 6/15/2010
Invoice # 544

Bill To

Parker Lakeview Est HOA
Gail Spain
HC1 Box 472
Elgin, AZ 85611

Ship To

P.O. #

Terms Net 15

Ship Date 6/15/2010

Due Date 6/30/2010

Other

Description	Qty	Rate	Amount
Operator of Record Water July Service 2010		175.00	175.00
Coliform Test	1	25.00	25.00

Thank You for Letting Us Protect Your Water System!

Subtotal	\$200.00
Sales Tax (0.0%)	\$0.00
Total	\$200.00
Payments/Credits	\$0.00
Balance Due	\$200.00

Whetstone Environmental Services LLC
wes@powerc.net

520-559-0887 cell
520-456-1149 Fax

630 Outside Services (Licensed Operator) 12 invoices

635 Testing 12 invoices

650 Transportation – 1 courier fee for WIFA Eng Study

51034
7/6/10

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



Whetstone Environmental Services LLC
147 E. Hickory
Huachuca City, AZ 85616

Invoice

Date 7/15/2010
Invoice # 559

Bill To

Parker Lakeview Est HOA
Gail Spain
HC1 Box 472
Elgin, AZ 85611

Ship To



Net 15

Ship Date 7/15/2010
Due Date 7/30/2010
Other

Description	Qty	Rate	Amount
Operator of Record Water Aug. 2010		175.00	175.00
Coliform Test	1	25.00	25.00
Disinfection Byproducts	1	300.00	300.00

Thank You for Letting Us Protect Your Water System!	Subtotal	\$500.00
	Sales Tax (0.0%)	\$0.00
	Total	\$500.00
	Payments/Credits	\$0.00
	Balance Due	\$500.00

Whetstone Environmental Services LLC
wes@powerc.net

520-559-0887 cell
520-456-1149 Fax

1027
8/4/10

630 Outside Services (Licensed Operator) 12 invoices

635 Testing 12 invoices

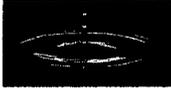
650 Transportation – 1 courier fee for WIFA Eng Study

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



Whetstone Environmental Services LLC
147 E. Hickory
Huachuca City, AZ 85616

Invoice

Date 8/15/2010
Invoice # 581

Bill To

Parker Lakeview Est HOA
Gail Spain
HC1 Box 472
Elgin, AZ 85611

Ship To

P.O. #

Terms

Net 15

Ship Date

8/15/2010

Due Date

8/30/2010

Other

Description	Qty	Rate	Amount
Operator of Record Water Sept. 2010 Service		175.00	175.00
Coliform Test	1	25.00	25.00
Thank You for Letting Us Protect Your Water System!			
Subtotal			\$200.00
Sales Tax (0.0%)			\$0.00
Total			\$200.00
Payments/Credits			\$0.00
Balance Due			\$200.00

Whetstone Environmental Services LLC
wes@powerc.net

520-559-0887 cell
520-456-1149 Fax

Payments/Credits \$0.00
Balance Due \$200.00

*\$1040
9/2/10*

630 Outside Services (Licensed Operator) 12 invoices

635 Testing 12 invoices

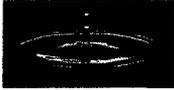
650 Transportation – 1 courier fee for WIFA Eng Study

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045



Whetstone Environmental Services LLC
147 E. Hickory
Huachuca City, AZ 85616

Invoice

Date 9/15/2010
Invoice # 602

Bill To

Parker Lakeview Est HOA
Gail Spain
HC1 Box 472
Elgin, AZ 85611

Ship To

P.O. #
Terms

Net 15

Ship Date 9/15/2010
Due Date 9/30/2010
Other

Description	Qty	Rate	Amount
Operator of Record Water Oct. 2010 Service		175.00	175.00
Coliform Test	1	25.00	25.00
Thank You for Letting Us Protect Your Water System!			
Subtotal			\$200.00
Sales Tax (0.0%)			\$0.00
Total			\$200.00
Payments/Credits			\$0.00
Balance Due			\$200.00

Whetstone Environmental Services LLC
wes@powerc.net

520-559-0887 cell
520-456-1149 Fax

Payments/Credits
Balance Due

1044
10/6/10

630 Outside Services (Licensed Operator) 12 invoices

635 Testing 12 invoices

650 Transportation – 1 courier fee for WIFA Eng Study

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

Property Tax

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

2009 PROPERTY TAX NOTICE ARIZONA

PARCEL #	AREA CODE	PRIMARY RATE PER \$100 ASSESSED VALUE	SECONDARY TAX RATE PER \$100 ASSESSED VALUE	IRRIGATION DIST \$ PER ACRE	PRIMARY PROPERTY TAX																																																										
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JURISDICTION	2008 TAXES	2009 TAXES
02000 COCHISE COUNTY	153.87	145.34
02001 STATE SCHOOL TAX EQU	0.00	18.18
07999 COUNTY EDUCATION DIS	84.08	75.49
08150 COCHISE COUNTY JUNIO	95.47	88.41
11900 FIRE DISTRICT ASSIST	4.66	4.80
14900 COCHISE COUNTY LIBRA	8.34	7.98
15000 COCHISE COUNTY FCD #	0.00	0.00
TOTALS	346.42	340.20

STREET ADDRESS: [REDACTED]
 LEGAL DESCRIPTION: [REDACTED]
 TOTAL VALUE OF OPERATING PROPERTY: [REDACTED]

This is the only notice you will receive.

Marsha Bonham
 Cochise County Treasurer
 PO Box 1778
 Bisbee AZ 85603-2778

THIS IS A CALENDAR YEAR TAX NOTICE

2333
11-30-09

PARKER LAKEVIEW ESTATES HOMEOWNERS ASSO 2333

81-178
1221
024472901
DATE 11-30-09

PAY TO THE ORDER OF Marsha Bonham, Cochise Co Just \$340.20

Three hundred forty and 20/100 DOLLARS

MEMO parcel 944-00-000 4 Paul Spain

2009 included in Comparative Statement

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

DETACH AND RETURN WITH PAYMENT

2010 PROPERTY TAX NOTICE

ARIZONA

PARCEL #	AREA CODE	PRIMARY TAX RATE PER \$100 ASSESSED VALUE	SECONDARY TAX RATE PER \$100 ASSESSED VALUE	IRRIGATION DISTRICT \$ PER ACRE	PRIMARY PROPERTY TAX
944-00-000 4	0000	6.0621	0.4839		331.00
					LESS STATE AID TO EDUCATION
					0.00
					NET PRIMARY PROPERTY TAX
					331.00
					SECONDARY PROPERTY TAX
					12.24
					SPECIAL DISTRICT TAX
					0.00
					TOTAL TAX DUE FOR 2010
					343.24

	VALUE IN DOLLARS	ASSTMT %	ASSESSED VALUE	EXEMPTIONS	TAX RATE	TAX
LIMITED LAND, BLDGS, ETC	0	21.0	0	0	6.0621	0.00
LIMITED PERSONAL PROPERTY	25,000	21.0	5,460	0	6.0621	331.00
LIMITED TOTALS	25,000		5,460			331.00
FULL CASH LAND	0	21.0	0	0	0.4839	0.00
FULL CASH BUILDINGS, ETC	0	0.0	0	0	0.0000	0.00
FULL CASH PERSONAL PROPERTY	25,000	21.0	5,460	0	0.2242	12.24
FULL CASH TOTALS	25,000		5,460			12.24

JURISDICTION	2009 TAXES	2010 TAXES
EQU	145.34	143.48
07899 COUNTY EDUCATION DIS	18.18	19.46
08150 COCHISE COUNTY JUNIO	75.49	80.79
11900 FIRE DISTRICT ASSIST	88.41	87.27
14900 COCHISE COUNTY LIBRA	4.80	4.32
15000 COCHISE COUNTY FCD #	7.98	7.92
	0.00	0.00
TOTALS	340.20	343.24

944-00-000 4
 0054047 01 AT 0.354 **AUTO T9 D 0786 85611-973974 PAGE 0001 OF 0001 00063536
 PARKER LAKEVIEW ESTATES
 HOMEOWNERS ASSOCIATION
 HC 1 BOX 474
 ELGIN AZ 85611-9739

PAYMENT INSTRUCTIONS
 To pay the 1st half installment and full year tax notices of \$100 or less, send the 1st half coupon with your payment postmarked no later than Nov. 1, 2010. To pay the 2nd half installment, send the 2nd half coupon with your payment postmarked no later than May 2, 2011. To pay taxes for the full year if the entire amount billed per notice exceeds \$100, send the 1st half coupon with your payment postmarked no later than Jan. 3, 2011 and no interest will be charged for current year.

Make your check payable to and mail to:
 Marsha Bonham
 Cochise County Treasurer
 PO Box 1778
 Bisbee AZ 85603-2778

1050
 11/5/10

THERE WILL BE A CHARGE FOR EACH RETURNED CHECK AND YOUR TAXES WILL REVERT TO AN UNPAID STATUS.

PLEASE INCLUDE YOUR PARCEL NUMBER ON YOUR CHECK.

PARKER LAKEVIEW ESTATES HOA
 DBA PARKER SPRINGS WATER CO.
 HC 1 Box 474
 Elgin, AZ 85611-9739

1050
 91-9271221 2033
 0739047891

11-5-10 DATE

PAY TO THE ORDER OF Marsha Bonham Cochise Co. Treas \$ 343.24
Three hundred forty three and 24/100 DOLLARS

FOR 944-00-000 4 0122 006 Paul Quinn

2010 Shown as reference for up to date status.

Not included in this Comparative Statement

Company Name: Parker Lakeview Est HOA, Inc

Test Year Ended 10-30-2010

Name of System: Parker Springs

ADEQ Public Water System Number: 02045

Westland Engineering Study ADEQ Evaluations

3 copies

TABLE OF CONTENTS

INTRODUCTION 1

EXISTING SYSTEM AND OPERATION 2

Existing Well Site 2

10,000-Gallon Reservoir 2

Pipeline and Other Water System Features 3

ENGINEERING DESIGN CRITERIA 4

Current Water Demand 4

Projected Future Demands 5

Well Capacity 6

Storage 6

Water Distribution Criteria 7

Hydraulic Modeling 7

WATER QUALITY 7

Tests Performed 9

Test Results 9

SYSTEM RECOMMENDATIONS 9

Source Water 12

Storage 12

Pressure Boosting 13

Pipeline Improvements 14

Costs and Hook-Up Fee Discussion 14

LIST OF FIGURES
(Follows text)

- Figure 1. Location Map
- Figure 2. Existing Water Infrastructure
- Figure 3. System Recommendations

LIST OF TABLES

Table 1. Existing Well Details 2

Table 2. Laboratory Water Quality Sampling Results 9

Table 3. Field Water Quality Sampling Results 10

LIST OF APPENDICES

- Appendix A. Hydrology Report
- Appendix B. Hydraulic Modeling Results
- Appendix C. Water Quality and MPA Results
- Appendix D. Solar Well Pump and Motor System
- Appendix E. Concept Site Layouts
- Appendix F. OPCC for System Recommendations

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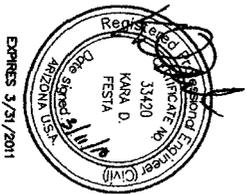
WATER SYSTEM ASSESSMENT
PARKER SPRINGS WATER COMPANY

Prepared for:

PARKER SPRINGS WATER COMPANY
HC1 Box 474
Elgin, Arizona 85611

Prepared by:

WESTLAND RESOURCES, INC.
4001 E. Paradise Falls Drive
Tucson, Arizona 85712
(520) 206-9585



MARCH 2010
Project No. 1638.01

LIST OF ACRONYMS

AAC	Arizona Administrative Code
ADD	average day demand
ADEQ	Arizona Department of Environmental Quality
ADPM	Average Day Peak Month
ADWR	Arizona Department of Water Resources
bis	below land surface
DBP	disinfection by product
ft	feet
gpd	gallons per day
gpm	gallons per minute
HDPPE	high-density polyethylene
HP	horsepower
in	inch
lf	lineal feet
MCL	maximum contaminant level
Mg/L	milligrams per liter
MIDF	Maximum Instantaneous Demand Flow
ml	milliliter
MPA	Microscopic Particulate Analysis
NSF	National Sanitation Foundation
NTNCWS	Non-Transient, Non-Community Water System
NTU	Nephelometric Turbidity Units
OPCC	Opinions of Probable Construction Costs
PDD	peak day demand
psi	pounds per square inch
PSWC	Parker Springs Water Company
PVC	polyvinyl chloride
RU	Rural
TDH	total dynamic head
TDS	total dissolved solids
TOC	total organic carbon
UV	ultraviolet
VFD	variable frequency drive
WIFA	Water Infrastructure Finance Authority
µm	micrometer

INTRODUCTION

The purpose of this report is to provide a summary of the water system assessment conducted for the Parker Springs Water Company (PSWC). The existing PSWC serves 40 existing customers in the Parker Lakeview Estates via a single well with a capacity of approximately 10 to 12 gallons per minute (gpm), located adjacent to Parker Canyon Lake. The well delivers directly into the water system, and fills a 10,000-gallon potable water storage tank which floats the water system. A location map is included as Figure 1. The PSWC is utilizing a Water Infrastructure Finance Authority (WIFA) Technical Assistance grant to develop this engineering and hydrogeological assessment to evaluate the deficiencies in the existing system and develop an approach and projected costs for addressing those concerns. The following tasks were performed as part of this assessment:

- Site visits to survey existing infrastructure and system features.
- Demand analysis for the existing customers including actual data for water usage.
- Projections of potential ultimate demand of the water system.
- Hydraulic modeling analysis, using site visit data and demand information.
- Water quality sampling of the well and lake water.
- A hydrogeological assessment of the PSWC area for new well recommendations. The hydrogeological assessment was performed by BasinWells Associates, PLLC (BasinWells) and is included with this report as Appendix A.
- A priority analysis for system upgrades and improvements including cost estimates.

EXISTING SYSTEM AND OPERATION

As previously mentioned, the existing PSWC currently serves 40 customers (Figure 2). These customers consist of single-family homes in the Parker Lakeview Estates subdivision, as well as a majority of water use occurs on weekends and holidays, as there are only 3 to 5 customers that are full-time residents. The water system has a single well located near Parker Canyon Lake, which delivers into the water system. This well fills a 10,000-gallon potable water storage tank which floats in the water system. The well is operated automatically by level in the 10,000-gallon tank using radio telemetry. The reservoir is located such that the high water elevation of the tank is not significantly higher than the highest homes served. The pipeline distribution system is made up of galvanized steel and poly vinyl chloride (PVC) ranging from 1.5-inch to 4-inch in diameter. Additional information on the system features is included in the following sections.

EXISTING WELL SITE

The well which serves the PSWC is located approximately 1,600 feet west of the Parker Lakeview Estates, adjacent to the Parker Canyon Lake. The Arizona Department of Water Resources (ADWR) Well Identification number is 55-621240. The well is equipped with a submersible pump and motor which currently provides approximately 10 to 12 gpm, although the flow is reported to have been as low as 6 gpm at times. The pump motor is a Goulds Model No. S08940, 2 horsepower (HP), 230 volt submersible motor. The actual pump model information was not available. The well pump is run by one of two propane generators located near the well site. Details on the well are shown in Table 1. A photo of the well site is included as Photo 1.

Table 1. Existing Well Details

Well Pad Elevation (ft)	5,402
Well Casing Diameter (in)	12
Column Pipe Diameter (in)	1-1/4, Schedule 80 PVC
Well Depth (feet b/s, reported in ADWR records)	125
Static Water Level (feet b/s, reported in ADWR records)	10
Pumping Water Level (ft b/s)	varies
Pump Setting Depth (ft b/s)	105
Discharge Pressure (static)* (psi)	90
Discharge Pressure (pumping)* (psi)	170
Flow Rate** (gpm)	10 - 12

*Observed pressure in field - static pressure is calculated to be approximately 134 psi per the elevations obtained by GPS measurements, and pumping pressure is calculated to be approximately 136 psi from the hydrostatic heading for the reported pipe/line system.
**Estimated flow rate.

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Engineering and Environmental Consultants

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Photo 1. Parker Springs Wellhead

The existing well is equipped with a Pump Saver which shuts the motor off when the current drops. A sudden drop in current generally indicates that the water level has dropped to near the pump intake and the pump is beginning to draw in air. It has been reported that the Pump Saver frequently shuts down the motor during periods of prolonged pumping (more than a few hours), which indicates excess drawdown in the well. During the field testing the Pump Saver shut down the pump after the well had been operating for approximately three hours. It is believed that the static water level in the well changes seasonally in response to the level of the lake. This has been inferred by those familiar with the water system, because lower lake level generally appears to correlate to a shorter pumping cycle time before the Pump Saver turns off the pump. The well's proximity to the lake and the pumping response to lake level indicate possible surface water influence. The use of surface water or groundwater under the influence of surface water could result in additional requirements for sampling, disinfection, and/or filtration of the well water. Water sampling of the well and lake water was conducted as part of this evaluation and is discussed in the Water Quality section of this report.

Chlorination was added to the water system at the wellhead in late 2009. The chlorination system delivers chlorine (10 percent hypochlorite liquid) directly into the well casing while the pump is operating, for chlorination of the well water. The pressure at the discharge of the wellhead was too high for practical use of a chlorine metering pump at the wellhead.

10,000-GALLON RESERVOIR

The 10,000-gallon reservoir is located on the southeast side of the Parker Lakeview Estates and floats the system. The welded steel reservoir is approximately 12 feet high and 13 feet in diameter. The base elevation of the reservoir is approximately 5,704 feet, and the high water elevation is

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approximately 5,715. A PVC liner was installed in the reservoir in 2008. A photo of the reservoir is included as Photo 2.

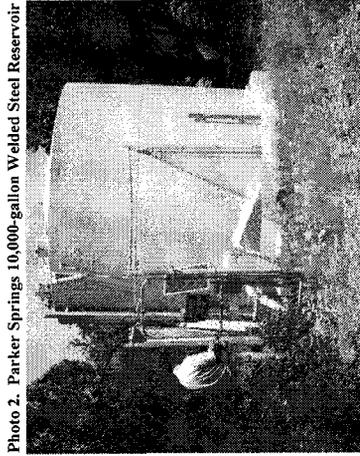


Photo 2. Parker Springs 10,000-gallon Welded Steel Reservoir

PIPELINE AND OTHER WATER SYSTEM FEATURES

The Parker Springs distribution system is composed of galvanized steel and PVC pipe ranging from 1.5 to 4 inches in diameter. The approximate location of existing water main including size and material is included in Figure 2. There are several blow-off valves located throughout the system which are used to periodically flush the lines. A photo of a blow-off is included as Photo 3. The elevation range throughout the water system ranges from 5,530 to 5,700 feet. The typical static pressure of the water system ranges from 5 to 80 pounds per square inch (psi).

Photo 3. Water Line Blow-off



ENGINEERING DESIGN CRITERIA

Engineering design criteria for analysis of the PSWC is provided in the following sections. The PSWC is classified as a Non-Transient, Non-Community Water System (NTNCWS) Public Water System by Arizona Department of Environmental Quality (ADEQ). Design criteria are based on standard assumptions for small water system engineering and ADEQ requirements for public water systems.

CURRENT WATER DEMAND

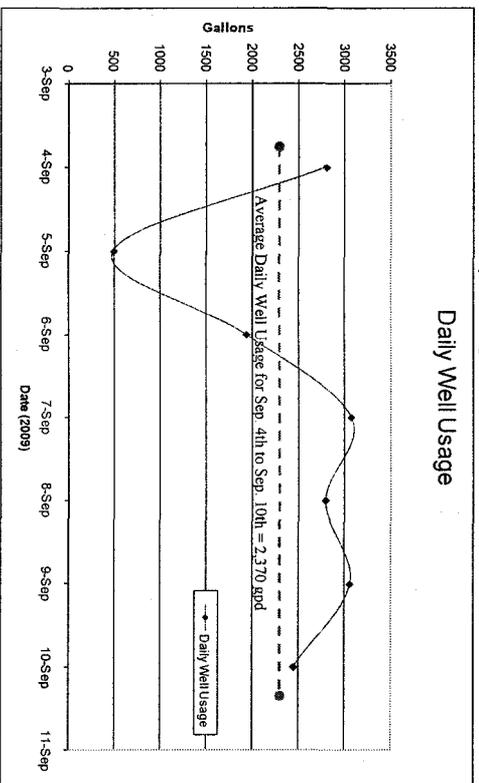
Determination of the appropriate water demand criteria is based on review of the ADEQ Maximum Instantaneous Demand Flows (MIDF) (Engineering Bulletin No. 10, Table 3), and actual data from the 2009 Labor Day weekend. It is assumed that the calculated ADEQ MIDF of 90.4 gpm greatly exceeds the actual peak usage for the PSWC due to the fact that only three to five of the 39 homes in the system are occupied year round. Actual data has been used to calculate average and peaking flows.

Annual water use records indicate that the total metered usage for the 12 month period from January 2009 through December 2009 was 381,200 gallons, or approximately 1,050 gallons per day (gpd). The well pumpage in 2009 was reported to be higher than metered usage by approximately 159,000 gallons, which equates to approximately 435 gpd and is roughly 30 percent lost and unaccounted for water. This quantity of lost and unaccounted for water is discussed further in the System Recommendations section of this report. The average day demand (ADD) based on the reported well pumping was 1,480 gpd. The peak month during that period was May 2009, with a monthly well pumpage of 61,300 gallons, which equates to an Average Day of the Peak Month (ADPPM) of approximately 1,980 gpm.

Typical peak day factor for a water system is 2.0 times the average usage. Due to the nature of the system, there was question as to the applicability of this peaking factor. Therefore, this study reviewed the actual daily peaking usage over a holiday weekend that would be expected to be one of the highest usage periods of the year.

Well flow meter totalizer readings were collected at 9:00 a.m. each day for the period starting Friday, September 4, 2009, and ending Thursday, September 10, 2009. Labor Day was Monday, September 7, 2009. This weekend has a high relative occupancy due to the summer holiday period, and these usage rates are considered to be a good representation of peak day demand (PDD). Total daily well usage for each 24 hour period is shown on the following chart. The average daily well usage for the entire period shown in the chart was 2,370 gpd or 1.6 gpm, which is approximately 60 percent higher than ADD. Well usage varies from day to day as a result of the well responding to level in the 10,000-gallon tank and not always in immediate response to demands within the system. However, the daily average over a week is representative of actual water usage, and several days of high pumping would be representative of the expected peak day usage. The PDD is approximately 3,100 gpd or 2.1 gpm, which is approximately 2.1 times the ADD.

Daily Well Usage Chart for 9/4/09 to 9/10/09



PROJECTED FUTURE DEMANDS

There are 39 existing customer meters for the homes in the Parker Springs subdivision. Some homes occupy multiple lots under common ownership, and the 39 customers appear to utilize 53 lots. The existing subdivision includes approximately 66 currently unoccupied lots. Because it is likely that some new customers would also utilize more than one lot for a new home, it is anticipated that there are a total of approximately 50 additional potential future customers in the subdivision. Therefore, the overall usage in the water system could be up to 2.3 times greater at buildout than the current usage.

For purposes of projecting future usage, it is assumed that the lost and unaccounted for water at buildout will be 10 percent. The ADD at buildout is projected to be approximately 2,650 gpd, with an ADPM of 3,600 gpd, and PDD of 5,550 gpd or 3.9 gpm. Based on the current rate of one to three new customers per year, it is expected that the buildout of the water system may take 20 to 30 years.

WELL CAPACITY

Well capacity design is generally based on the PDD of the water system. The existing PSWC well typically pumps 10 to 12 gpm. As calculated previously, the estimated PDD of the PSWC is 2.1 gpm. The existing well appears to meet the current PDD of the system; however, as previously mentioned there are concerns with sustained pumping of the existing well. The PDD for the water system is approximately 3,100 gpm, which requires the well to pump for a total of approximately 5 hours. The well

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is currently capable of this service; however, the well must be operated over multiple periods of pumping, allowing the well to rest for several hours in between to achieve the required capacity. A discussion of recommendations for future well drilling and abandonment of the existing well is included in the System Recommendations section of this report.

STORAGE

The Arizona Administrative Code (A.A.C.) R18-5-503A states that the minimum storage capacity for a public water system shall be equal to the average daily demand during the peak month of the year. As calculated above, the ADPM of the PSWC is approximately 1,980 gpd. A conservative engineering recommendation would be to provide enough storage volume to meet PDD of the water system, which is 3,100 gpm. The reservoir has a capacity of 10,000 gallons, which more than meets both the ADEQ requirement and the engineering recommendation. This size provides for several days of storage even at peak usage; the excess volume is helpful when dealing with the sporadic pumping ability of the well, but is not so large that there are concerns about stagnation and water age. A discussion of recommendations regarding the reservoir is included in the System Recommendations section of this report.

WATER DISTRIBUTION CRITERIA

The design of a water distribution system is generally based on providing the required flows while minimizing headloss and meeting the ADEQ requirement to maintain 20 psi throughout the entire water system under all conditions of flow. The ADEQ Bulletin No. 10, Chapter 7, Item C provides additional requirements for water main and system design. Other requirements provided by ADEQ include a minimum of 3 feet of cover over all pipelines, National Sanitary Foundation (NSF) 61 approval for all pipelines and other water system equipment, and a minimum of 4-inch diameter pipeline. In addition to the size and material used for a water distribution system there are several features which should be considered including: flow meters, blow-off valves, air release valves and isolation valves.

The PSWC system is configured such that the reservoir is directly adjacent to two homes which are served by gravity directly from the reservoir. Due to the low pressure, these homes require booster stations to supply adequate pressure. In addition, the pressure available at the meters is too low to allow for the proper operation of a backflow preventer. There are several other homes or home sites just downhill from the reservoir at elevations that result in pressures in the water system of less than the 20 psi minimum operating pressure that is required per the A.A.C. Code R18-5-502 B. The System Recommendations section of this report contains a discussion of suggested modifications to the operation of the system to address the 20 psi minimum pressure criteria.

HYDRAULIC MODELING

A hydraulic computer model of the PSWC system was developed using the Bentley WaterCAD software program, to review water system pressures, headloss gradients, and velocities in the pipelines in the

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 7

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PSWC under peak operating conditions. The model uses pipe lengths and elevations observed in the field using GPS equipment. The demand scenario modeled is that of the MIDF for Residential Use as described in the ADEQ Engineering Bulletin No. 10. The maximum instantaneous flow for 40 connections is 92 gpm, which is considered to be conservative given the seasonal usage of the Parker Lakeview Estates. The well discharge for the hydraulic modeling is assumed to be 12 gpm.

The model was run with the above inputs and the results were reviewed and compared to conditions observed in the field. The static pressure at the wellhead was calculated by the hydraulic model to be 135 psi, as compared to the 90 psi observed at the pressure gauge on the wellhead in the field. The pressure at the wellhead is dictated by the elevation difference between the well head and the tank high water and the headloss in the fill line. It seems likely that the pressure gauge is not properly registering the actual pressure. The operating pressure was calculated to be 137 psi, as compared to 170 psi observed in the field. The well fills the PSWC tank via a little over 1/4 mile of 2-inch water main with no services, followed by approximately 1,000 lineal feet (lf) of 4-inch water main. The headloss in the fill line is dependent on the flow rate and the inside diameter of the pipe. The discrepancy in the calculated wellhead operating pressure and that observed in the field is likely due to an obstruction or bottleneck in the fill line, such as tuberculation that has greatly reduced the inside diameter of the line, or a partially closed valve. To obtain 170 psi at the wellhead in the hydraulic model, the fill line inside diameter must be reduced to 1.2 inches at 12gpm.

An additional observation from the hydraulic modeling results is the low pressure provided to some homes near the elevation of the storage tank. This is caused by the fact that the system is served by gravity and the elevation differences between the tank high water and the house connections near the tank are not large enough to create pressures greater than 20 psi to some areas of the water system. ADEQ requires a minimum of 20 psi everywhere in the distribution system under all conditions of flow. The model shows pressures as low as 13 psi at the east end of South Coronado Trail. The two homes located at roughly the same bottom elevation as the storage tank will have pressures no greater than 5 to 7 psi at the meter. Possible solutions for raising low system pressures are included in the System Recommendations section of this report.

A printout of the hydraulic model and the junction and pipeline results for the peak flow scenario described above are included in Appendix B.

WATER QUALITY

Water quality samples of the existing PSWC well and the Parker Canyon Lake were taken as part of this evaluation. Water quality sampling was performed to review the degree of influence that the Parker Canyon Lake has on the well water, and to observe the general water quality of the well.

TESTS PERFORMED

Secondary contaminant and total organic carbon (TOC) tests were performed on both the well water and the lake water. The samples were taken on September 30, 2009 and analyzed by Turner Laboratories, Inc. Test results are included in Appendix C and summarized in Table 2. In addition to the secondary contaminant and TOC tests, a Microscopic Particulate Analysis (MPA) was performed. The MPA test involves the identification, sizing and population estimates of microorganisms and organic or inorganic debris found in water. Samples for MPA are collected by passing water through a cartridge filter with a nominal pore size of one micrometer (μm). In the laboratory, particles trapped on the cartridge filter are washed from the filter, concentrated to a small volume, and observed at 100 to 1,000 magnifications using light microscopy.

TEST RESULTS

The secondary contaminant and TOC test results are summarized below in Table 2.

Table 2. Laboratory Water Quality Sampling Results

Analysis	Well Water	Lake Water
Hardness (mg/L)	170	NT
pH (pH units)	7.5	8.5
Turbidity (NTU)	0.75	1.4
Calcium (mg/L)	56	29
Copper (mg/L)	0.071	ND
Iron (mg/L)	ND	ND
Magnesium (mg/L)	7.5	4.0
Manganese (mg/L)	ND	ND
Sodium (mg/L)	15	8.0
Zinc (mg/L)	0.096	ND
Chloride (mg/L)	12	4.0
Sulfate (mg/L)	6.4	ND
Color	ND	ND
Alkalinity, Bicarbonate (As CaCO ₃)	190	86
Alkalinity, Carbonate (As CaCO ₃)	ND	20
Alkalinity, Hydroxide (As CaCO ₃)	ND	ND
Alkalinity, Total (As CaCO ₃)	190	110
Total Dissolved Solids (mg/L)	210	120
Total Organic Carbon (mg/L)	ND	12

ND - non-detect
NT - not tested

In addition to the laboratory testing, a pH/conductivity meter was used to take field measurements of the well and lake water. The results are provided in Table 3.

Table 3. Field Water Quality Sampling Results

Analysis	Well Water	Lake Water
pH (pH units)	6.8	7.6
Total Dissolved Solids (mg/L)	207	106
Conductivity (µS)	414	213

ND - non-detect
NT - not tested

The water quality analysis for inorganic compounds shows significant difference in alkalinity, total dissolved solids (TDS), pH, etc. between the well and lake water. There are several possible explanations, including that the well water is simply a groundwater source, that the well water is a mixture of sources including groundwater and water under the influence of the lake, or that there is enough soil aquifer treatment of the water before it reaches the well causing a significant difference in the water quality parameters. The well water turbidity was in the high end of the normal range for groundwater samples. It is noteworthy that the TOC was non-detect in the well water sample. TOC levels could have been a concern with respect to disinfection byproduct (DBP) formation from the chlorination at the wellhead; DBP formation is much less of a concern for water with a lower TOC content.

Although the secondary water quality sampling indicated significant differences between the lake water and well water, based on the MPA results (Appendix C), the Parker Springs well water is at high risk for influence of surface water. Although this test alone is not definitive regarding the topic, if it is ultimately determined that the well water is groundwater under the direct influence of surface water, federal regulations require the system must achieve at least 99.9 percent (3-log) removal and/or inactivation of *Giardia lamblia* cysts, 99.99 percent (4-log) removal and/or inactivation of viruses, and 99 percent (2 log) removal of *Cryptosporidium* before the first customer. Filtration, disinfection, and complicated monitoring and reporting are typically required for such a water system. Filtration may be avoided if the water system meets the following conditions:

1. The well water has fecal coliform concentration equal to or less than 20/100 ml or the total coliform concentration must be equal to or less than 100/100 ml. The turbidity level of the well water cannot exceed 5 Nephelometric Turbidity Units (NTU). The turbidity testing must be performed on representative grab samples every 4 hours or continuously prior to the disinfection point. For system serving less than 500 people, one fecal or total coliform sample must be tested once per week unless the turbidity of source water exceeds 1 NTU, in which case the fecal or total coliforms must be tested every day. The turbidity of the Parker Springs well water was 0.75 NTU for the sample collected on September 30, 2009.

2. The system provides sufficient disinfection to ensure at least 3-log inactivation of *Giardia lamblia* cysts and 4-log inactivation of viruses every day. The unfiltered system must sample their source water for *Cryptosporidium* at least twice per month for 12 months or once per month for 24 months to determine if 2-log or 3-log treatment for *Cryptosporidium* is required, if the system does not intend to provide 3-log treatment for *Cryptosporidium*. Chlorine oxide, ozone, or ultraviolet (UV) disinfection is required for inactivation of *Cryptosporidium* as chlorine is not effective for *Cryptosporidium* treatment.
 3. The water system must provide redundant disinfection components, including an auxiliary power supply with alarm to ensure that disinfectant application is maintained continuously while water is being delivered to the distribution system, or automatic shut-off of delivery of water to the distribution system whenever there is less than 0.2 mg/L of residual of disinfectant concentration in the water.
 4. Disinfectant concentration in the water entering the distribution system cannot be less than 0.2 mg/L for 4 hours. The residual disinfectant concentration in the distribution system cannot be undetectable in more than 5 percent of the samples each month, for any two consecutive months that the system serves water to the public.
 5. The water system must maintain a watershed control program which minimizes the potential for contamination by *Giardia lamblia* cysts, viruses, *Cryptosporidium* cysts in the source water.
 6. The water system must be subject to an annual onsite inspection by the State to assess the watershed control program and disinfection treatment process.
 7. The water system must not have been identified as a source of a waterborne disease outbreak, or if it has been so identified, the system must have been modified sufficiently to prevent another such occurrence.
 8. The water system must comply with the maximum contaminant level (MCL) for total coliforms in at least 11 months of the 12 previous months that the system served water to the public.
 9. The public water system must comply with the requirements for disinfection byproducts. The TOC analysis revealed a non-detect level of TOC in the well which would minimize the threat of disinfection byproducts. However, TOC levels in any new well drilled should be monitored.
- In addition, whether filtration is provided or not for the Parker Springs water system, it is likely a Certified Grade 1 Water Treatment System Operator and a Certified Grade 2 Water Distribution System Operator would be required if it is determined that the source water is groundwater under direct influence of surface water.

SYSTEM RECOMMENDATIONS

The following sections outlines recommendations for improving the PSWC infrastructure and operation based on the findings of the site visits and system surveys, water usage information and demand projections, hydraulic modeling, water quality sampling and the hydrogeologic assessment. The recommendations are illustrated on Figure 3.

SOURCE WATER

As previously mentioned in this report, the existing PSWC well has several concerns including excessive drawdown during prolonged pumping periods (2-3 hours of pumping can cause the Pump Saver to shut down the well) and possible surface water influence which brings up water quality and regulatory concerns. The continuous chlorination that has been installed at the wellhead is a good stop-gap measure, however, it is recommended that the well eventually be replaced with a new source. The goal of providing a new well for the water system would be to obtain more capacity and select a location that would eliminate the possibility of surface water influence. Alternative locations for drilling and incorporating a new well into the PSWC system were investigated as a part of this study. Locations for the new well were explored based on the results of the hydrogeologic assessment completed by BasinWells (Appendix A), and other engineering considerations about the water system.

The hydrogeologic assessment identified several locations which may yield a viable well based on a local well inventory and existing hydrogeologic data, and while considering yield, water quality and other factors. The possible locations were also reviewed with respect to availability, size, proximity to septic leach fields and zoning setbacks. The A.C.C. R18-5-502.D, Minimum Design Criteria, requires that... "A public water system shall not construct or add to its system a well which is located... within 100 feet of any existing septic tank or subsurface disposal system. Additionally, the zoning setback requirements for Rural (RU) zoning in Cochise County per Cochise County Planning and Zoning Article 6 are 20 feet for permitted principal uses, 40 feet for special uses, and 10 feet for accessory structures no larger than 120 square feet. The height requirements are 30 feet for principal and accessory structures and 8 feet for walls and fences. For conceptual purposes a setback of 10 feet is assumed, however, coordination with Cochise County is required at the time of design to confirm. Based on the available information, Lots 82, 69, and 95 were chosen as the three most suitable locations. The preferred location based on the hydrogeologic and engineering considerations is Lot 69. The location of Lot 69 is shown on Figure 3, System Recommendations.

The appropriate pump, motor and power system for the new well will be designed following drilling, construction, and testing of the well. Although the well design cannot be completed until the well is drilled and pumping rate and drawdown information is available, some concepts regarding the well equipping will be provided. The possible sites for the new well do not have power and would require a generator unless an alternative power supply is provided. The possibility of solar and wind energy as a power source was explored for the new well. Residents of the Parker Lakeview Estates have reported

trouble with wind turbines and it was determined that wind power would be too inconsistent to operate the well. A solar system was investigated and sized for application at the new well site. The pump, motor and solar panel array selected for the existing system based on the estimated total dynamic head (TDH) are included in Appendix D. Concept site layouts for several possible well lots including solar panels and a well profile detail are included in Appendix E, to allow the water company to coordinate with Cochise County regarding any additional requirements.

The assumed PDD to be used for well design criteria is approximately 3,100 gpd for the current system and 5,600 gpm for buildout. WestLand recommends that an 8-inch well casing is installed making it possible for the installation of a second submersible pump in the future if demands increase and the well is capable of producing more water. The TDH required by the well pump would vary depending on the depth of water and the drawdown in the well. The depth to water is estimated in the report by BasinWells, and drawdown can be estimated, but the final situation and criteria for sizing the well pump must be determined following actual well drilling. The estimated depth to water at Lot 69 is 135 feet below surface (per the report by BasinWells), and the elevation difference from Lot 69 to the tank high TDH is approximately 35 feet. The drawdown and friction losses are estimated to be about 40 feet, for a TDH of approximately 210 feet. Assuming a runtime of 5 hours per day (standard for solar application sizing), the pump, motor and solar panel array were sized to provide a minimum of the PDD, or 3,100 gpd.

The selected number of solar panels could be increased to provide a higher demand if the pump was properly selected, or an additional pump could be installed in the same well if the additional well capacity is available. If the well capacity is not available, a second new well would be required. The selected system does not utilize a battery bank, although a battery supply could be added if desired. In the event that the solar panels are not providing enough power, a propane generator could be hooked up to power the pump motor. Because the pump utilizes a variable frequency drive (VFD) motor, the required generator size to provide flow from the well is quite small and would be easily portable.

STORAGE

The existing 10,000-gallon reservoir was equipped with a PVC liner in 2008 due to deterioration; however, the liner is only a temporary fix. Because of the condition of the existing reservoir, the PSWC will likely require the installation of a new storage reservoir in the next 5 to 10 years. It is recommended that a new high-density polyethylene (HDPE) tank be installed. WestLand recommends a new HDPE tank as opposed to a new welded steel tank due to the much lower cost. Locations for the new reservoir should be reviewed based on proximity to the water system and elevation as discussed in the Pressure Boosting section below; however, it is likely that the best possible location for the new reservoir is at the location of the existing reservoir. As previously mentioned, a capacity of 10,000 gallons more than meets both the ADEQ requirement and the engineering recommendation, and is an appropriate size to handle the fluctuations in demand and well supply.

PRESSURE BOOSTING

The hydraulic modeling results showed a low pressure area in the PSWC. Pressures were as low 13 psi in portions of South Coronado Trail, and the two homes adjacent to the reservoir are provided an estimated 5 psi meters. It is Westland's understanding that the homes adjacent to the reservoir have individual boosters to provide water at a more desirable pressure inside the homes. However, individual boosters as a remedy for low system pressure do not satisfy the intent of the ADEQ rule due to the backflow risk on the system lines. Every system served by gravity from a reservoir has a low pressure pipe discharging from the reservoir; however, because there are hose bibs and connections along the low pressure line in the PSWC it poses a higher backflow risk.

A new reservoir installed at a higher elevation would address the low pressure issues in the PSWC; however, it is unlikely that a higher elevation location for a new reservoir would be practical. Therefore, the installation of a new booster pump and parallel pipeline installed at the reservoir to serve those homes with dynamic pressures less than 20 psi is recommended. The booster and pipeline are shown on Figure 3, System Recommendations.

PIPELINE IMPROVEMENTS

Several segments of pipeline were replaced in the last 10 years and buried to a minimum of 36-inches depth per ADEQ requirements. The locations which are still in need of replacement or where the pipelines need to be installed at a deeper depth are shown on Figure 3, System Recommendations.

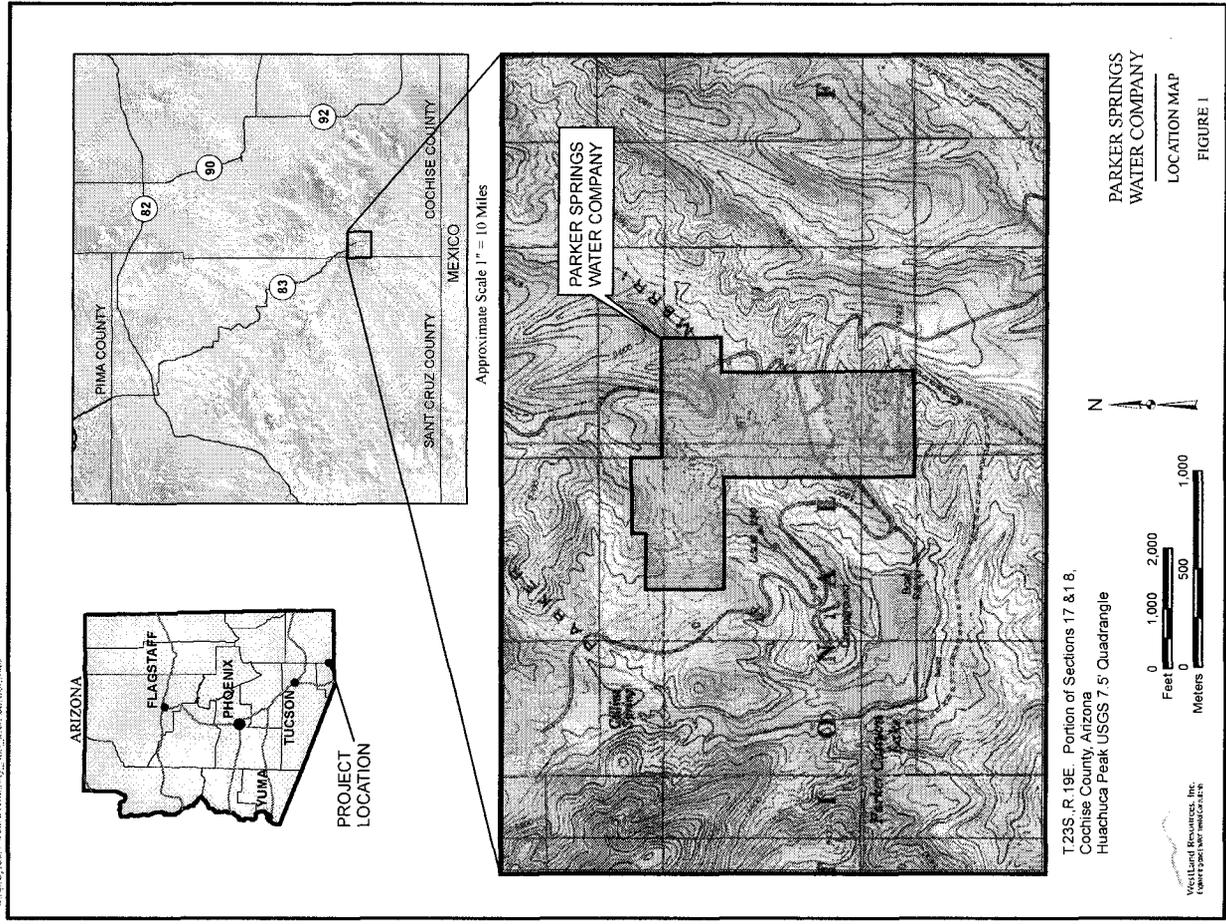
Lost and unaccounted for water has been an issue in the PSWC. The calculated lost and unaccounted for water was approximately 30 percent in 2009. This quantity of lost and unaccounted for water indicates either that there are fairly substantial meter discrepancies or lost water due to leakage in the water system. The water company has recently manually tested the majority of the service meters in the system, using a five gallon bucket to check the flow rate from a hose bib. A few meters were found to be reading inaccurately and were replaced. However, it is significant to note that the amount of lost water jumped fairly suddenly in June of 2009, from an average of less than 6,000 gallons per month for the previous six months, to an average of almost 18,000 gallons per month from June through December. This indicates a sudden change in some aspect of the water system, most likely a water leak. The water company has been alert for signs of a water leak in the system and has walked the waterline alignments that run cross-country, but has not been able to detect any significant loss in the system. If a leak is found in the process of replacing or rebuying existing lines it can be repaired.

COSTS AND HOOK-UP FEE DISCUSSION

The Opinion of Probable Construction Cost (OPCC) for the system recommendations discussed above and shown on the System Recommendations figure are included in Appendix F.

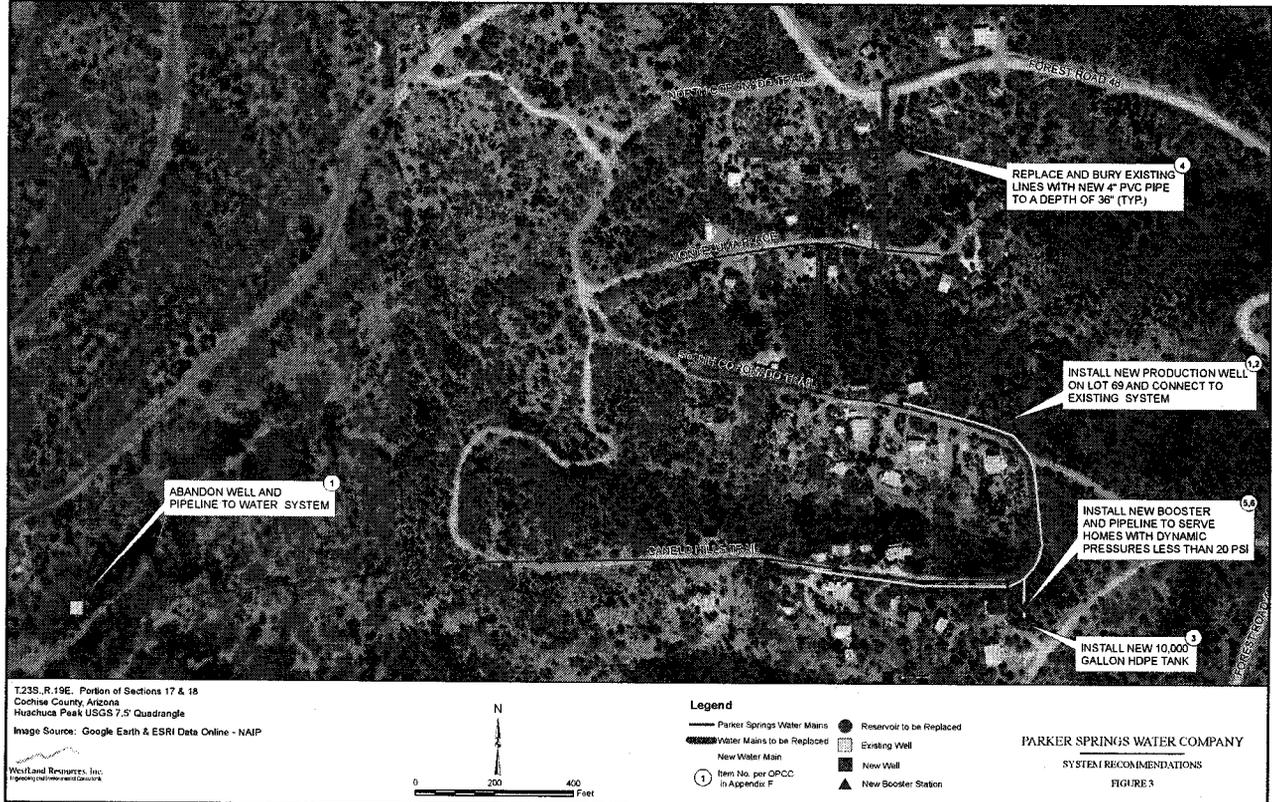
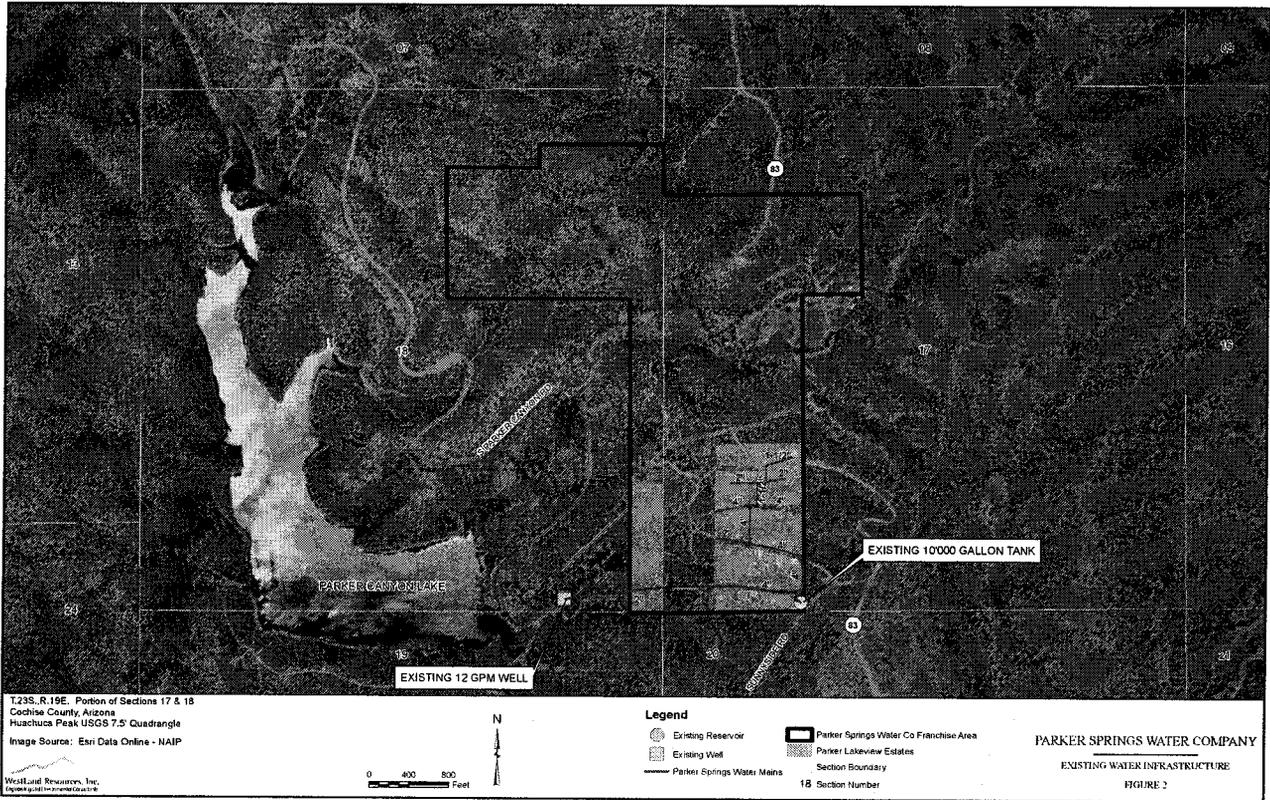
The upgrades to the PSWC will likely be oversized with respect to the requirements for the current system, to accommodate future connections. New upgrades to the PSWC which are oversized to benefit growth could be changed to new customers as a "hook-up fee". It is standard practice for water companies to charge hook-up fees to new development to recover the cost of the infrastructure required to supply the new demands. Development of a hook-up fee for the PSWC would entail breaking down the cost of the new infrastructure that is oversized for future growth and determining how many future customers those facilities would serve. For example, assuming that a well capable of providing 6,000 gallons per day of supply was drilled and equipped, approximately 1/2 of the well capacity would be available for future customers. For a total well project cost of \$10,000, the portion of the cost that is attributed to the 50 projected future customers that would be served by that capacity would result in a fee of \$1,000 per new connection. This type of fee could conceivably incorporate storage capacity and pipeline capacity that benefits new customers as well. The fees collected from new customers would be used to pay off the loans obtained to install the new facilities. An offsite facilities hook-up fee tariff must be approved by the Arizona Corporation Commission, and this is typically done as part of a regular rate case.

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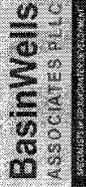


FIGURES

PARKER SPRINGS
WATER COMPANY
LOCATION MAP
FIGURE 1



TECHNICAL MEMORANDUM REPORT



TO: Kara D. Festa, P.E.
Vice President
Westland Resources, Inc.
4001 E Paradise Falls Drive
Tucson, AZ 85712

FROM: BasinWells Associates, PLLC

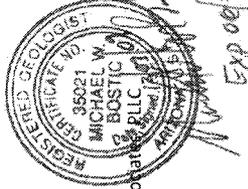
PREPARED BY: Buck Schmidt, Principal Hydrologist, BasinWells Associates, PLLC

REVIEWED BY: Michael Bostic, R.G., BasinWells Associates, PLLC

DATE: December 8, 2009

BC PROJECT NO.: 09-004

SUBJECT: Parker Springs Water Company Groundwater Resource Investigation,
Parker Canyon Lake, Arizona.



APPENDIX A

HYDROLOGY
REPORT

CONTENTS

1.0 INTRODUCTION..... 1

1.1 Objectives..... 4

1.2 Scope of Work..... 4

2.0 PHYSICAL SETTING..... 4

3.0 HYDROGEOLOGY..... 5

4.0 REPORTED WELL YIELDS AND GROUNDWATER QUALITY..... 8

5.0 POTENTIAL WELL SITES..... 9

6.0 CONCLUSIONS..... 12

7.0 RECOMMENDATIONS..... 12

8.0 REFERENCES..... 14

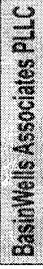
Attachments..... 15

AVAILABLE WELL INFORMATION..... 15

1.0 INTRODUCTION

Parker Springs Water Company (PSWC) is evaluating the potential of installing a new water supply well(s) to supply potable groundwater resources to residential homes within their water service area. PSWC's water service area consists of portions of Sections 17 and 18 of Township 23 South, Range 19 East, also designated as (D-23-19 17 and 18).

Currently PSWC develops groundwater resources from a single water supply well located within 100 feet of Parker Canyon Lake. The well is reported to have been installed in 1962, and is 125 feet in depth and 12 inches in diameter. Evidence provided by PSWC indicates that the well has poor sustainable groundwater production potential (<10 gallons per minute [gpm]). Secondly, given the proximity of the



well to Parker Canyon Lake groundwater developed from the well is likely influenced by surface water from the lake, and therefore may require a greater level of regulatory water quality monitoring and treatment per Arizona Department of Environmental Quality (ADEQ) requirements.

PSWC's Certificate of Necessity and Convenience (CC&N) water service area is shown on Figure 1 along with a well inventory illustrating the locations of Arizona Department of Water Resources' (ADWR) registered water supply wells in the study area (ADWR, 2009). Well information cross-referenced by Map ID #s (designated on Figure 1) is tabulated on Table 1. PSWC's well is noted as Map ID #28 on Figure 1.

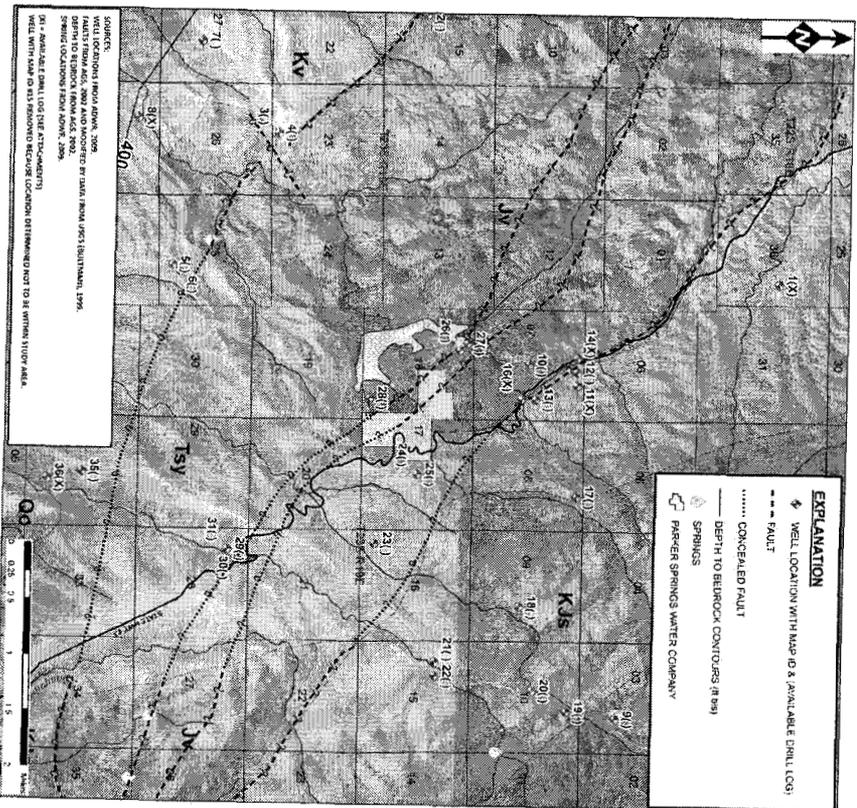


Figure 1 Study Area and Well Inventory Locations

BasinWells Associates PLLC

TABLE 1. WELL INVENTORY

MAP ID	REGISTRY # (55-)	CADASTRAL	INSTALLED	WELL DEPTH (FT BLS)	WATER LEVEL DEPTH (FT BLS)	CASING DIAMETER (IN)	PUMP RATE (GPM)	TEST RATE (GPM)	DRAWDOWN (FT)	CAL. SPECIFIC CAPACITY (GPM/FT)	DRILL LOG	OWNER
1	200761	D-23-18 30A0C		200		8	8	50			X	LINSEY
2	641392	D-23-18 15C1A										CORNADO NATL FOREST
3	604134	D-23-18 20C0D	Feb-1973	220	344	8	3	3				LONE MOUNTAIN RANCH
4	804890	D-23-18 20C0D										CORNADO NATL FOREST
5	604926	D-23-18 20C0D										CORNADO NATL FOREST
6	604925	D-23-18 20C0A	Jan-1975	260	215	6	3	3				LONE MOUNTAIN RANCH
7	640925	D-23-18 25D0A	Jan-1975									CORNADO NATL FOREST
8	576839	D-23-18 35A0C	Jun-2000	175	135	6	10	34				GILBERT
9	635377	D-23-19 03B0D	Mar-1899	300	38	8	35	35				HATHAWAY JD
10	627934	D-23-19 07	Jan-1968	180	40	6	8	4	135	0.03	X	EL CAZADOR CO
11	535836	D-23-19 07A0B	Apr-1992	180	40	6	10	10				SIMMONS RANDALLA
12	641060	D-23-19 07A0B		150								COLLINS CRYLND-CTL
13	820559	D-23-19 07A0C	Mar-1979									FREDMAN DANIEL J
14	520154	D-23-19 07B0A	May-1988	37	17	8	20	20	8	2.5	X	DICKENS
15	842424	D-23-19 07C0A	Feb-2008	240	224	5	14	36	64		X	BARRE
16	208239	D-23-19 07D0B										BARRE
17	590703	D-23-19 08A0A										SARIBON
18	640902	D-23-19 09D0A										X
19	641608	D-23-19 10A0B										LINDSEY
20	614471	D-23-19 10B0D	Jun-1976									CORNADO NATL FOREST
21	633372	D-23-19 15B0C	Dec-1898	27	15	48	34	34				CORNADO NATL FOREST
22	633374	D-23-19 15B0B	Jun-1902	27	12	48	34	34				LONE MTR RANCH INC
23	648803	D-23-19 15C0C										HATHAWAY JD
24	629861	D-23-19 17		130	30	8	35	35				CORNADO NATL FOREST
25	645970	D-23-19 17										HAYS-SAMPSON-PALACIO
26	641636	D-23-19 18A0A										PARKER CANYON LODGE
27	642729	D-23-19 18A0B										CORNADO NATL FOREST
28	612240	D-23-19 18A0B										CORNADO NATL FOREST
29	612475	D-23-19 28B0D	Jan-1962	135	10	12	10	10				PARKER SPRINGS WTR
30	612480	D-23-19 28B0D	Aug-1979	150	110	6	12	12				LONE MTR RANCH INC
31	613483	D-23-19 28B0D	Jun-1935	120	110	20	20	20				LONE MTR RANCH INC
32	612483	D-23-19 28B0D	Jun-1935	90	85	10	15	15				LONE MTR RANCH INC
33	640921	D-23-19 31C0A	Jun-1915	90	80	12	12	12				LONE MTR RANCH INC
34	635380	D-23-19 31C0A	Jan-1908	16	10	24	24	24				CORNADO NATL FOREST
35	803577	D-23-19 32		200	130	12	35	34				HATHAWAY JD
36	500586	D-23-19 37D0B	Feb-1982	300	120	9	150	100	50	2.0	X	MCKENNA, GREG
												WILLIAMS & MCKENNA

ADWR well locations are based on legal cadastral locations provided by owners and may not precisely locate actual locations. Some wells have a cadastral location with no quarter, quarter section delineation and may miss locate wells by as much as 0.5 miles. Legal locations only site wells to a maximum precision limit of the center of a 10 acre parcel, therefore multiple wells can be noted for a single well symbol. No field verifications of actual well locations was conducted for this investigation.)

BasinWells Associates PLLC

1.1 Objectives

The objectives of the groundwater resource investigation include:

- (1) Recommend location(s) for a new water supply well(s).
- (2) Recommend drilling method and preliminary well design including well depth and diameter.
- (3) Develop engineer's estimate of well installation costs.

1.2 Scope of Work

The scope of work of the groundwater resource investigation included compiling, tabulating and mapping the following information, where available, in the study area:

- (1) Well inventory
- (2) Identification of surface geologic features and anticipated stratigraphy
- (3) Identification and description of available aquifers
- (4) Estimation of basinfill thickness (if present)
- (5) Geologic structures (faults/fracture zones, if present)
- (6) Water level altitudes and general flow directions
- (7) Water level depths

This information was to be compiled from published reports, databases and other available information from the ADWR, the United States Geological Survey (USGS), the Arizona Geologic Survey (AGS) and other available published and unpublished reports.

More specific, local hydrogeologic information was compiled from the well registry database maintained by the ADWR (June, 2009), and a geophysical and subsurface geologic mapping investigation conducted by the USGS (Bultman, Mark W, 1999). A field reconnaissance investigation was conducted to groundtruth local geologic conditions and visit potential well drilling sites identified by PSWC to evaluate site access for well drilling and infrastructure constraints. The well site visits were performed with WestLand Resources, Inc. personnel.

2.0 PHYSICAL SETTING

PSWC's water service area is located on the northwestern margins of the San Rafael basin in the southwestern foothills of the Huachuca Mountains. Surface elevations in the water service area ranges from about 5,400 feet above mean sea level (amsl) at Parker Canyon Lake to over 5,700 feet amsl to the east. Huachuca Mountains rise to elevations over 9,000 feet amsl. The Canelo Hills are to the northwest.

Parker Canyon Lake, a man-made lake built in 1966, covers an area of about 132 acres just west of PSWC's water service area. Numerous ephemeral washes drain surface water and snow melt from local precipitation events to the southwest to the San Rafael basin. A number of springs reside in the study area (See Figure 1) most notably, Collins Spring, located in the northern portion of Parker Canyon Lake. The average annual precipitation rate for the Canelo area, about 5 miles northwest of the study area, is 18.09 inches per year with annual average snowfall of about 5 inches (Western Regional Climate Center).

3.0 HYDROGEOLOGY

The hydrogeologic setting of the study area consists of consolidated bedrock and basinfill sediments. The bedrock, based on a surficial geologic map (AGS, 2002), consists mostly of Tertiary to Jurassic age volcanic and sedimentary rocks (Kv, KJs, and Jv). Basinfill sediments consist of early Pleistocene to Middle Miocene conglomerate, sandstone and alluvial fan deposits (Qo and Tsy). Generalized surface geology within the study area is shown on Figure 1 and other subsequent figures.

Consolidated bedrock (Kv, KJs, and Jv) within the study area are transected locally in the northwest-southeast direction by the Sawmill Canyon Fault Zone (Bassett, K.N., 2005). Approximate locations of the main faults of the fault zone in the study area are illustrated on Figure 1 and other subsequent figures (AGS, 2002 and USGS, 1999).

Based on the geophysical investigation conducted by the USGS (1999), faults generally are high-angled (>~75 degrees) and dip generally to the southwest.

Basinfill sediments (Qo and Tsy), where present, overlie consolidated bedrock and conceal faults. These concealed faults as well as subsurface distribution of concealed consolidated rocks where investigated by a local geophysical investigation of the San Rafael basin by the USGS (1999).

Thickness of the basinfill sediments within the study area is derived from a single 400-foot bis depth to bedrock contour shown on Figure 1 and other subsequent figures (AGS, 2002) and drillers' logs (Attachments). Two wells, Map ID #s 8 and 36, located south of PSWC's water service area, penetrate only basinfill sediments (to depths of 175 and 300 feet). Two wells, Map ID #s 1 and 11, located north of PSWC's water service area penetrate only basinfill sediments (to depths of 180 and 215 feet). One additional well, Map ID #14, penetrates basinfill sediments (to a depth of 35 feet) and consolidated bedrock (to a depth of 37 feet). Thickness of basinfill sediments in the vicinity of the eastern portion of PSWC's water service area is uncertain, but likely increases to the east.

Groundwater in the study area occurs within fractures and joints of the consolidated rocks and within the matrix of the basinfill sediments. These saturated formations make up the available local aquifers. Reported depth to water measurements within completed wells in the study area are depicted on Figure 2 (ADWR, 2009). Spring locations depicted on the figure denote a depth to water that is at or near the land surface.

Depth to water in wells in the vicinity of the PSWC's water service area is 30 feet or less and in areas north, 40 feet or less. South of the water service area, entering the San Rafael basin, depth to water is greater than 100 feet.

Wells located at exposures of consolidated bedrock invariably develop groundwater from fractures and/or joints within these rocks. However, in areas where wells are located at exposures of basinfill sediments and no drillers' logs were available, it remains uncertain whether groundwater is developed from saturated basinfill sediments or underlying saturated fracture zones in consolidated bedrocks or both. This is uncertain because, thicknesses and degree of saturation of basinfill sediments is unclear based on available information.

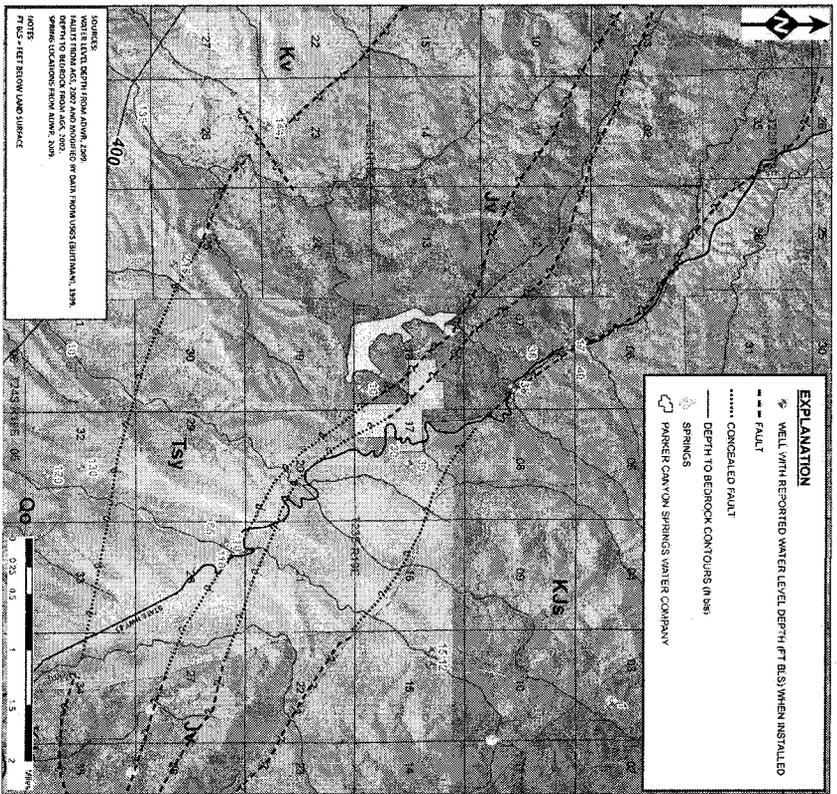


Figure 2 Reported Water Level Depths

Groundwater flow in the study area is governed by the distribution of groundwater recharge and discharge. Figure 3 depicts reported water level altitudes from measurements conducted on selected wells (ADWR, 2007). Based on these data, groundwater gradient is directed generally from the higher elevations of the Huachuca Mountains to the southwest to the San Rafael basin. Discharge of groundwater occurs at water supply wells and numerous springs in the area, and as underflow to the southwest to the San Rafael basin.

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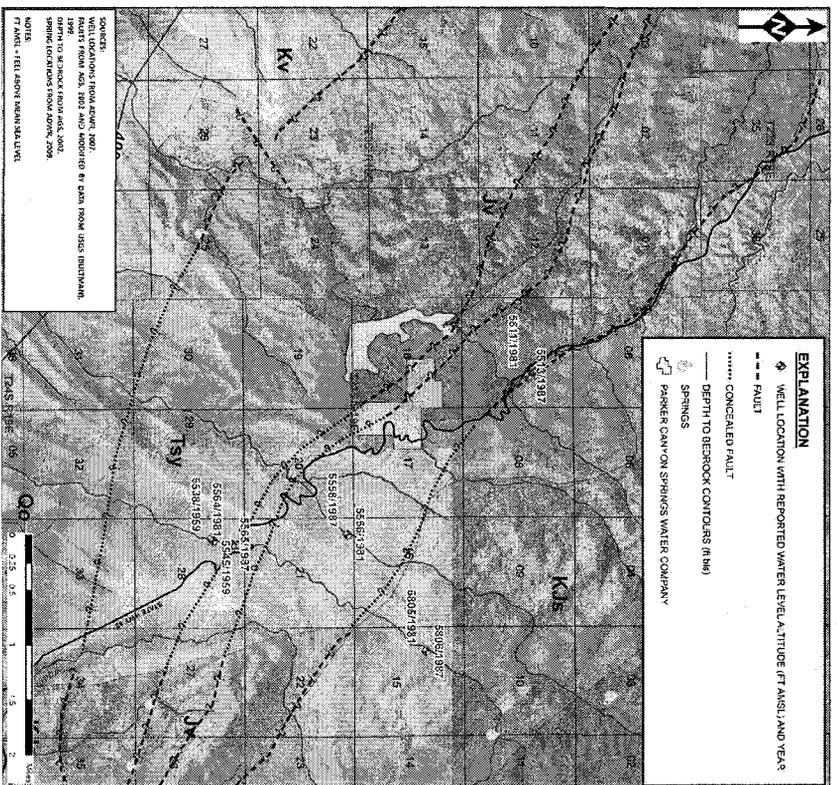


Figure 3 Reported Water Level Altitudes with Year

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TABLE 2. POTENTIAL WELL SITES

WELLSITE NAME	APPROXIMATE SURFACE ELEVATION (FT AMSL)	TARGET AQUIFER	SITE CHARACTERISTICS
Lot 62 Site	5533	Consolidated Bedrocks	Relatively flat site, good access.
Lot 88 Site	5483	Consolidated Bedrocks	Two level, after moderate access.
Lot 89 Site	5693	Basinfill Sediments	Steep terrain, poor access.
Corner Site	5539	Consolidated Bedrocks	Relatively flat site, good access.
Lot 95 Site	5416	Basinfill Sediments	Relatively flat site, good access.
Lot 53 Site	5547	Consolidated Bedrocks	Relatively flat to hilly site, moderate access.
Scott's Corner Site	5558	Consolidated Bedrocks	Relatively flat but rocky, poor access.
Stewart's Corner Site	5544	Consolidated Bedrocks	Relatively flat to hilly site, moderate access.

Based on the distribution of surface geology and information from USGS (1999), the western portion of PSWC's water service area has surface exposures of consolidated bedrock and the eastern portion has consolidated bedrock within the PSWC's water service area and thicknesses of the basinfill sediments overlie likely increase to the east. However, the thicknesses of the basinfill sediments within the water service area remains unknown, but is likely the greatest at the extreme eastern margins. ADWR requires that water supply wells for potable use cannot be located within 100 feet of septic tank systems. Based on information provided PSWC personnel, septic tanks are used at all homes within the residential area. Many lot sizes are relatively small, less than 1/3 of an acre, and may result in a fatal flaw not permitting the installation of a water supply well(s). Furthermore, leachate from septic tanks has a greater potential to negatively affect groundwater at potential well sites to the southwest than sites to the northeast since the groundwater gradient and flow is generally in the southwest direction.

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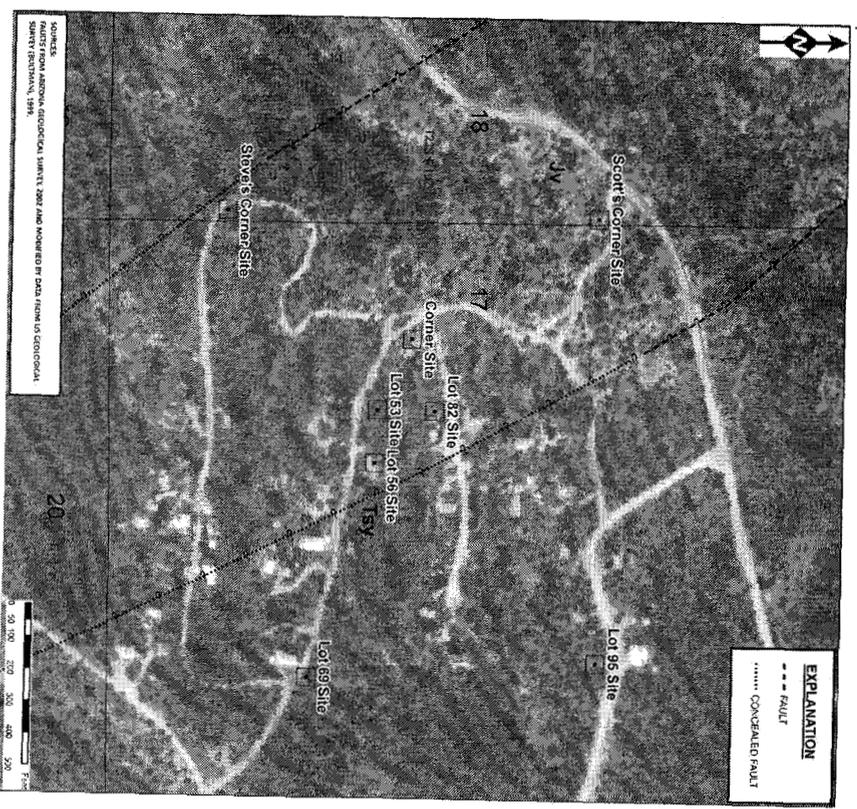


Figure 5 Potential Well Sites

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6.0 CONCLUSIONS

Conclusions derived from the groundwater resource investigation for the PSWC include the following:

- (1) Surficial rocks within PSWC's water service area include consolidated bedrock and basinfill sediments. The basinfill sediments occur in the eastern portion of the service area.
- (2) Within the study area, the reported highest yielding wells were completed within basinfill sediments or a combination of basinfill sediments and consolidated bedrock.
- (3) Several consolidated bedrock faults have been identified within the study area and have been projected to extend through the water service area. The degree of fracturing due to faulting beneath the water service area is unknown.
- (4) Within the study area only one well with Map ID #16 with yield and lithologic information appears to be completed entirely within consolidated bedrock. The well is completed to a reported depth of 202 feet with a reported well yield of 12 gpm.
- (5) Leachate from septic tanks have a greater potential to negatively affect groundwater at potential well sites to the southwest than sites to the northeast and east since the groundwater gradient and flow is generally in the southwest direction.

7.0 RECOMMENDATIONS

Recommendations derived from the groundwater resource investigation for the PSWC include the following:

- (1) Given the uncertainty of yield and groundwater quality potential at any of the potential well sites, exploration drilling and pilot hole analysis is recommended. Exploration drilling can be performed within a pilot hole that is often drilled for a completed well. (An exploration phase with pilot hole analysis is often initially conducted to evaluate the local hydrogeology and groundwater quality followed by the option to install a finished well.) Air-rotary drilling method is recommended. Drill stem tests should be performed as the boring is advanced to qualitatively assess the yield and groundwater quality potential.
- (2) Since areas with the greatest saturated thickness of basinfill sediments is considered to have the greatest yield potential, it is concluded that areas in the eastern portion of PSWC have the greatest yield potential as long it is determined that a portion of the basinfill sediments are saturated. Therefore, Lot 95 or Lot 69 sites are recommended for exploration drilling and pilot hole analysis as long as septic tank offset of 100 feet can be realized. If favorable yield and groundwater quality is realized, the pilot boring can then be reamed and a well completed based on a final well design. Furthermore, groundwater beneath these sites are likely least effected by leachate from local septic tank systems since most of the residential lots are down gradient of the sites.
- (3) Based on water level altitudes (Figure 3), groundwater gradient direction and approximate surface elevations of the Lot 95 and Lot 69 sites, depth to water at the sites are approximately 60 and 130 feet, respectively. Given these depths, exploration drilling should be advanced to a depth of about 300 to 350 feet.
- (4) If unfavorable yield potential is realized at either Lot 95 or Lot 69 sites from exploration drilling and pilot hole analysis (borehole subsequently abandoned per ADWR requirements), it is recommended that either Lot 82 or Lot 56 sites be explored as long as septic tank offset of 100

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feet can be realized. Saturated portions of the fracture zones of the consolidated bedrock is the target aquifer at these sites. (It is conjectured that the overlying basinfill sediments are very thin in the area and likely not saturated.) (Surface geophysical investigation may be useful to help evaluate the "best" available well site by evaluating the degree of fracturing of the consolidated bedrock beneath each well site.) Drill stem tests and pilot hole analysis should also be performed in a pilot hole at either of the two sites to evaluate yield and groundwater quality. Design features (i.e. bentonite and grout seals) should be included in the final well design that minimizes potential negative effects of area septic tank systems.

- (5) Depth to water at either Lot 95 or Lot 69 sites is uncertain based on available information. However, it is also recommended that exploration drilling also be advanced to a depth of about 300 to 350 feet.
- (6) The completed well should have a nominal diameter of 8 inches to accommodate anticipated pump specifications for current and future use. Based on information provided by well drillers whom have drilled wells in the area, approximate costs for an 8-inch diameter, 350 foot deep well ranges from \$40,000 to \$45,000 including drill stem tests and short-term pump test. If pump specifications warrant, a smaller diameter well may be sufficient, say 6 inches, therefore costs for well installation can likely be reduced by about 15 to 20 percent or more.

(7) BasinWells Associates, PLLC highly recommends that professional consulting services be provided to manage, facilitate, inspect and optimize the well installation, limit costs and document all phases of well installation. Below is a list of services that can be provided by BasinWells Associates, PLLC with approximate fees.

TABLE 3. RECOMMENDED CONSULTING SERVICES FOR WELL INSTALLATION WITH APPROXIMATE FEES

ITEM #	SERVICES	APPROX. FEES
1A	Develop well installation technical specifications including development of preliminary well design	~\$2,000
1B	Bid Services (administer bidding - front end contract documents provided by BasinWells Associates, PLLC)	~\$1,500
2	Well Permitting	~\$500
2A	Secure an ADWR well drilling permit including permit and application fees.	~\$500
2B	Secure an ADEC de-minimus discharge permit.	~\$500
3	Exploratory Drilling/Pilot Hole Analysis	
3A	Pilot Hole Analysis (Characterize drill cuttings - determine thickness of basinfill sediments and degree of saturation; observe drill stem tests; recommend installing of a well or not at the site; and recommend a final well design - final well depth and screen interval)	~\$2,500
3B	Collect groundwater samples during drill stem tests for water quality analysis (Arsenic, Fluoride, Nitrate, Sulfate, Total Dissolved Solids) including lab fees for 2 sets of samples	~\$1,000
	Well Installation Inspection	
4	Well Installation and Development Inspection	~\$2,000
	Well Testing Program and Final Acceptance	
5A	Observe short-term pump test - specific capacity measurement - evaluate sustainable yield and pumping level.	~\$500
5B	Collect New Source Approval groundwater samples for water quality analysis including lab fees.	~\$3,000
6	Final well completion report documenting pilot hole analysis and well installation and testing	~\$3,500
	Total for All Services	~\$17,000

Elements of the scope may be revised or conducted by others to limit fees. A more precise time-and-materials fee proposal can be provided at the request of PSWC.

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8.0 REFERENCES

Arizona Department of Environmental Quality, Ambient Groundwater Quality of the San Rafael Basin: An ADEQ 2002 Baseline Study, 2002.
Arizona Department of Water Resources, Water Atlas Section 3.12 San Rafael Basin, June, 2009.
Arizona Department of Water Resources, Well-55 Registry Database, June, 2009.
Arizona Department of Water Resources, Groundwater Site Inventory Database, July, 2007.
Arizona Geological Survey, Digital Spatial Data for the Geologic Map of Arizona, Edited by Stephen M. Bassett, Kari N. and Busby, Cathy, J., Tectonic Setting of the Glance Conglomerate along the Sawmill Canyon Fault Zone, Southern Arizona: A Sequence Analysis of an Intra-Arc Strike-Slip Basin, Geological Society of America, Special Paper 393, 2005.
United States Geological Survey, Bultman Mark W., Geometry, Structure, and Concealed Lithology of the San Rafael Basin, Southeastern Arizona, U.S. Geological Survey Open-File Report 99-399 Version 1.0, 1999.
Western Regional Climate Center, <http://www.wrcc.dri.edu/cgi-bin/cliMAIN.pl?az1231>

ATTACHMENTS

AVAILABLE WELL INFORMATION

REGULATORY WELL DRILLER REPORT
 JUN 23 2004
 Log
 Information Management
 This report should be prepared by the driller in detail and filed with the Department within 30 days following completion of the well.
 ** PLEASE PRINT CLEARLY **

WELL REGISTRATION NUMBER
 55-200761
 PERMIT NUMBER (IF ISSUED)

Review instructions prior to completing form
 This report should be prepared by the driller in detail and filed with the Department within 30 days following completion of the well.
 ** PLEASE PRINT CLEARLY **

SECTION 1 - WELL INFORMATION
 WELL OWNER: BYRD B LINDSEY
 FULL NAME OF COMPANY, ORGANIZATION OR INDIVIDUAL
 WELL ADDRESS: HC 1 BOX 344, ELGIN, AZ 85611
 CITY/STATE/ZIP
 CONTACT PERSON NAME AND TITLE
 TELEPHONE NUMBER: 520-455-9247
 FAX
 WELL LOCATION: 36 ACRES, 18E 36 NE 14 SE 14 SW 14
 WELL DEPTH (FEET): 215
 WELL TYPE: 1/8
 WELL PURPOSE: Cattle Pasture
 WELL STATUS: Active
 WELL DATE: 06/23/04
 WELL REGISTRATION NUMBER: 55-200761
 PERMIT NUMBER (IF ISSUED)

SECTION 2 - DRILLING AUTHORIZATION
 NAME: WATKINS DRILLING, INC.
 DWR LICENSE NUMBER: 710
 TELEPHONE NUMBER: 800-585-9355
 FAX
 METHOD OF LATITUDE/LONGITUDE (CHECK ONE)
 USGS Quad Map Conventional Survey GPS Hand-held Survey-Gate
 COUNTY ASSESSOR'S PARCEL ID NUMBER: 0
 MAP: 0
 PARCEL: 0
 COUNTY WHERE WELL IS LOCATED: Santa Cruz
 FEET ABOVE SEA LEVEL: 8450

SECTION 3 - WELL CONSTRUCTION DETAILS
 DATE WELL CONSTRUCTION STARTED: 1-25-04
 DATE WELL CONSTRUCTION COMPLETED: 1-25-04
 METHOD OF WELL DEVELOPMENT: Method of Sealing at Production Points
 CHECK ONE
 Air Rotary
 Bored or Augered
 Cable Tool
 Dual Rotary
 Mud Rotary
 Reverse Circulation
 Driven
 Jetted
 Air Percussion / Odex Tubing
 Other (please specify)
 CHECK ONE
 None
 Packed
 Swedged
 Welded
 Other (please specify)
 STATIC WATER LEVEL: [Blank]
 DATE MEASURED: [Blank]
 FEET BELOW LAND SURFACE: [Blank]

ENTERED JUN 23 2004

Well Driller Report and Well Log

SECTION 4 - WELL CONSTRUCTION DESIGN (AS BUILT)

DEPTH FROM SURFACE		BOTH HOLE DIAMETER (INCHES)		DEPTH FROM SURFACE		OUTER DIAMETER (INCHES)		IF OTHER TYPE, DESCRIBE		IF OTHER TYPE, DESCRIBE		SLOT SIZE IF ANY (INCHES)	
FROM (feet)	TO (feet)	FROM (feet)	TO (feet)	FROM (feet)	TO (feet)	FROM (feet)	TO (feet)	STEEL	P.V.	ABS	IF OTHER TYPE, DESCRIBE	SHUTTER SCREEN	MILLS KNIFE
0	20	12	17	20	87 1/4	20	87 1/4	X					
20	215	6 1/2	140	140	200	140	200	X				X	1/8

SECTION 5 - WELL CONSTRUCTION DETAILS

DEPTH FROM SURFACE		IF OTHER TYPE OF ANNUAL MATERIAL, DESCRIBE		IF OTHER TYPE OF ANNUAL MATERIAL, DESCRIBE		SIZE	
FROM (feet)	TO (feet)	CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	GROUT	CHIPS	PELLETS
0	20	X					

DEPTH OF BORING: 215
 FEET BELOW LAND SURFACE: 215
 DEPTH OF COMPLETED WELL: 200
 FEET BELOW LAND SURFACE: 200

STATE OF ARIZONA
DEPARTMENT OF WATER RESOURCES
15 South 15th Avenue
Phoenix, Arizona 85007



WELL DRILLER REPORT

This report should be prepared by the driller in all detail and filed with the Department within 30 days following completion of the well.

1. Owner C. Huck Dickkens Name Tucson Ariz. 85719
Mailing Address 1020 South Euclid Ave Tucson Ariz. 85719
2. Driller J T Pungin Name Phoenix Ariz. 85714
Mailing Address 207pm
3. Location of well: TR35 R19E SEC 7 NE NE NW
4. Permit No. 55-520154

DESCRIPTION OF WELL

5. Total depth of hole 37' ft.
6. Type of casing Steel
7. Diameter and length of casing 8 in. from 0 to 37 in from 0 to 0
8. Method of sealing at reduction points 20' Cement
9. Perforated from 10 to 37, from 0 to 0, from 0 to 0
10. Size of cuts 1/4" x 10' long Number of cuts per foot 3
11. If screen was installed: Length 0 ft. Diam 0 in. Type 0
12. Method of construction Shallow drilled, dug, driven, bored, jetted, etc.
13. Date started May 7 1988
Month Day Year
14. Date completed May 17 1988
Month Day Year
15. Depth to water 17 ft. (If flowing well, so state.)
16. Describe point from which depth measurements were made, and give sea-level elevation if available
17. If flowing well, state method of flow regulation:
18. Remarks:

DO NOT WRITE IN THIS SPACE
OFFICE RECORD
REG. NO. 55-520154
File No. D(23-197) 88
Entered FEB 23 1988

DEPARTMENT OF WATER RESOURCES
99 East Virginia
Phoenix, Arizona 85

55-520154
D(23-19)7 baa

COMPLETION REPORT

1. Per A.R.S. 845-600, the Completion Report to be filed with the Department within 30 days after installation of pump equipment by the registered well owner.
2. Drawdown of the water level for a non-flowing well should be measured in feet after not less than 4 hours of continuous operation and while still in operation and for a flowing well the shut-in pressure should be measured in feet above the land or in pounds per square inch at the land surface.
3. The static groundwater level should be measured in feet from the land surface immediately prior to the well capacity test.
4. The tested pumping capacity of the well in gallons per minute for a non-flowing well should be determined by measuring the discharge of the pump after continuous operation for at least 4 hours and for a flowing well by measuring the natural flow at the land surface.

LOCATION OF THE WELL:

Township 23 South Range 19 EAST Section 7 NE NE NW

EQUIPMENT INSTALLED:

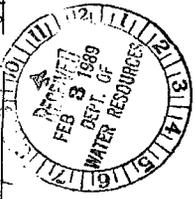
Kind of pump Electric Submersible
Turbine, centrifugal, etc.
Kind of power Electric Portable generator H.P. Rating of Motor 1/2
Electric, natural gas, gasoline, etc.
Pumping Capacity 20 Gallons per minute Date installed August, 88

WELL TEST:

Test pumping capacity 20 Gallons per minute Date Well Tested SEPT, 88
Method of Discharge Measurement 5 Gal. Bucket
Weir, orifice, current meter, etc.
Static Groundwater Level 15 ft. Drawdown 8
Total Pumping Lift 23 ft. Drawdown (Flowing Well) _____ lbs

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief.

DATE January 31, 1989 Signature Paul M. Disher



Address 12330 E. Snyder Rd.
City TUCSON State ARIZONA Zip 85749

DWR-55-7-1/84

ENTERED FEB 15 1988

Well Driller Report
 and
 Well Log

MAPID No. 16
 Record # 1111-11

* This report should be prepared by the driller in detail and filed with the Department within 30 days following completion of the well.
 ** PLEASE PRINT CLEARLY **

DEC - 2 2005

REGISTRATION NUMBER
 0231197 DAS
 WELL REGISTRATION NUMBER
 55-208289
 PERMIT NUMBER (IF ISSUED)

SECTION 1: DRILLING AUTHORIZATION

NAME: DEL RIO DRILLING & PUMP, INC.
 ADDRESS: 360 W. INDUSTRIAL RD.
 CHINO VALLEY, AZ 86323-9154

DWELL LICENSE NUMBER: 530
 TELEPHONE NUMBER: 928-636-4272
 FAX:

SECTION 2: REGISTRY INFORMATION

WELL OWNER: ROBERT D SANBORN
 MAILING ADDRESS: 2755 VIA DEL ESTE
 SIERRA VISTA, AZ 85550

LOCATION OF WELL:
 WELL LOCATION ADDRESS (IF KNOWN):
 TOWNSHIP (N/S), RANGE (E/W), SECTION: 23N / 19E / 7
 COUNTY: SIERRA VISTA
 PARCEL: 105 MAP 25 PARCEL 009

TELEPHONE NUMBER: 928-826-3822
 WELL NAME: DEL RIO

SECTION 3: WELL CONSTRUCTION DETAILS

Drill Method:
 Air Rotary
 Bored or Augered
 Cable Tool
 Dual Rotary
 Mud Rotary
 Reverse Circulation
 Jetted
 Air Percussion / Odeq Tubing
 Other (please specify)

Method of Well Development:
 Air Hit
 Bail
 Surge Back
 Surge Pump
 Other (please specify)

Condition of Well:
 Capped
 Pump Installed

Condition of Well:
 None
 Packed
 Swedged
 Welded
 Other (please specify)

DATE WELL CONSTRUCTION STARTED: 8/31/05
 DATE WELL CONSTRUCTION COMPLETED: 9/1/05

I state that this notice is filed in compliance with A.R.S. §45-556 and is complete and correct to the best of my knowledge and belief.

DRILLING BIRM: Del Rio Drilling & Pump
 SIGNATURE OF QUALIFYING PARTY: [Signature]
 DATE: ENTERED DEC - 9 2005

Well Driller Report and Well Log

WELL REGISTRATION NUMBER
 55-208289

SECTION 4: WELL CONSTRUCTION DESIGN (AS BUILT)

DEPTH OF BOREHOLE: 302' Feet Below Land Surface
 DEPTH OF COMPLETED WELL: 302' Feet Below Land Surface

WATER LEVEL INDICATION: DATE MEASURED: 9/1/05 TIME MEASURED: 10:30A
 STATIC WATER LEVEL: 360 Feet Below Land Surface
 IF FLOWING WELL, METHOD OF FLOW REGULATION: [] Valve [] Other

DEPTH FROM SURFACE	TO	BOREHOLE DIAMETER (Inches)	DEPTH FROM SURFACE		OUTER DIAMETER (Inches)	MATERIAL TYPE (X)		STEEL	PVC	ABS	IF OTHER TYPE, DESCRIBE	BLANK OR NONE	WIRE WRAP	SHUTTER SCREEN	MILLS KNIFE	SLOTTED	IF OTHER TYPE, DESCRIBE	SLOT SIZE IF ANY (Inches)	
			FROM	TO		TYPE	THICKNESS												
0'	19'	10"	19'	19'	7"	X													
19'	302'	6.5"	19'	302'	4.5"	X													
		6.5"	102'	208'	4.5"	X													

DEPTH FROM SURFACE	FROM (Inch)	TO (Inch)	ANNULAR MATERIAL TYPE (X)				IF OTHER TYPE OF ANNULAR MATERIAL, DESCRIBE	SAND	GRAVEL	SIZE
			CONCRETE	NEAT CEMENT OR CEMENT GROUT	CEMENT-BENTONITE GROUT	GROUT				
0'	19'			X						



99 East Virginia
Phoenix, Arizona 85004

Registration No. 55-500686
Owner of Williams/Mc Kennis
Well Site Williams/Mc Kennis
File No. D(23-19)32dcb

COMPLETION REPORT

1. Completion Report to be filed with the Department within 30 days after installation of pump equipment.
2. The tested pumping capacity of the well in gallons per minute for a non-flowing well should be determined by measuring the discharge of the pump after continuous operation for at least 4 hours and for a flowing well by measuring the natural flow at the land surface.
3. Drawdown of the water level for a non-flowing well should be measured in feet after not less than 4 hours of continuous operation and while still in operation and for a flowing well the shut-in pressure should be measured in feet above the land or in pounds per square inch at the land surface.
4. The static groundwater level should be measured in feet from the land surface immediately prior to the well capacity test.

LOCATION OF THE WELL

Date Well Completed Feb 23 Depth of Well 300'

1. Well Test:
 Test Pumping Capacity 100 (Gal. per min.) Date Well Tested Feb 23-82
 Method of Discharge Measurement Billora with weir
 (weir, orifice, current meter, etc.)
 Static Groundwater Level 120 ft. Drawdown 50' ft.
 Total Pumping Lift _____ ft. Drawdown _____ lbs.
 (Flowing Well)

2. Equipment Installed:
 Kind of Pump None will put turbine in Fall
 (Turbine, centrifugal, etc.)
 Kind of Power W.L. Wells H.P. Rating of Motor _____
 (Elec., Nat. Gas, Etc.)
 I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief.

Signature James Reed
 Address Box 245
 City Wilcox Ariz State 85643
 Date Mar 3, 1982

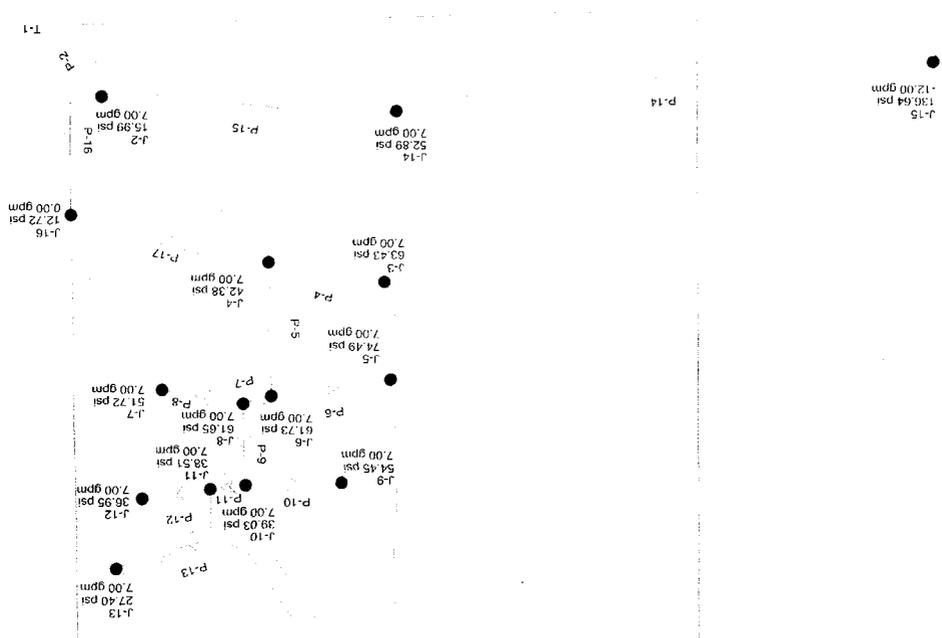
7-15-82-1

APPENDIX B

HYDRAULIC
MODELING
RESULTS

Label	Elevation (ft)	Zone	Type	Base Flow (gpm)	Pattern	Demand (Calculated) (gpm)	Hydraulic Grade (ft)	Pressure (psi)
J-15	5,680.00	Zone	Demand	7.00	Fixed	0.00	5,709.40	12.72
J-2	5,674.40	Zone	Demand	7.00	Fixed	7.00	5,711.35	15.99
J-13	5,608.80	Zone	Demand	7.00	Fixed	7.00	5,672.12	27.40
J-12	5,589.12	Zone	Demand	7.00	Fixed	7.00	5,674.53	36.95
J-11	5,585.84	Zone	Demand	7.00	Fixed	7.00	5,674.84	38.51
J-10	5,585.84	Zone	Demand	7.00	Fixed	7.00	5,676.05	39.03
J-4	5,608.80	Zone	Demand	7.00	Fixed	7.00	5,705.74	42.38
J-7	5,585.84	Zone	Demand	7.00	Fixed	7.00	5,705.37	51.72
J-14	5,569.12	Zone	Demand	7.00	Fixed	7.00	5,711.37	52.89
J-9	5,549.76	Zone	Demand	7.00	Fixed	7.00	5,675.62	54.45
J-8	5,562.88	Zone	Demand	7.00	Fixed	7.00	5,705.38	61.65
J-6	5,562.88	Zone	Demand	7.00	Fixed	7.00	5,705.55	61.73
J-3	5,559.60	Zone	Demand	7.00	Fixed	7.00	5,705.22	63.43
J-5	5,533.36	Zone	Demand	7.00	Fixed	7.00	5,705.53	74.49
J-15	5,402.16	Zone	Inflow	12.00	Fixed	-12.00	5,717.97	136.64

Scenario: Maximum Instantaneous Flow (91 gpm)
 Steady State Analysis
 Junction Report



Scenario: Maximum Instantaneous Flow (91 gpm)
Steady State Analysis
Pipe Report

Label	Length (ft)	Diameter (in)	Material	Hazen-Williams C	Control Status	Discharge (gpm)	Pressure Pipe Headloss (ft)	Headloss Gradient (ft/1000ft)	Velocity (ft/s)	Check Valve?	Minor Loss Coefficient	Upstream Structure Hydraulic Grade (ft)	Downstream Structure Hydraulic Grade (ft)
P-9	229.60	1.5	Ductile Iron	130.0	Open	35.00	29.34	127.78	6.35	false	0.00	5,705.38	5,676.05
P-11	98.40	2.0	Ductile Iron	130.0	Open	21.00	1.20	12.22	2.14	false	0.00	5,676.05	5,674.84
P-2	134.48	4.0	Ductile Iron	130.0	Open	-79.00	0.65	4.86	2.02	false	0.00	5,711.35	5,712.00
P-16	421.00	4.0	Ductile Iron	130.0	Open	77.00	1.95	4.63	1.97	false	0.00	5,711.35	5,709.40
P-17	573.00	4.0	Ductile Iron	130.0	Open	77.00	2.65	4.63	1.97	false	0.00	5,709.40	5,706.74
P-5	373.92	4.0	Ductile Iron	130.0	Open	63.00	1.19	3.19	1.61	false	0.00	5,706.74	5,705.55
P-13	419.84	1.5	Ductile Iron	130.0	Open	7.00	2.72	6.49	1.27	false	0.00	5,674.84	5,672.12
P-7	82.00	4.0	Ductile Iron	130.0	Open	49.00	0.16	2.00	1.25	false	0.00	5,705.55	5,705.38
P-14	1,521.92	2.0	Ductile Iron	130.0	Open	12.00	6.60	4.33	1.23	false	0.00	5,717.97	5,711.37
P-12	193.52	2.0	Ductile Iron	130.0	Open	7.00	0.31	1.60	0.71	false	0.00	5,674.84	5,674.53
P-4	328.00	2.0	Ductile Iron	130.0	Open	7.00	0.52	1.60	0.71	false	0.00	5,706.74	5,706.22
P-10	268.96	2.0	Ductile Iron	130.0	Open	7.00	0.43	1.60	0.71	false	0.00	5,676.05	5,675.62
P-6	337.84	4.0	Ductile Iron	130.0	Open	7.00	0.02	0.05	0.18	false	0.00	5,705.55	5,705.53
P-8	232.88	4.0	Ductile Iron	130.0	Open	7.00	0.01	0.05	0.18	false	0.00	5,705.38	5,705.37
P-15	829.84	4.0	Ductile Iron	130.0	Open	5.00	0.02	0.03	0.13	false	0.00	5,711.37	5,711.35

Title:
parker springs 083109 (corrected for meters to feet)
02/09/10 02:52:06 PM

Westland Resources Inc.
© Bentley Systems, Inc. Haestad Methods Solution Center Watertown, CT 06795 USA +1-203-755-1666

Project Engineer:
WaterCAD v7.0 [07.00.061.00]
Page 1 of 1

APPENDIX C
WATER
QUALITY
AND
MPA
RESULTS



Turner Laboratories, Inc.

Date: 10/23/2009

Client: Westland Resources
Project: Parker Springs 1614.01
Work Order: 09J0002
Date Received: 10/01/2009

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date/Time
09J0002-01	Well-Parker Springs	Ground Water	09/30/2009 1450
09J0002-02	Lake-Parker Springs	Surface Water	09/30/2009 1523

October 23, 2009

Dina Miller
Westland Resources
4001 E. Paradise Falls Drive
Tucson, AZ 85712

TEL (520) 206-9585
FAX (520) 206-9518

RE: Parker Springs 1614.01

Dear Dina Miller,

Work Order No.: 09J0002

Turner Laboratories, Inc. received 2 sample(s) on 10/01/2009 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Terri Garcia
Technical Director

2445 NORTH COYOTE DRIVE ■ SUITE #104 ■ TUCSON, ARIZONA 85745 ■ 520 862-5800 ■ FAX 520 862-9768

Turner Laboratories, Inc.

Date: 10/23/2009

Turner Laboratories, Inc.

Date: 10/23/2009

Client: Westland Resources
 Project: Parker Springs 1614.01
 Work Order: 0910002
 Date Received: 10/01/2009

Case Narrative

Client: Westland Resources
 Project: Parker Springs 1614.01
 Work Order: 0910002
 Lab Sample ID: 0910002-01

Client Sample ID: Well-Parker Springs
 Collection Date/Time: 09/30/2009 1450
 Matrix: Ground Water

ND Not Detected at or above the PQL
 PQL Practical Quantitation Limit
 DF Dilution Factor

Analysis	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
----------	--------	-----	------	-------	----	-----------	---------------	---------

Calculation								
Hardness, Ca & Mg	170			mg/l	1	10/02/2009 1130	10/07/2009 1401	RAJ

pH-E150.1								
pH (pH Units)	7.5	0.0			1	10/01/2009 0926	10/01/2009 0926	KRK
Temperature (°C)	11				1	10/01/2009 0926	10/01/2009 0926	KRK

Turbidity-E180.1								
Turbidity	0.75	0.10		NTU	1	10/01/2009 0945	10/01/2009 0945	KRK

ICP Total Metals-E200.2								
Calcium	56	4.0		mg/L	1	10/02/2009 1130	10/07/2009 1401	RAJ
Copper	0.071	0.020		mg/L	1	10/02/2009 1130	10/07/2009 1401	RAJ
Iron	ND	0.30		mg/L	1	10/02/2009 1130	10/07/2009 1401	RAJ
Magnesium	7.5	3.0		mg/L	1	10/02/2009 1130	10/07/2009 1401	RAJ
Manganese	ND	0.020		mg/L	1	10/02/2009 1130	10/07/2009 1401	RAJ
Sodium	15	5.0		mg/L	1	10/02/2009 1130	10/07/2009 1401	RAJ
Zinc	0.096	0.040		mg/L	1	10/02/2009 1130	10/07/2009 1401	RAJ

Anions by Ion Chromatography-E300								
Chloride	12	1.0		mg/L	1	10/01/2009 1700	10/02/2009 1222	JM
Sulfate	6.4	5.0		mg/L	1	10/01/2009 1700	10/02/2009 1222	JM

Color-SM1210 B								
Color	ND	15		Units	1	10/01/2009 1352	10/01/2009 1415	EW
pH (pH Units)	7.5			Units	1	10/01/2009 1352	10/01/2009 1415	EW

Alkalinity-SM1310B								
Alkalinity, Bicarbonate (As CaCO3)	190	1.0		mg/L	1	10/01/2009 1502	10/01/2009 1626	EW
Alkalinity, Carbonate (As CaCO3)	ND	1.0		mg/L	1	10/01/2009 1502	10/01/2009 1626	EW
Alkalinity, Hydroxide (As CaCO3)	ND	1.0		mg/L	1	10/01/2009 1502	10/01/2009 1626	EW
Alkalinity, Total (As CaCO3)	190	1.0		mg/L	1	10/01/2009 1502	10/01/2009 1626	EW

Total Dissolved Solids (Residue, Filterable, SM1250C)								
Total Dissolved Solids (Residue, Filterable)	210	20		mg/L	1	10/02/2009 0801	10/05/2009 1125	EW

Turner Laboratories, Inc.

Date: 10/23/2009

Client: Westland Resources
 Project: Parker Springs 1614.01
 Work Order: 09J0002
 Lab Sample ID: 09J0002-01

Client Sample ID: Well-Parker Springs
 Collection Date/Time: 09/30/2009 14:50
 Matrix: Ground Water

Date: 10/23/2009

Client: Westland Resources
 Project: Parker Springs 1614.01
 Work Order: 09J0002
 Lab Sample ID: 09J0002-02

Client Sample ID: Lake-Parker Springs
 Collection Date/Time: 09/30/2009 15:23
 Matrix: Surface Water

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Total Organic Carbon-SM4310 C	ND	0.50		mg/L	1	10/21/2009 1000	10/21/2009 1342	RAD
Organic Carbon, Total								

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
pH-E180J	8.5	0.0			1	10/01/2009 0926	10/01/2009 0932	KRK
Temperature (°C)	13				1	10/01/2009 0926	10/01/2009 0932	KRK
Turbidity-E180.1	1.4	0.10		NTU	1	10/01/2009 0945	10/01/2009 0945	KRK

ICP Total Metals-E200.7

Calcium	29	4.0		mg/L	1	10/02/2009 1130	10/07/2009 1405	RAD
Copper	ND	0.020		mg/L	1	10/02/2009 1130	10/07/2009 1405	RAD
Iron	ND	0.30		mg/L	1	10/02/2009 1130	10/07/2009 1406	RAD
Magnesium	4.0	3.0		mg/L	1	10/02/2009 1130	10/07/2009 1405	RAD
Manganese	ND	0.020		mg/L	1	10/02/2009 1130	10/07/2009 1406	RAD
Sodium	8.0	5.0		mg/L	1	10/02/2009 1130	10/07/2009 1405	RAD
Zinc	ND	0.040		mg/L	1	10/02/2009 1130	10/07/2009 1406	RAD

Anions by Ion Chromatography-E300

Chloride	4.0	1.0		mg/L	1	10/01/2009 1700	10/02/2009 1241	JM
Sulfate	ND	5.0		mg/L	1	10/01/2009 1700	10/02/2009 1241	JM
Color-SM2120 B	ND	15		Units	1	10/01/2009 1352	10/01/2009 1415	EW
pH (pH Units)	8.5			Units	1	10/01/2009 1352	10/01/2009 1415	EW

Alkalinity-SM1220B

Alkalinity, Bicarbonate (As CaCO3)	86	1.0		mg/L	1	10/01/2009 1502	10/01/2009 1626	EW
Alkalinity, Carbonate (As CaCO3)	20	1.0		mg/L	1	10/01/2009 1502	10/01/2009 1626	EW
Alkalinity, Hydroxide (As CaCO3)	ND	1.0		mg/L	1	10/01/2009 1502	10/01/2009 1626	EW
Alkalinity, Total (As CaCO3)	110	1.0		mg/L	1	10/01/2009 1502	10/01/2009 1626	EW

Total Dissolved Solids (Residue, Filterable)-SM12540 C

Total Dissolved Solids (Residue, Filterable)	120	20		mg/L	1	10/02/2009 0801	10/05/2009 1125	EW
--	-----	----	--	------	---	-----------------	-----------------	----

Total Organic Carbon-SM4310 C

Organic Carbon, Total	12	0.50		mg/L	1	10/21/2009 1000	10/21/2009 1401	RAD
-----------------------	----	------	--	------	---	-----------------	-----------------	-----

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 0920002 DATE 9/30/09 PAGE 1 OF 1

PROJECT NAME: <u>Parker Springs</u> # <u>1614.01</u>		CONTACT NAME: <u>Dina Miller</u>		COMPANY NAME: <u>Westland Resources</u>		ADDRESS: <u>4001 E. Paradise Falls Dr., Tucson</u>		PHONE: <u>206-9585</u> FAX: <u>206-9518</u>		SAMPLE'S SIGNATURE: <u>[Signature]</u>													
SAMPLE ID		DATE	TIME	LAB ID	SAMPLE MATRIX	CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX																	
<u>Well - Parker Springs</u>	<u>9/30/09</u>	<u>2:50</u>			<u>GW</u>	<input type="checkbox"/> Asbestos	<input type="checkbox"/> Bacteria	<input type="checkbox"/> Coliform	<input type="checkbox"/> Copper	<input type="checkbox"/> Lead	<input type="checkbox"/> Nitrate	<input type="checkbox"/> Nitrite	<input type="checkbox"/> Phosphate	<input type="checkbox"/> Selenium	<input type="checkbox"/> Silver	<input type="checkbox"/> TSS	<input type="checkbox"/> Turbidity	<input type="checkbox"/> Vanadium	<input type="checkbox"/> Zinc	<input checked="" type="checkbox"/> ADEQ	<input checked="" type="checkbox"/> EPA	<input checked="" type="checkbox"/> Other	
<u>Well - Parker Springs</u>	<u>9/30/09</u>	<u>2:50</u>			<u>GW</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Lake - Parker Springs</u>	<u>9/30/09</u>	<u>3:23</u>			<u>Surface</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Lake - Parker Springs</u>	<u>9/30/09</u>	<u>8:23</u>			<u>Surface</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER MICROSCOPIC PARTICULATE ANALYSIS REPORT

System ID	101/2009	1100	Parker Springs Water Company	530
Sample Date	10/1/2009	1100	Dina Miller	Volume (Gallons)
Sample Time	(520) 206-9585		Owner/Contact Person Name	
Owner/Contact Fax Number	(520) 206-9518		Owner/Contact Person Phone Number	
Well			#1	
Sample Collection Point/ID	10/2/2009 0940		Source/Well ID#	
Analysis Date/Time				

Particulate Type	1	2	3	4	5	6	7	8	9	10	Total #/100G	Risk
Giardia	0	0									<1	0
Coccidia	5										5	10
Diatoms w/dior	0										<1	<2
Other algae w/dior	0										<1	0
Insect/Larvae	0										<1	0
Rotifers	2										2	4
Plant debris w/dior	0										<1	<2
Fine Amorph particles	11										11	H
Large Amorph particles	1										1	H
Minerals	1										1	L
Sporozoa	1										1	L
Plant pollen	7										7	14
Ciliates/Flagellates	9										9	18
Nematode egg/cyst	80										80	160
Amoeba	0										<1	<2
Crustaceans	0										<1	<2
Plant debris w/o chlor											<1	<2
Diatoms w/o chlor											<1	<2
TOTAL	103										103	206

APPENDIX D
SOLAR
WELL PUMP
AND
MOTOR
SYSTEM

QUALITATIVE RANKINGS OF PRIMARY BIO-INDICATORS

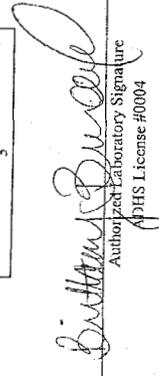
Per 100 gallons	EH	H	M	R	NS
Giardia	>30	16-30	6-15	1-5	<1
Coccidia	>150	16-30	6-15	1-5	<1
Diatoms w/chlor	>150	41-149	11-40	1-10	<1
Other algae w/chlor	>300	96-299	21-95	1-20	<1
Insects/Larvae	>100	31-99	16-30	1-15	<1
Rotifers	>150	61-149	21-60	1-20	<1
Plant debris w/chlor	>200	71-200	26-70	1-25	<1

RELATIVE RISK FACTOR DESIGNATIONS

Per 100 gallons	EH	H	M	R	NS
Giardia	40	30	25	20	0
Coccidia	35	30	25	20	0
Diatoms w/chlor	16	13	11	6	0
Other algae w/chlor	14	12	9	4	0
Insects/Larvae	9	7	5	3	0
Rotifers	4	3	2	1	0
Plant debris w/chlor	3	2	1	0	0

KEY	RISK OF SURFACE WATER CONTAMINATION
EH = Extremely High	3 High Risk =>20
H = Heavy	2 Moderate Risk = 10-19
M = Moderate	1 Low Risk < 9
R = Rare	
NS = Not Significant	

CONCLUSION
3


 Authorized Laboratory Signature
 NYS License #0004

Specimen # 9100075-01
 Case Narrative: The laboratory extracted the filter and the resulting pellet represented a significant portion of the sample (>50% of 100 gallons). The pellet was diluted and 1 microscope slide was read. Counts of biological indicators may be biased low.

GRUNDFOS

Company name: Grand Canyon Pump
 Created by: Russ Hunter
 Phone: 1-520-292-8011
 Fax: 1-520-292-8012
 Date: 2/10/2010

Project: Parker Canyon Lake
 Reference Number: Client Number: Westland Resources
 Contact: Jon

95027350 16 SQ-F-10 50 HZ

Input - summary
 Water volume (max): 6804 US GPD
 Peak month: July
 Head: 210 ft
 Sun tracking: No (fixed)
 Solar data location: Tucson, Arizona (32.1N, 110.9W)
 Data source: NREL: 23160

Product
 Pump: 16 SQ-F-10, 1 x 95027350
 Switch box / control unit: CU 200, 1 x 96825360, IO 101, 1 x 96481502
 Level switch: Level switch (on/off), 1 x 00010748

String results - summary
 Typical performance at solar radiation 800 Wh/m²
 Flow: 10.7 US GPM
 Friction loss: 4.8 ft
 Total head: 215.0 ft
 Total cable loss: 6.1 %

Water production, Peak flow and Price
 Total water production per year: 2034000 gal
 Avg. water production per day: 5571 US GPM
 Average water production per watt per day: 5.99 WWh/day
 Peak flow: 7.79 US GPM
 System price: On request

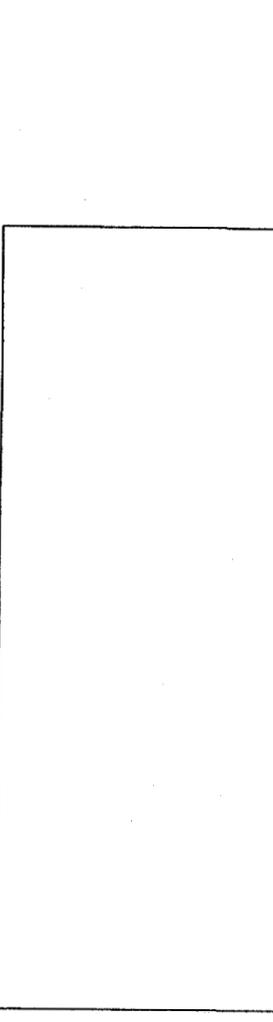
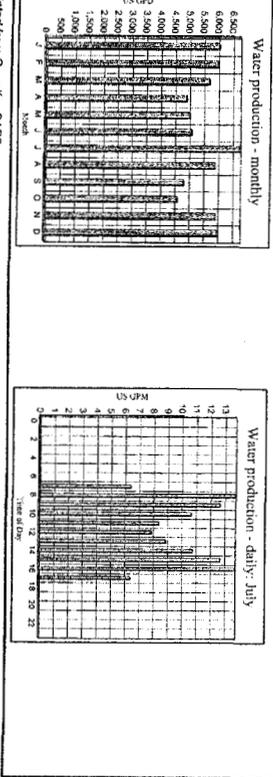
Cables and pipes:
 Pump cable (pump - solar array)
 Length: 300 ft
 Size: 12 AWG
 Pipe length: 230 ft
 Pipe diameter: 1 1/4" SCH 40

Solar module configuration:
 Number of solar modules in series: 8, in parallel: 2
 Solar array rated power: 3.52 kWp
 Solar array rated volts: 242.4 V
 Sun tracking: No (fixed)

System performance - monthly average

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Water production (US GPD)	6031	6003	5897	4936	5038	5100	6742	5917	4828	4610	5943	5997
Energy production (kWh/day)	11.3	11.5	10.7	9.1	9.3	9.4	12.6	11.1	8.9	8.7	11.4	10.7
Energy production (kWh/year)	314	44	58	74	80	81	71	6.7	6.0	5.0	3.8	3.2
Radiation (kWh/m²/day)	32	32	32	32	32	32	32	32	32	32	32	32
Radiation (kWh/m²/year)	51.3	54.4	35.6	62.8	73.9	83.8	86.5	84.6	80.4	70.3	59.2	52
Avg. Temp. [°F]	50	50	50	50	50	50	50	50	50	50	50	50
Temp. Variation [K]	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0

AC power (backup) - water production
 Required minimum output effect: 1.88 HP
 AC 115 V: Produces 9.11 US GPM
 AC 230 V: Produces 14 US GPM



GRUNDFOS

Company name: Grand Canyon Pump
 Created by: Russ Hunter
 Phone: 1-520-292-8011
 Fax: 1-520-292-8012
 Date: 2/10/2010

Project: Parker Canyon Lake
 Reference Number: Client Number: Westland Resources
 Contact: Jon

95027350 16 SQ-F-10 50 HZ

Input
 Head: 210 ft
 Dynamic water level: 185 ft
 Static lift above ground: 82 ft

Product
 Pump cable (pump - solar array)
 Length: 300 ft
 Size: 12 AWG

String results - summary
 Sun tracking: No (fixed)
 Basic Orientation: 0 deg.
 Reflection (surface): 0.20% (Grass dry)
 Solar module type: 220 WP
 Number of solar modules: (in series: 220 WP)

Cables and pipes:
 Pump type pre-selected:
 Pump outlet:
 Level switch option: No
 Switch box / control unit: CU 200 + IO 101 (115V)





Company name: Grand Canyon Pump
 Created by: Russ Hunter
 Phone: 1-520-292-8011
 Fax: 1-520-292-8012
 Date: 2/10/2010

Project: Parker Canyon Lake
 Reference Number: Westland Resources
 Client Number: Jon
 Contact:

95027350 16 SQF-10 50 Hz

Installation figures

Location

Solar data

Location: Tucson, Arizona (32.1N, 110.9W)
 Date source: NREL : 23160

Pump

Pump type: 16 SQF-10
 Pump diameter: 4.02 in
 Pump material: Stainless steel (1.4301 / AISI 304)

Well and pipes

Head (Height between (lowered) water level in well and water level in tank/reservoir): 210 ft
 Required borehole capacity (peak flow): 7.79 US GPM
 Pipe diameter: 1 1/4" SCH 40 (35.05 mm)
 Pipe length total: 250 ft

Cables

Pump cable (pump - solar array)
 Length: 300 ft
 Size: 12 AWG
 Cable loss max: 2 %

Solar modules

Solar module: 220 WP, 220 W, Crystalline
 Number of solar modules in series: 8, in parallel: 2
 Solar array rated power: 3.52 kWp
 Solar array rated volts: 242.4 V
 Sun tracking: No (fixed)

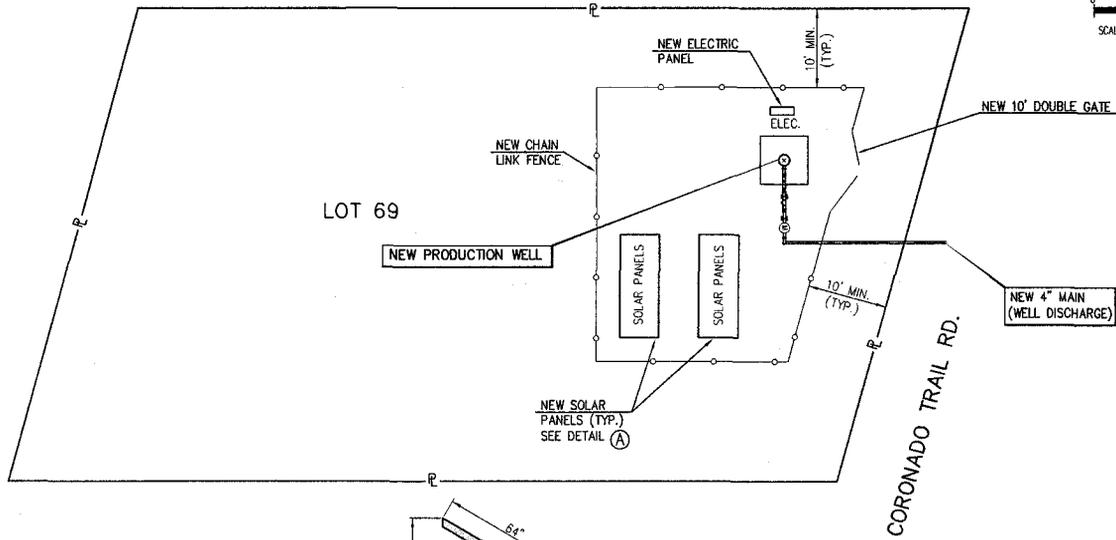
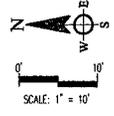
Tilt angle [deg]	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	32	32	32	32	32	32	32	32	32	32	32	32

Solar array - basic orientation (azimuth): 0 deg.
 (0° = south, 90° = west, 180° = north, 270° = east)
 Reflection (surface): 0.20% (Grass dry)

APPENDIX E

CONCEPT
 SITE
 LAYOUTS

CORONADO NATIONAL FOREST



LOT 69

NEW PRODUCTION WELL

NEW ELECTRIC PANEL

NEW 10' DOUBLE GATE

NEW CHAIN LINK FENCE

ELEC.

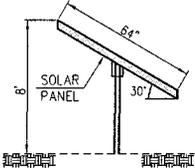
SOLAR PANELS

SOLAR PANELS

NEW SOLAR PANELS (TYP.) SEE DETAIL (A)

NEW 4" MAIN (WELL DISCHARGE)

CORONADO TRAIL RD.



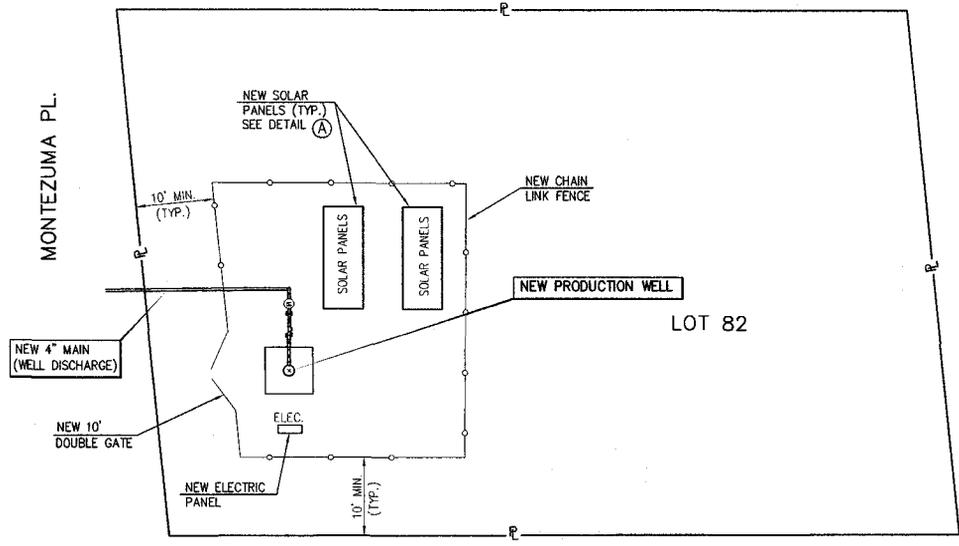
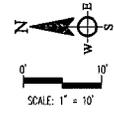
DETAIL A



PARKER SPRINGS
LOT 69
WELL LAYOUT EXHIBIT

M:\Projects\1638.01\wells\lot69-well.dwg Feb 16, 2010 - 2:10pm tket

MONTEZUMA PL.



LOT 82

NEW SOLAR PANELS (TYP.) SEE DETAIL (A)

NEW CHAIN LINK FENCE

NEW PRODUCTION WELL

SOLAR PANELS

SOLAR PANELS

10' MIN. (TYP.)

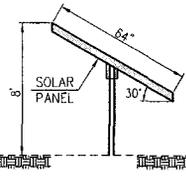
NEW 4" MAIN (WELL DISCHARGE)

NEW 10' DOUBLE GATE

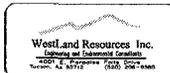
ELEC.

NEW ELECTRIC PANEL

10' MIN. (TYP.)



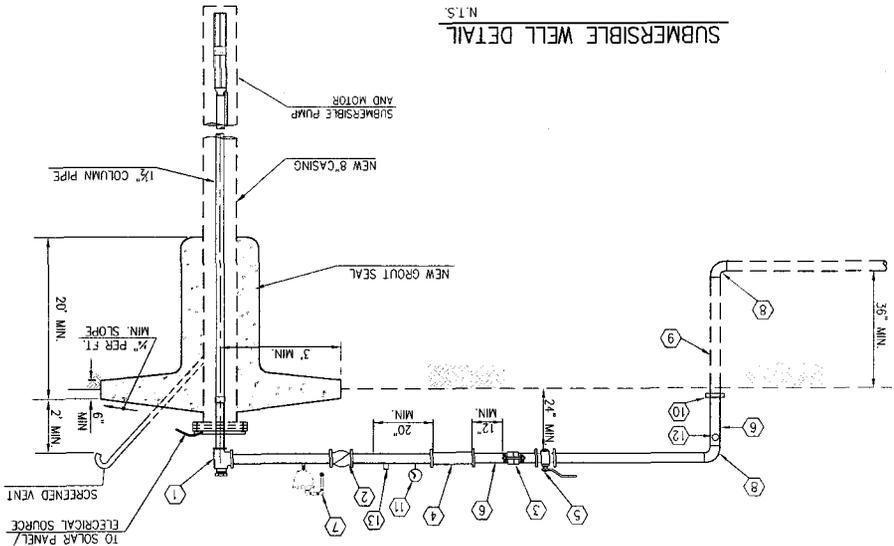
DETAIL A



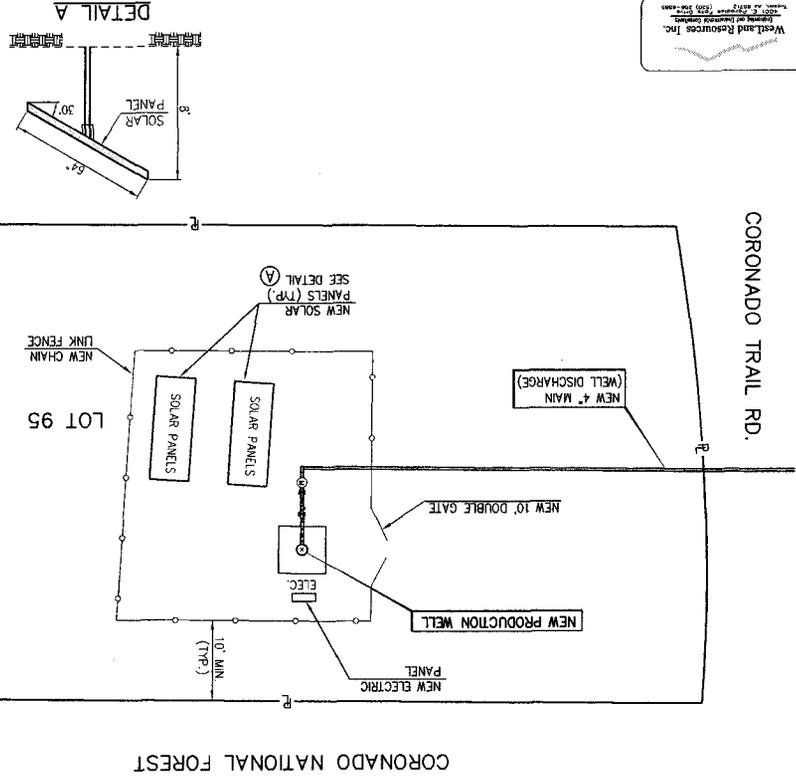
PARKER SPRINGS
LOT 82
WELL LAYOUT EXHIBIT

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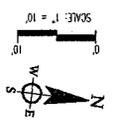
- KEYNOTES
- 1. 2"x2" DISCHARGE Tee.
 - 2. 2" SILENT CHECK VALVE.
 - 3. FLEX COUPLING.
 - 4. 2" WATER METER.
 - 5. 2" GATE VALVE.
 - 6. 2" STEEL PIPE.
 - 7. 3/4" AIR RELEASE VALVE.
 - 8. 2" x 90° VERTICAL BEND.
 - 9. 2" PVC PIPE.
 - 10. STEEL TO PVC ADAPTOR.
 - 11. PRESSURE GAUGE.
 - 12. 1/2" TAP WITH BALL VALVE.
 - 13. PRESSURE TRANSDUCER/HIGH PRESSURE CUTOFF FOR CHLORINE INJECTION.



PARKER SPRINGS
WELL DETAIL SHEET



PARKER SPRINGS
WELL LAYOUT EXHIBIT



APPENDIX F
OPCC
FOR
SYSTEM
RECOMMENDATIONS

WestLand Resources, Inc.
Engineering and Environmental Consultants

OPINION OF PROBABLE CONSTRUCTION COST

Project Name: Parker Springs Water Company Assessment
Project No.: 1638.01 A 8000
Location: Parker Canyon Lake
Description: System Recommendation Costs

Prepared by: JMB **Date:** 3/11/10
Checked by: KDF **Date:** 3/11/10
Client: Parker Springs Water Company

Item No.	Item Description	Unit	Quantity	Unit Price	Amount	Remarks
System Recommendations						
1	Drill new production well at Lot 69 to replace the existing well	LS	1	\$45,000	\$45,000	Per Basin Wells estimate. Excludes property acquisition cost.
2	Equip and incorporate the new well into the existing system	LS	1	\$25,000	\$25,000	Includes equipment and installation of solar panels, pump and motor, site work, site piping and fencing
3	Install new 10,000-gallon HDPE tank to replace the existing reservoir	LS	1	\$9,000	\$9,000	Includes demo of existing tank and new tank installation
4	Replace and rebury 4-inch existing pipeline	LF	2,350	\$25	\$58,750	
5	Install new package booster station at the existing (or new) reservoir to serve the low pressure zone	LS	1	\$20,000	\$20,000	Small booster station with solar power and battery bank
6	Install new 4-inch pipeline to serve the upper pressure zone	LF	1,325	\$25	\$33,125	
	Subtotal				\$190,875	
	25% Engineering & Contingencies				\$47,719	
	Hydrogeology Consulting Services (estimate)				\$17,000	
	TOTAL				\$255,594	

PARKER SPRINGS WATER COMPANY
WATER SYSTEM EVALUATION

TABLE OF CONTENTS

Parker Springs Water Company
Water System Evaluation
PWS ID #02045

Submitted to:
Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix, AZ 85007

Submitted by:
Applied EnviroSolutions, Inc.
325 E. Southern Ave., Suite #115
Tempe, AZ 85282

February 15, 2010

1.	Introduction.....	-1-
1.1	Purpose and Scope	-1-
1.2	Assumptions	-1-
2.	Water System Information.....	-1-
2.1	Water Sources	-1-
2.2	Purchased Water.....	-2-
2.3	Water Quantity.....	-2-
2.4	Water Quality (Violations).....	-2-
2.5	Watershed and Potential Contamination.....	-2-
3.	Technical Capacity.....	-3-
3.1	Operation and Maintenance	-3-
3.2	Chlorination Facilities.....	-3-
3.3	Storage Tank	-3-
3.4	Pressure Tank	-3-
3.5	Distribution System.....	-3-
3.6	Well.....	-4-
3.7	Pump.....	-4-
3.8	Springs and Surface Water Sources	-4-
3.9	Turbidity.....	-4-
3.10	Coagulation.....	-4-
3.11	Sedimentation.....	-4-
3.12	Filtration	-4-
3.13	Filter Backwash.....	-4-
4.	Managerial Capacity.....	-5-
4.1	Management.....	-5-
4.2	Ownership and Governance	-5-
4.3	Training and Experience	-5-
4.4	Customer Relations.....	-5-
4.5	Rules and Policies.....	-5-
5.	Financial Capacity.....	-6-
5.1	Revenue Sufficiency and Credit Worthiness.....	-6-
5.2	Fiscal Controls.....	-6-
6.	Water System Security.....	-6-
6.1	Structures.....	-6-
6.2	Keys.....	-6-
6.3	Fencing.....	-6-
6.4	Lighting.....	-7-
6.5	Entrance Doors.....	-7-
6.6	Windows.....	-7-
6.7	Electronic Surveillance	-7-

6.8	Forms.....	-7-
6.9	Written Plans.....	-7-
6.10	Procedures.....	-7-
6.11	Law Enforcement.....	-7-
6.12	Employees.....	-8-
6.13	Non-Employees.....	-8-
6.14	Neighbors.....	-8-
7.	Evaluation Summary and Recommendations.....	-8-
7.1	Assessment Summary.....	-8-
7.2	Recommended Improvements.....	-8-

FIGURES

FIGURE 1:	Area Map
FIGURE 2:	Well Location Map
FIGURE 3:	Flow Schematic
FIGURE 4:	Distribution System Map
FIGURE 5:	System Topographic Map

APPENDICES

APPENDIX A:	Financial Evaluation Worksheet
APPENDIX B:	Statement of Cash Flow and Budgets Year Ending December 2009
APPENDIX C:	Arizona System Evaluation Questionnaire
APPENDIX D:	Site Photographs

1. INTRODUCTION

1.1 Purpose and Scope

The Arizona Department of Environmental Quality (ADEQ) has undertaken an initiative called "Capacity Development Program" to ensure adequate, technical, financial and managerial capacities of existing public water systems (PWS) in Arizona. The Program was mandated by 1420 (c) (3) of the Safe Drinking Water Act, 42 U.S.C., 300g-9.

Under this program, the capacity of a PWS is improved through the following five steps:

- A. Collect and evaluate information.
- B. Identify factors that encourage or impair capacity.
- C. Annually evaluate and improve the strategy.
- D. Implement the strategy.
- E. Measure the results.

The Parker Springs Water Company (Parker Springs), PWS 02045, is located in Cochise County (Figure 1), and has been identified by ADEQ as one of the priority water systems that needs a Capacity Development Assessment. Therefore, ADEQ retained Applied EnviroSolutions, Inc. (AES) to conduct a system evaluation of the Parker Springs water system. The system evaluation described in this report addresses Step 1 and Step 2 of the Capacity Development Program.

Mr. Raymond S. Craft, P.E., certified operator (# OP031408), a water system evaluator and representative of AES, met with Mr. Victor Chacon, manager, and Ms. Gail Spain, system administrator, for Parker Springs on December 22, 2009. The visit consisted of an informational meeting and a site visit.

1.2 Assumptions

The evaluation summarized in this report is based on the interview with Mr. Chacon and Ms. Spain and observation from the site visit by Mr. Craft. An electronic copy of the questionnaire filled out during the interview is presented in Appendix C. Therefore, in preparation of this report, AES relied on the information provided by Parker Springs and data collected during the site visit.

2. WATER SYSTEM INFORMATION

2.1 Water Sources

PWS #02045 relies solely on groundwater as its source of water. The system has no access to surface water sources. The water is pumped by one well that the facility owns and operates (Well No. 1; Source Water ID No. 55-621240). Figure 2 shows the location of the well site for the water system and Figure 3 is a flow schematic of the Parker Springs water system. Well No. 1 feeds water to the storage tank located approximately

200 feet above the well and approximately 2300 feet east of the well (Figure 4 and Figure 5). Water is stored in a 10,000 gallon lined steel tank. Chlorinated water is injected into Well No. 1 from a sodium hypochlorite metering pump that injects dilute sodium hypochlorite solution into the well.

2.2 Purchased Water

The system does not purchase water and has sufficient supply to meet its current demand.

2.3 Water Quantity

The PWS consists of 42 service connections with 105 people being served.

Based on 2009 pumping records, the daily average demand of the water system is about 1,120 gallons per day (gpd) with a maximum 30 day average of 1,800 gpd. The system has a capacity of 17,000 gallons per day.

Estimated production capacity of the well is about 10 gallons per minute.

Well No. 1 delivers water to the storage tank (Figure 3). The following table lists the Arizona Department of Water Resources (ADWR) Cadastral location and the address of the well.

Well Name	ADWR Well Registration	Location	Address
Well No. 1	55-621240	D (23-19)188dc	N/A (US Forest Service Property; West of Parker Canyon Lake

2.4 Water Quality (Violations)

According to Parker Springs:

- Currently, the system owner has begun to disinfect because they exceeded a Maximum Contamination Limit (MCL) for total coliform. As such, chlorine residual is maintained and monitored continuously

2.5 Watershed and Potential Contamination

The well is located approximately 400 feet east of Parker Canyon Lake. There is some concern that groundwater, which may be relatively shallow in the vicinity of the well, receives surface water from runoff from rain that collects in a depressed area west of the well. The Source Water Assessment conducted in 2002 states that the well has been given a low risk designation even though it is hydro-geologically sensitive.

3. TECHNICAL CAPACITY

3.1 Operation and Maintenance

The last sanitary survey was completed on August 16, 2006. There were no deficiencies mentioned. The system is well run and maintained. They have written guidelines for operation and maintenance and an emergency operation plan. The system is operated with the correct level of certification. The operator of record is Mr. Chuck Sumner (#04760). He is a grade two in distribution. Based on his current certifications (grade 2 in water treatment, grade 3 in wastewater collection, and grade 2 in wastewater treatment), Mr. Sumner continues to pursue educational requirements and is knowledgeable about Arizona regulations and programs.

3.2 Chlorination Facilities

Parker Springs currently uses a dilute solution of sodium hypochlorite as a source of chlorine for disinfection. The system consists of a small tank, pump, controls, and tubing to allow the chlorine solution to be injected into the well. Note that direct well injection is required because of the discharge pressure of the well pump. Direct injection is preferred water chlorination technique due to potential corrosion impacts on the well and masking of surface water impact on the well by killing any bacteria which may be present in groundwater within the well. Regardless, the owner selected this technique rather than direct injection into distribution piping due to the high purchase and installation cost of a pump that would be capable of overcoming the discharge pressure from the well pump.

3.3 Storage Tank

There is one storage tank for the Parker Springs water system. The storage capacity is 10,000 gallons and the tank is located at the highest elevation above the water distribution system. The storage tank was repaired three years ago and relined with a polyethylene bag liner due to repairs required resulting from corrosion damage. Parker Springs is also concerned about the storage capacity of the system and is currently evaluating its sufficiency. Parker Springs may decide to replace the existing storage tank over the next few years.

3.4 Pressure Tank

There is no pressure tank. Since there are no pumps, a pressure tank isn't necessary.

3.5 Distribution System

The existing distribution system has insufficient flow capacity for the current demands. Low pressures occur during peak demands. Several pipeline ruptures, repairs and replacements have been required over the last few years as a result of the condition of water distribution system.

Since it's a small distribution system with no industrial connections, Parker Springs does not have a cross-connection control and backflow prevention program and there are no known cross connections. There are valves located throughout the distribution which minimize water outages to customers during repairs. Parker Springs is able to isolate the distribution system into three areas, if necessary for repairs. The distribution system is upgraded as funds become available and as upgrades are needed for repairs. There are no loops in the distribution system and it is unknown if there are plans to install them. However, there are blowoffs at the ends of the mains to allow periodic flushing. There are no fire hydrants in the distribution system.

3.6 Well

The well listed in part 2.3 provide adequate water supply for the system. Parker Springs indicated that the well is in poor condition and they may need a new well. In 2002, a source water assessment was completed. Through this evaluation, it was determined that the water source is at low risk. There is no formal well head protection plan for the system.

3.7 Pump

Since the system is gravity fed, no pumps are necessary.

3.8 Springs and Surface Water Sources

There are no springs or surface water sources.

3.9 Turbidity

They do not monitor for turbidity.

3.10 Coagulation

There is no water treatment.

3.11 Sedimentation

There is no water treatment.

3.12 Filtration

There is no water treatment.

3.13 Filter Backwash

There is no water treatment.

4. MANAGERIAL CAPACITY

4.1 Management

The person in charge and contact person for Parker Springs is Mr. Victor Chacon. The administration contact is Gail Spain. Parker Springs is managed, operated and maintained by the Parker Lakeview Estates Homeowners Association, Inc. There are no employees. Mr. Chacon is the President of the Parker Springs HOA. Ms. Spain is the Secretary-Treasurer. Both serve on the Board of Directors for the Parker Lakeview Estates HOA. Mr. Chuck Sumner (#04760), operator of record, has the knowledge and the support to operate the system and is contracted by Parker Springs. They have written policies and procedures that are followed.

4.2 Ownership and Governance

Parker Springs is operated under the authority of the Parker Lakeview Estates homeowners Association Inc. The Board of Directors for Parker Lakeview Estates HOA is elected and meets on a regular basis. Some of the land where the system is located is owned by the United States Forest Service (USFS) and Parker Springs has a long-term lease with the USFS for continued use of this land. The system has easements for its distribution lines.

4.3 Training and Experience

Because Parker Springs is a small system operated by the Parker Lakeview Estates HOA the system's administrator does not have experience or special training in utility management, but does have experience with budgeting and facilities.

4.4 Customer Relations

The system administrator's (Gail Spain) home serves as the office and she is available during normal business hours. Parker Springs does not prepare Consumer Confidence reports. Parker Springs strives to provide quality service and to be responsive. Parker Springs gives notice to its customers on proposed policy, rates, planned water outages, and other significant changes via newsletters, notifications, mailings, door hangers, annual meetings, and special meetings as necessary.

4.5 Rules and Policies

The system has adequate rules and policies to protect its customers, to define the conditions for receiving water service and the rules and policies for defining customer responsibilities, and rules or policies defining the management of the system.

5. FINANCIAL CAPACITY

5.1 Revenue Sufficiency and Credit Worthiness

Parker Springs operates PWS #02045 on from revenue generated from water sales. Parker Springs' rate was established by the Arizona Corporation Commission to cover current operating expenses, debt payments, and most required repairs. However, their financial evaluation worksheet (Appendix A) shows losses over the next five years. Parker Springs' budget (Appendix B) shows a profit before capital projects in year 4 and year 5, but losses or breakeven for year 1 through year 3. They have requested funding from Water Infrastructure Finance Authority (WIFA) for technical evaluation of proposed upgrades to the system and continue to look for opportunities to use government programs to assist in capital improvements. Presently, they may not have enough money for major repairs or improvements to the system. The existing system has insufficient storage and flow capacity for the current demands. Low pressures occur during peak demands. Several pipeline ruptures, repairs and replacements have been required over the last few years as a result of the condition of water distribution system. The system does not have an emergency budget. Expenses for emergency repairs exceeding cash on hand are paid by the Parker Lakeview Estates HOA.

5.2 Fiscal Controls

Parker Springs is currently working on a long-term plan for capital improvements to the system (see discussion above). This covers existing conditions of the equipment and needs for upgrades and expansion. Once this is completed, they will be able to determine their financial needs.

6. WATER SYSTEM SECURITY

6.1 Structures

The structures in the system are observed and inspected daily. Nobody is allowed into any well or storage tank area without supervision. Deliveries made to system are inspected and do not get onsite without the assistance. Parker Springs has an emergency operation plan that has task-specific steps to perform in case of an emergency. Its last update was on December 1, 2009. A vulnerability assessment was not performed.

6.2 Keys

All of the padlocks used within the system are combination locks. There are no keyed locks. System owners and operator know combinations, have access, and are trained as required for emergencies.

6.3 Fencing

All structures are secured behind a six-foot high chain linked fence with three strands of barbed wire at the top that were all in good condition during our site visit. However,

fences at the well site and around the tank drain piping/controls are not secured to the ground to prevent access under the fence.

6.4 Lighting

There is no power, and therefore, no lighting at the well site or tank.

6.5 Entrance Doors

The only entrance door at the Parker Springs water system is for access to a wood shed at the well site housing the electrical generators. The entrance door to the wooden shed is wooden and is kept locked. The type of hinges used prevents vandalism because they cannot be removed if the door is closed and locked.

6.6 Windows

The window in the wooden shed is covered with metal mesh.

6.7 Electronic Surveillance

Currently, there is no electronic surveillance equipment. There has not been any problem with burglary or vandals in the past.

6.8 Forms

Emergency phone numbers are posted inside building. The system administrator has list of phone numbers to call in case of an emergency that includes members of the Parker Lakeview Estates HOA, the system operator, contractors (plumbers, electrician, etc.), engineer, health officials, and others, as required.

6.9 Written Plans

There is a clear chain of command. Emergency numbers are posted. All plans are periodically reviewed by Parker Springs. The emergency operation plan is kept in the office.

6.10 Procedures

Inspection logs are kept at the office. They do not have a formal log-in and log-out procedure at the wells and storage facilities.

6.11 Law Enforcement

Law enforcement is coordinated with the Cochise County Sheriff and the USFS.

6.12 Employees

Parker Springs has no employees. Parker Springs' operator is under contract. The system manager and administrator serve as volunteers for Parker Springs and as officers for the Parker Lakeview Estates HOA.

6.13 Non-Employees

Nobody other than Parker Springs' operator or persons authorized by Parker Springs is allowed into any fenced area without an escort.

6.14 Neighbors

Parker Springs works with the residing neighbors to help with security issues. Neighbors notify Parker Springs when something unusual is occurring at the well site, distribution system, or water storage site. Important facility telephone numbers are given to the neighbors.

7. EVALUATION SUMMARY AND RECOMMENDATIONS

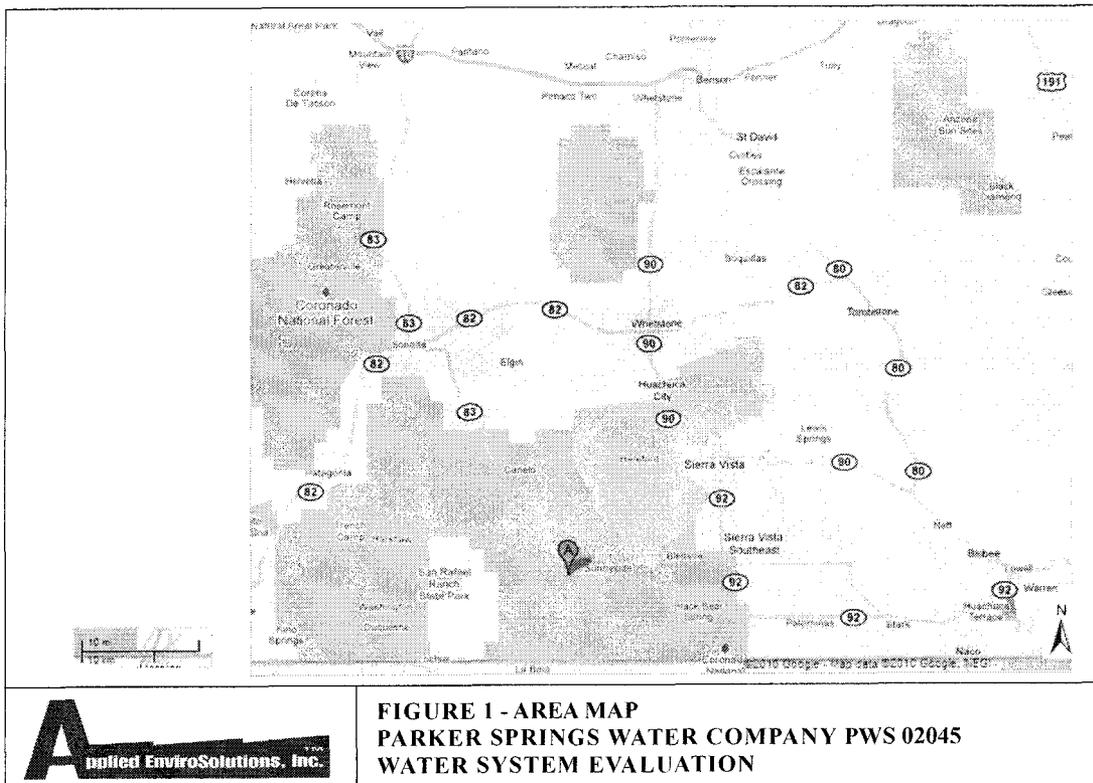
7.1 Assessment Summary

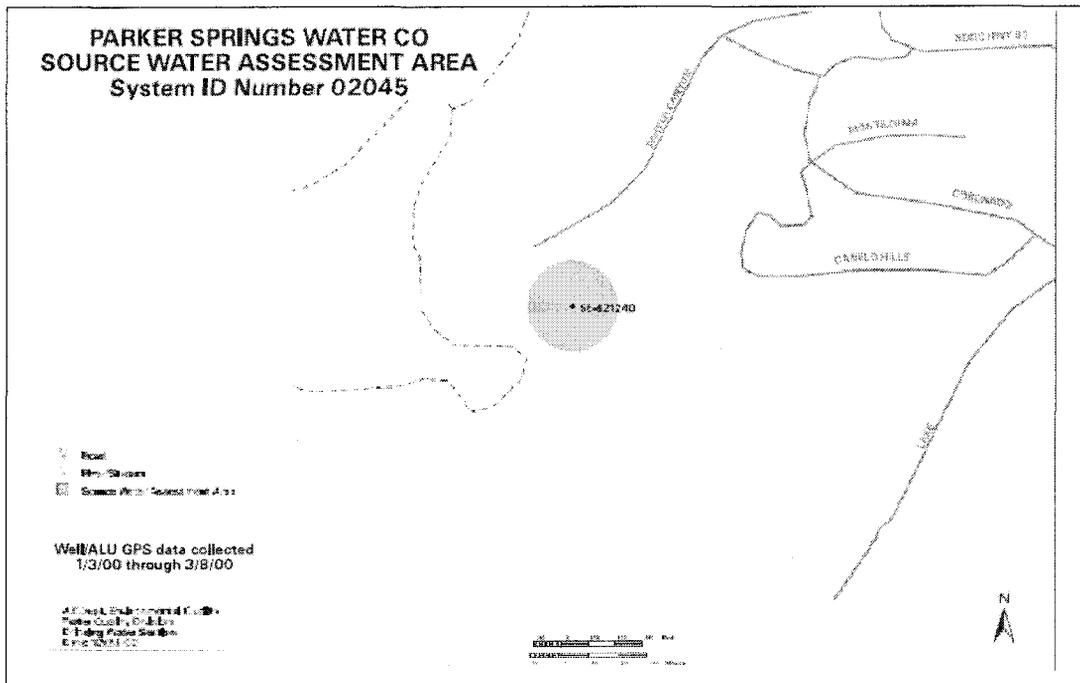
Parker Springs is well managed and operated. Although they attempt to operate within their budget, they are currently operating at loss with expenses exceeding revenue. Within reason, the well and tank sites are clean and free of weeds and debris. Based on AES' observation, equipment (generators and pump, tank, piping, and associated controls) appear to be in good working condition and are well maintained. Parker Springs is able to handle customer complaints and resolve problems.

7.2 Recommended Improvements

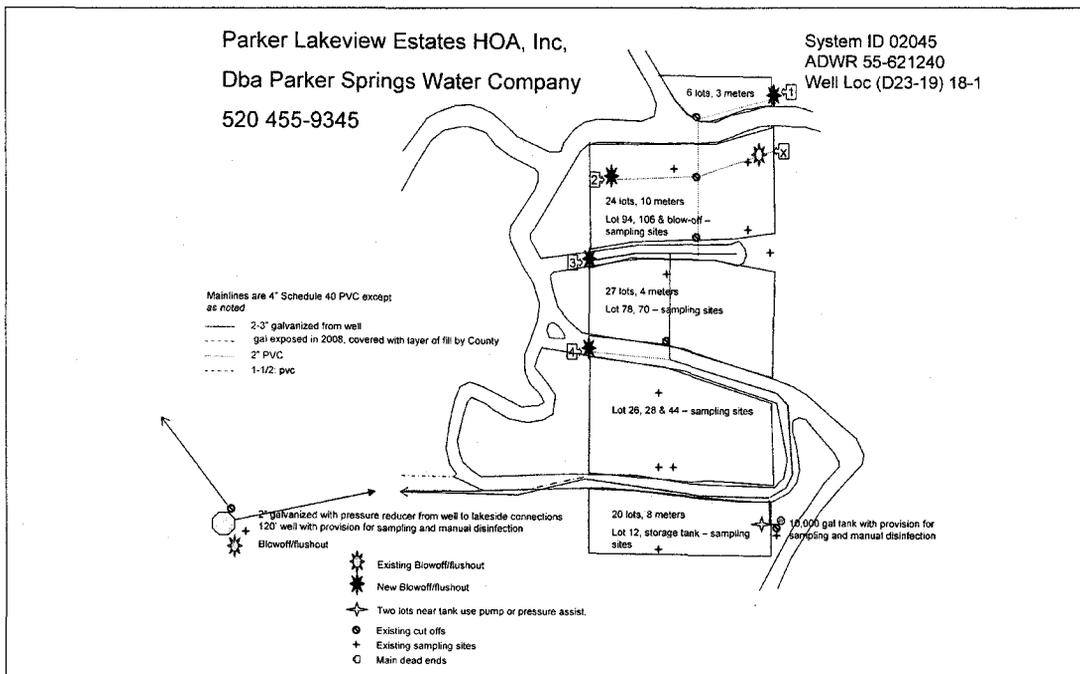
AES recommends that the system continue to measure residual chlorine and maintain a log of the daily chlorine readings. AES also recommends that the fences be repaired by securing them to the ground. A sign with the public water system (PWS) number should be posted at the tank site. The existing sign with well registration number should be posted so that it is visible on the fence around the well.

If possible, the area around the well site should be graded to prevent water from collecting around or adjacent to the well during rain storms or from snow.



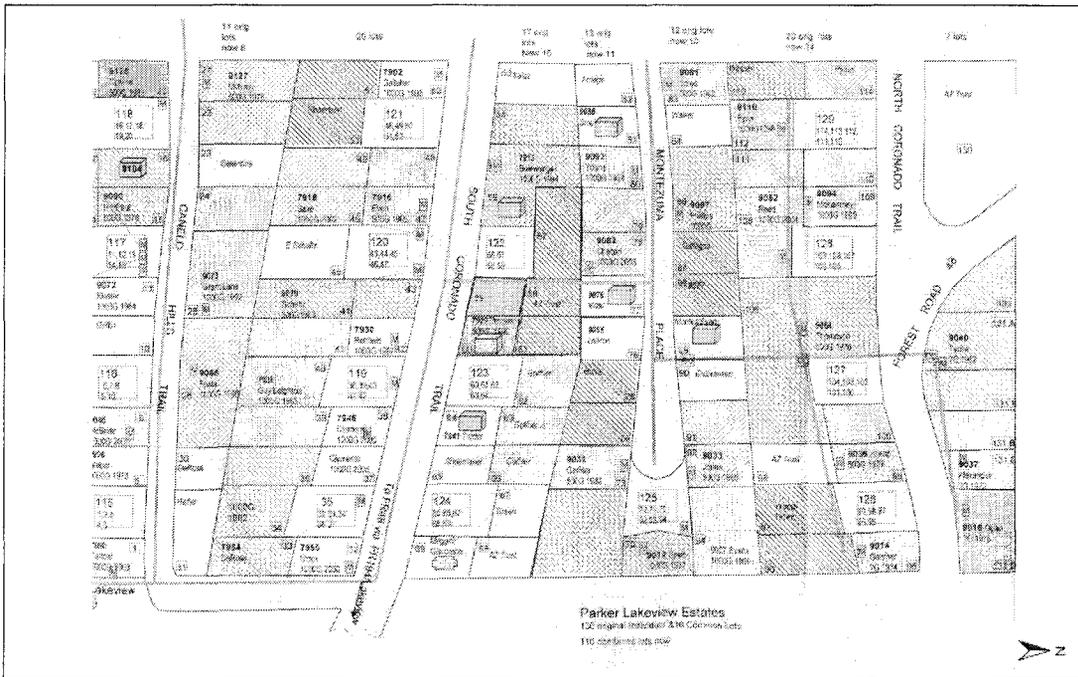


**FIGURE 2 - WELL LOCATION MAP
PARKER SPRINGS WATER COMPANY PWS 02045
WATER SYSTEM EVALUATION**

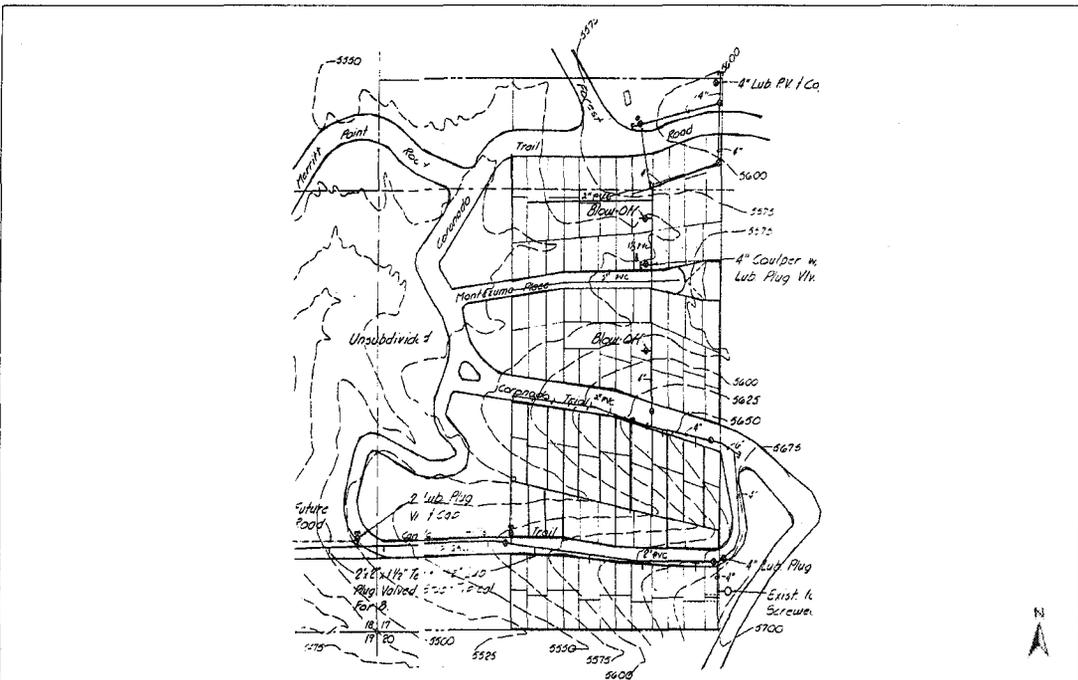


**FIGURE 3 - FLOW SCHEMATIC
PARKER SPRINGS WATER COMPANY PWS 02045
WATER SYSTEM EVALUATION**





**FIGURE 4 - DISTRIBUTION SYSTEM MAP
PARKER SPRINGS WATER COMPANY PWS 02045
WATER SYSTEM EVALUATION**



**FIGURE 5 - SYSTEM TOPOGRAPHIC MAP
PARKER SPRINGS WATER COMPANY PWS 02045
WATER SYSTEM EVALUATION**

APPENDIX A

Financial Evaluation Worksheet

A.1 Revenue Sufficiency and Credit Worthiness

PWS #02045 is operated by Parker Springs. Appendix B shows the income statement for 2009 and the proposed budgets and financial projections for the next five (5) years. Parker Springs does prepare an annual budget and is currently working on long-term water infrastructure upgrade plans. Parker Springs does not have funds available for major upgrades. The site manager, Mr. Victor Chacon knows where to get grants and he is active in those programs.

A.2 Fiscal Controls

Parker Springs has established water rates and all customers are metered and billed monthly. There are very few delinquent accounts and Parker Springs works to keep everyone current. Parker Springs reviews and approves the budgets, operational and capital improvements.

Based on conversations with the system administrator and the financial evaluation worksheets, income from water sales for 2009 did not match expenses as is also the projection for 2010. However, Parker Springs is projecting revenues greater than expenses in 2011, 2012, and 2013 due to a recent rate increase.

Parker Springs reported that there are insufficient profit and cash reserves to address capital improvements including a new storage tank, pipe line replacement, and new well.

A-1 Parker Springs Water Company (PWS #02045) System Evaluation (2009)

Financial Capacity Worksheet

5-Year Financial Projection	Year 1 Projection	Year 2 Projection	Year 3 Projection	Year 4 Projection	Year 5 Projection
Enter Year:	2009	2010	2011	2012	2013
1. Beginning Cash on Hand	2.46	531.00	1,650.00	3,500.00	5,500.00
a. Unmetered Water Revenue	-	-	-	-	-
b. Metered Water Revenue	14,821.17	16,470.00	16,470.00	20,093.40	20,093.40
c. Other Water Revenue	-	-	-	-	-
d. Total Water Revenues (1a thru 1c)	14,821.17	16,470.00	16,470.00	20,093.40	20,093.40
e. Connection Fees	45.00	30.00	30.00	30.00	30.00
f. Interest and Dividend Income	-	5.00	5.00	5.00	5.00
g. Other Income	175.47	18.00	18.00	18.00	18.00
h. Total Cash Revenues (1d thru 1g)	15,041.64	16,523.00	16,523.00	20,146.40	20,146.40
i. Additional Revenue Needed	-	-	-	-	-
j. Loans, Grants or other Cash Injection (please specify)	6,250.00	3,750.00	-	-	-
2. Total Cash Balance (1h to 1j)	21,291.64	20,273.00	16,523.00	20,146.40	20,146.40
3. Total Cash Available (1+2)	21,294.10	20,804.00	18,173.00	23,646.40	25,646.40
4. Operating Expenses	9,083.95	7,956.00	8,256.00	8,186.00	8,171.00
a. Salaries and wages	-	-	-	-	-
b. Employee Pensions and Benefits	-	-	-	-	-
c. Utilities (propene)	2,578.85	2,600.00	2,650.00	3,000.00	3,050.00
d. Chemicals	25.44	84.00	90.00	96.00	102.00
e. Materials and Supplies	273.01	400.00	400.00	400.00	400.00
f. Laboratory (testing)	1,092.80	1,207.00	1,250.00	1,250.00	1,275.00
g. Contractual Services	440.00	500.00	500.00	500.00	500.00
h. Insurance	-	-	-	-	-
i. Miscellaneous	953.09	3,717.00	4,010.00	4,395.00	4,910.00

Definitions for Worksheet	
1. Beginning Cash	For the current year budget, use the actual cash balance. For all other years, cash on hand should be zero.
a) Unmetered Water Revenue	All cash received or estimated for water supplied to residential, commercial, industrial and public.
b) Metered Water Revenue	All cash received or estimated for water supplied to residential, commercial, industrial and public.
c) Other Water Revenue	Other cash received or estimated from sales of water, sales for irrigation, sales for resale, inter-municipal.
d) Total Water Revenue	Total (1a) thru 1(c).
e) Connection Fees	All cash received or estimated for connection of customer service during the year.
f) Interest and Dividend Income	All cash received or estimated on interest income from securities, loans, notes, and similar instruments.
g) Other Income	Other revenues collected or estimated during the period (such as depreciation or change in net worth).
h) Total Cash Revenues	Add 1(d) thru 1(g).
i) Additional Revenue Needed	Additional cash needed to cover cash needs.
j) Loans, Grants or other Cash Injection	Includes loans or grants from financial institutions, inter-municipal loans, state or federal sources.
2. Total Cash Balance	Add items 1(h) thru 1(i).
3. Total Cash Available	Add items 1 and 2.
4. Operating Expenses	Use actual amounts paid when completing the prior year. Estimate the amounts for projected years based on cash expenditures made or estimated for salaries, bonuses, and other compensation for work related to: Paid vacations, paid sick leave, health insurance, unemployment insurance, pension plan, and other.
a) Salaries and wages	Amounts paid or estimated for all full or seasonal power.
b) Employee Pensions and Benefits	Amounts paid or estimated for chemicals used in treatment and distribution.
c) Utilities (propene)	Amounts paid or estimated for materials and supplies used for operation and maintenance of the water works.
d) Chemicals	Amounts paid or estimated for laboratory and associated services.
e) Materials and Supplies	Amounts paid or estimated for outside engineering, accounting, legal, managerial, and other services.
f) Laboratory (testing)	Amounts paid or estimated for vehicle, liability, workers compensation, and other insurance.
g) Contractual Services	Amounts paid or estimated for all expenses not included elsewhere (such as permit fees, training, and
h) Insurance	
i) Miscellaneous	

Financial Capacity Worksheet

5-Year Financial Projection	Year 1 Projection	Year 2 Projection	Year 3 Projection	Year 4 Projection	Year 5 Projection		
j. Total Operations and Maintenance Expenses (4a thru 4i)	14,447.14	16,464.00	17,156.00	17,827.00	18,408.00		j) Total operation Add amounts in items 4(a) thru 4(i)
k. Replacement Expenditures	1,515.38	750.00	850.00	950.00	1,050.00	Amounts \$	k) Amounts paid or estimated for replacement of
l. Total Operations and Maintenance expenditures plus Replacement expenditures (4j+4k)	15,962.52	17,214.00	18,006.00	18,777.00	19,458.00	total water	l) Total Operations and Add amounts in 4(j) and 4(k)
m. Loan Principal/Capital Lease Payments	-	-	-	-	-		m) Loan Principal Include cash payments made or estimated for principal and interest on all loans, including vehicle loans and
n. Loan Interest Payments	-	-	-	-	-		n) Loan Interest Include cash payments made or estimated for interest on all loans, including vehicle loans, and equipment on
o. Capital Purchases (specify):	7,334.45	3,750.00	-	-	-		o) Capital Purchases Amount of cash outlays or estimates for items such as equipment, building, or vehicle purchases and
5. Total Cash Paid Out (4m thru 4o)	23,296.97	20,964.00	18,006.00	18,777.00	19,458.00		5) Total Cash Paid Add amounts in 4(m) thru 4(o)
6. Ending Cash Position (3 - 5)	(2,002.87)	(160.00)	167.00	4,869.40	6,188.40	total cash	6) Total Cash Take Amount in 1 and subtract Amount in 5. If this amount is positive, there is operating cash left over.
7. Number of Customer Accounts	40	40	40	40	40		7) Number of Use most recent system data or expected increases
8. Average Annual User Charge per account (10/7)	370.53	411.75	411.75	502.34	502.34		8) Average User Take amount listed in 1(d) and divide it by amount listed in 7.
9. Coverage Ratio (11-4)(11+4n)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	total cash	9) Coverage Take amount in 1(d) and subtract the amount in 4(i). Then divide that amount with the sum of 4(n) + 4(o).
10. Operating Ratio (10/9)	0.93	0.96	0.91	1.07	1.03	total water	10) Operating Ratio Take amount in 1(d) and divide it by the amount in 4(i). The operating ratio also falls: 1(d)/4(i). This figure
11. End of Year Operating Cash (6 - 12)	(2,002.87)	(1,810.00)	(3,333.00)	(630.60)	(1,911.60)		11) End of Year All non-reserved cash. Add amounts from 6 thru 12.
12. End of Year Reserves							12) End of Year Do not include depreciation as a reserve unless there is a liability or a specialized depreciation reserve.
a. Operating Reserves		1,650.00	3,500.00	5,500.00	8,100.00		a) Operating Reserves Funds set aside to meet cash flow, operating, and seasonal fluctuations.
b. Debt Service Reserve							b) Debt Service Reserve Funds specifically set aside to retire debt as it is scheduled.
c. Capital Improvement Reserve							c) Capital Improvement Reserve Funds specifically set aside to meet long-term objectives for a major facility expansion, improvement.
d. Replacement Reserve							d) Replacement Reserve Funds specifically set aside for the future replacement of equipment needed to maintain the integrity of the
e. Other							e) Other Add amounts 12 (a) thru 12 (d).
Total Reserves (12a thru 12e)		1,650.00	3,500.00	5,500.00	8,100.00		

Financial Capacity Worksheet

Definitions for Worksheet	
1. Beginning Cash on Hand	For the current year budget, use the actual cash balance. For all other years, cash on hand should equal item #12 from the previous period.
a) Unmetered Water Revenue	All cash received or estimated for water supplied to residential, commercial, industrial and public customers where the customer charge is not based on quantity, but is based on other criteria such as diameter of service pipe, room, or foot of frontage.
b) Metered Water Revenue	All cash received or estimated for water supplied to residential, commercial, industrial, and public customers where the charge is based on quantity of water delivered.
c) Other water revenues	Other cash received or estimated from sales of water, sales for irrigation, sales for resale, inter-municipal sales, or ad valorem taxes.
d) Total Water Revenues	Total 1(a) thru 1(c)
e) Connection Fee	All cash received or estimated for connection of customer service during the year.
f) Interest and Dividend Income	All cash received or estimated on interest income from securities, loans, notes, and similar instruments, whether the securities are carried as investments or included in sinking or reserve accounts.
g) Other income	Other revenues collected or estimated during the period (such as disconnection or change in service fees, profit on materials billed to customers, servicing of customer lines, late payment fees, rents, sales of assets, or ad valorem taxes (infrastructure portion).
h) Total Cash Revenues	Add 1(d) thru 1(g)
i) Additional Revenues Needed	Additional cash needed to cover cash needs.
j) Loans, Grants or other Cash Injections	Includes loans or grants from financial institutions, inter-municipal loans, state or federal sources.
2. Total Cash Balance	Add items 1(h) thru 1(i)
3. Total Cash Available	Add items 1 and 2
4. Operating Expenses	Use actual amounts paid when completing the prior year. Estimate the amounts for projected years based on prior year amounts, trends, and other known variables.

Financial Capacity Worksheet

Definitions continued	
a) Salaries and wages	Cash expenditures made or estimated for salaries, bonuses, and other considerations for work related to the operation and maintenance of the facility, including administration and compensation for officers and directors.
b) Employee Pensions and Benefits	Paid vacations, paid sick leave, health insurance, unemployment insurance, pension plan, and other similar liabilities.
c) Utilities	Amounts paid or estimated for all fuel or electrical power.
d) Chemicals	Amounts paid or estimated for chemicals used in treatment and distribution.
e) Materials and Supplies	Amounts paid or estimated for materials and supplies used for operation and maintenance of the <i>raw public water</i> system other than those under contractual services.
f) Laboratory	Amounts paid or estimated for laboratory and associated services.
g) Contractual Services	Amounts paid or estimated for outside engineering, accounting, legal, managerial, and other services.
h) Insurance	Amounts paid or estimated for vehicle, liability, worker's compensation, and other insurance associated with the public water system.
i) Miscellaneous	Amounts paid or estimated for all expenses not included elsewhere (such as permit fees, training, and certification fees).
j) Total operation and maintenance expenditures	Add amounts in lines 4(a) thru 4(i).
k) Replacement expenditures	Amounts paid or estimated for replacement of equipment to maintain system integrity (capital improvement plan).
l) Total Operations and Maintenance expenditures plus Replacement expenditures	Add amounts in 4(j) and 4(k).
m) Loan Principal, Capital Lease or Loan payment	Include cash payments made or estimated for principal and interest on all loans, including vehicle loans and equipment on time payments, and capital lease payments.
n) Loan Interest payments	Include cash payments made or estimated for interest on all loans, including vehicle loans, and equipment on time payments, and capital lease payments.

Financial Capacity Worksheet

Definitions continued	
a) Capital Purchases	Amount of cash outlays or estimates for items such as equipment, building, or vehicle purchases and leasehold improvements that were not a part of the initial design of the water system.
b) Total Cash Paid Out	Add amounts in 4(m) thru 4(o).
c) Total Cash Available Minus Expenditures Calculation	Take Amount in 1, and subtract Amount in 5. If this amount is positive, there is operating cash left over after all calculated expenditure obligations have been met. If the number is negative, there are more expenses than there are funds available to pay for the expenses to operate the water system.
7) Number of Customer Accounts	Use most recent system data or expected increases.
8) Average User Charge per Customer	Take amount listed in 1(d) and divide it by amount listed in 7.
9) Coverage Ratio	Take amount in 1(c) and subtract the amount in 4(i). Then divide that amount with the sum of 4(m) + 4(n). The equation looks like this: $\frac{1(c) - 4(i)}{4(m) + 4(n)}$ and measures the sufficiency of net operating profit to cover the debt service requirements of the system. A bond covenant might require the debt service to meet or exceed certain limits.
10) Operating Ratio	Take amount in 1(c) and divide it by the amount in 4(i). The equation looks like this: $\frac{1(c)}{4(i)}$. This figure measures whether operating revenues are sufficient to cover operation, maintenance, replacement expenses. An operating ratio of 1.0 is the minimum for a self-supporting facility. If there are debt service requirements, the operating ratio would have to be higher.
11) End of Year Operating Cash	All non-reserved cash. Add amounts from 6 thru 12.
12) End of Year Reserves	Do not include depreciation as a reserve unless there is actually a designated depreciation reserve containing cash set aside for future expansion.
a) Operating Cash Reserve	Funds set aside to meet cash flow, operating, and seasonal fluctuations.
b) Debt Service Reserve	Funds specifically set aside to retire debt as it is scheduled.
c) Capital Improvement Reserve	Funds specifically set aside to meet long-term objectives for a major facility expansion, improvement, or the construction of a new facility.

Financial Capacity Worksheet

Definitions continued	
d) Replacement Reserves	Funds specifically set aside for the future replacement of equipment needed to maintain the integrity of the facility over the useful life of the equipment.
e) Total End of Year Reserves	Add amounts 12 (a) thru 12 (d).

Financial Capacity Worksheet

Water System Financial Viability Tests
Test 1: Will the proposed water system collect sufficient revenues to meet all of its projected expenses?
Measurements:
3. Total Revenues - Total Expenses = Net Income > 0
4. Total Revenues - One-Time Revenues - Interest Income - Other Income = Operating Revenues
5. Total Expenses - One-Time Expenses - Debt Service - Capital Outlays = Operating Expenditures
6. Operating Revenues - Operating Expenses = Net Revenues > 0
6. Operating Ratio = Operating Expenses ÷ Operating Revenues
Test 2: Will the proposed water system generate reserves?
The following measurements shall be > 0 at the time submitted:
a. Operating Cash Reserve = \$
b. Replacement Reserve = \$
c. Working Capital = Current Assets - Current Liabilities
Test 3: Are the proposed rates reasonable compared to the median household income of the area to be served?
The following measurement shall be:
Average Annual Rates < Median Household Income* ± 2.5%
<small>*The sources of median household income data include the most recent United States Census Bureau (USCB) data collected by the Department or generated by an impartial third party experienced in collecting income data and supplied to the Department by the applicant seeking viability determinations. Acceptable sources of income data, other than USCB data include feasibility studies, engineering reports, market studies, income surveys, or another source or collection methodology approved by the Department.</small>

APPENDIX B

Statement of Cash Flow and Budgets

Year Ending December 2009

ACCT	EXPENSES			
	2009	2010	2011	BUDGET 2012 2013
402 DEPRECIATION*	2,486.10	2,500.00	2,500.00	2,500.00
408 11 TAXES - PROPERTY	340.20	370.00	370.00	390.00
408 TAXES - WATER USAGE	16.04	16.00	16.00	16.00
616 PROPANE	2,578.85	2,600.00	2,650.00	3,050.00
618 OPERATING CHROME	25.44	84.00	90.00	102.00
620 OPERATING SUPPLIES	273.91	400.00	400.00	400.00
621 COMPLIANCE FEES	10.00	10.00	10.00	10.00
621 ADMINISTRATIVE FEE	179.00	3,000.00	3,600.00	4,200.00
621 BANK FEES	97.00			
621 DUES	83.61			
621 INV/INVOICE PAPER	83.61			
621 INVOICE PAPER	500.00			
621 PAPER & ENVELOPES	31.01			
621 POSTAGE	266.06			
621 RATE CASE & WIFA	84.25			
621 TELEPHONE	85.00			
621.1 INTEREST ON DEPOSITS*	4.80	7.00		
631 LEGAL				
631.1 ACCOUNTING FEES	440.00	500.00	500.00	500.00
635 TESTING - WAP				
635 TESTING - WIFA	1,092.80	1,207.00	1,250.00	1,275.00
635 TESTING - WIP	2,423.07	1,500.00	1,500.00	1,500.00
636 REPAIR GENERATOR	1,338.44	1,000.00	1,000.00	1,000.00
636 REPAIR LINES & METERS		100.00	100.00	100.00
636 WEED WHIP WEL/GENERATOR SHED AREA				
636 REPAIR WEL/TANK	2,100.00	2,100.00	2,400.00	2,400.00
636.1 CERTIFIED OPERATOR	59.32	60.00	60.00	60.00
640 PROPANE TANK RENTAL	138.04	140.00	140.00	140.00
640 USDA PERMIT	100.10	125.00	125.00	125.00
650 MILEAGE		600	600	600
COMMUNITY	280.00	245.00	173.00	140.00
AMC CREDIT*	14,447.14	16,464.00	17,156.00	17,827.00
Total Expenses	13,908.71	16,470.00	20,093.40	20,093.40

* CREDITS (NOT PAID OUT IN CASH)

ACCT	2009	2010	2011	BUDGET 2012 2013
TOTAL RECEIPTS	13,908.71	16,470.00	20,093.40	20,093.40
PROFIT BEFORE CAPITAL PROJ	(538.43)	6.00	(686.00)	2,266.40
CAPITAL PROJECTS	2,399.85	750	950	1,050
CORPORATE FUND	1,650	350	550	810

This table is fully "commented." Comments can be read by positioning your cursor over the cells with red triangles in the upper right of the cell.

It has been our policy to save for capital projects. We still have several hundred feet of mainline that needs to be replaced. Our tank was lined with a 10-year liner in 2007 and we will have to make a decision in the next few years whether to re-line or replace the tank. We have also been advised that our well is in serious peril and we should probably drill a new well. We received a grant from WFRP to a study on the current and possible future well. Those are the capital disbursements shown in 2009 and 2010. In the past, the board implemented several cost savings measures and those along with growth to our customer base through the years enabled to replace the worst portions of our main lines. However, when we applied for a rate increase (after 14 years) the ACC did not recognize that our board was donating the management expenses and would not increase our rate to cover for saving toward the line replacement (needed sooner) and tank upgrade (needed later) that will be necessary. We also recognize that we will never be able to save enough money to drill a new well. Amounts for those capital needs are not known and are not shown in this report.

APPENDIX C

Arizona System Evaluation Questionnaire

ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS

DATE	12/22/2009			
System PWS Name	Parker Springs Water System			
System PWS Number	02045			
County	Cochise			
City Served	Parker Lakeview Est. Subdivision			
System Classification	Distribution		Treatment	
System Grade	1	2	3	4
Service Connections	42			
Population Served	105			
Contact Person	Victor Chacon			
Phone Number	Tucson 520-623-3187; Lake 520-455-9236			
Fax Number	520-623-7022			
Email				
Mailing Address for Water System	HCl Box 474 Elgin, AZ 85611			
Administration Contact:	Gail Spain 520-455-9345 email: spain333@wildblue.net			

ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS

PART I. WATER SUPPLY		Ground	Surface	GWUDI
What is your primary source of water?				
PURCHASED WATER				
1. Do you purchase water?		YES	NO	N/A
2. Do you have a contract to purchase water?		YES	NO	N/A
3. Do you keep records on the amount of water that you purchase?		YES	NO	N/A
4. Can you purchase an adequate supply during periods of drought?		YES	NO	N/A
5. Do you have an alternative source of supply?		YES	NO	N/A
6. Do you know the long-term plans of your supplier?		YES	NO	N/A
WATER QUANTITY				
1. Are water rights sufficient and secured?		YES	NO	N/A
2. Is the quantity of water available from your water source adequate for the next five years?		YES	NO	N/A
3. Do you know the safe, reliable yield of your source(s)?		YES	NO	N/A
4. Do you know how much water you pump on average per day?		YES	NO	N/A
4A. Enter the amount: 1,460 gpd				
5. Do you know your source capacity (including purchased water) in gallons per day (gpd)?		YES	NO	N/A
5A. Enter the amount: ~17,000 gpd				
6. Is your source capacity greater than your peak daily demand?		YES	NO	N/A
7. Were you able to provide adequate volumes of water during any recent droughts?		YES	NO	N/A
8. Is there a water conservation plan? If yes, describe in final report.		YES	NO	N/A
9. Do you have a 10-year growth projection of your service area, customer base, and water demands which is consistent with local land use plans?		YES	NO	N/A
WATER QUALITY				
1. What is the date of your last sanitary survey?				8/18/2006
2. Have you corrected the deficiencies, if any, noted on your last sanitary survey?		YES	NO	N/A
3. Has your system had a violation of the National Primary Drinking Water Regulations in the last year?		YES	NO	N/A
4. If yes, do you have a plan to ensure compliance?		YES	NO	N/A
5. Do you know who to contact for information on regulatory requirements and drinking water standards?		YES	NO	N/A
6. Has a wellhead protection plan been initiated or completed?		YES	NO	N/A

**ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS**

7. Do you know the provisions for obtaining waivers from monitoring requirements?	<u>YES</u>	<u>NO</u>	<u>N/A</u>
8. Do you have a Source Water Assessment and Protection Program (SWAP) plan?	<u>YES</u>	<u>NO</u>	<u>N/A</u>
9. Do you have a SWAP report showing your sources of supply and all existing and potential sources of contamination?	<u>YES</u>	<u>NO</u>	<u>N/A</u>
Are the areas that affect your source water free from:			
10. Discharges from human wastewater treatment facilities?	<u>YES</u>	<u>NO</u>	<u>N/A</u>
11. Agricultural feedlot waste treatment facilities?	<u>YES</u>	<u>NO</u>	<u>N/A</u>
12. Golf courses?	<u>YES</u>	<u>NO</u>	<u>N/A</u>
13. Corporate or institutional campuses?	<u>YES</u>	<u>NO</u>	<u>N/A</u>
14. Industrial, commercial, or agricultural chemicals?	<u>YES</u>	<u>NO</u>	<u>N/A</u>
15. Landscaped residential developments?	<u>YES</u>	<u>NO</u>	<u>N/A</u>
What distance is the water source from:			
16. A septic tank?		<u>>1,320 feet</u>	
17. A municipal sewer?		<u>_____ feet</u>	<u>N/A</u>
18. An underground Storage Tank?		<u>>1,000 feet</u>	
19. A hazardous waste facility?		<u>_____ feet</u>	<u>N/A</u>
Describe in the final report contaminants that may affect the water source.			

**ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS**

PART II. TECHNICAL CAPACITY				
OPERATIONS AND MAINTENANCE				
1. Does the system have an operations and maintenance plan to address site-specific component replacement or repair protocols based on manufacturer's recommendations or engineer's specifications?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
1A. If yes, when was last update? Have guidelines written. Date not provided.				
2. Do you have a schedule for maintenance, repair, and rehabilitation of all your facilities?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
3. Does your system have a certified operator with the correct classification and grade?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
3A. Describe in final report, including the operator certification identification number.				
4. Does your operator attend continuing education training sessions?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
4A. Describe in final report.				
DISINFECTION				
1. Does the facility disinfect?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
1A. If yes, indicate which type:	<u>NaOCl liquid</u>	<u>CaOCl solid</u>	<u>Cl₂ gas</u>	
2. Is the facility chlorinating as required?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
3. Is the disinfection compound approved for use?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
4. What is the contact time in minutes? (1/2 mile of 2" pipe @ 10 gpm + well volume)		<u>~40 minutes</u>		
5. Is there a free chlorine residual daily log?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
6. Is there adequate chlorine residual?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
7. Is a chlorine test kit available?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
8. Does the facility have a chlorine injection nozzle?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
9. Is the line plugged?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
10. Is there a standby chlorinator?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
11. Is the required chlorinator installed?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
12. Is the chlorine feed tank empty?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
13. Is the equipment properly installed?		<u>YES</u>	<u>NO</u>	<u>N/A</u>
14. Is the equipment operating properly?		<u>YES</u>	<u>NO</u>	<u>N/A</u>

ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS

Cl₂ gas	
1. Is the dosing cylinder empty?	YES NO N/A
2. Is the room properly vented?	YES NO N/A
3. Is the chlorinator subject to freezing?	YES NO N/A
4. Is there an inspection window?	YES NO N/A
5. Is leak detection available?	YES NO N/A
6. Is a self contained breathing apparatus (SCBA) equipment needed?	YES NO N/A
6A. Describe in final report	
STORAGE TANKS / RESERVOIR	
1. Is there a storage tank?	YES NO N/A
2. Are the storage tanks inspected at least every 3 years?	YES NO N/A
3. Does your storage tank meet all current requirements?	YES NO N/A
4. Is the storage volume sufficient?	YES NO N/A
5. Does the tank need repair?	YES NO N/A
6. Does the storage tank leak?	YES NO N/A
7. Has the tank deteriorated beyond repair?	YES NO N/A
8. Is an overflow pipe installed?	YES NO N/A
9. Is the overflow pipe properly screened?	YES NO N/A
10. Is there a splash block below the overflow pipe?	YES NO N/A
11. Is the hatch sealed?	YES NO N/A
12. Is the hatch curb inadequate or missing?	YES NO N/A
13. Is the hatch secure?	YES NO N/A
14. Is the tank vent adequately installed?	YES NO N/A
15. Is the vent screened?	YES NO N/A
16. Does the tank have a drain valve?	YES NO N/A
17. Is there a visual water level indicator?	YES NO N/A
18. Is the water level target operative?	YES NO N/A
19. Are there openings around the target cable?	YES NO N/A
20. Is there a tank bedding ring?	YES NO N/A

ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS

21. Is the tank bedding damaged?	YES NO N/A
22. Are there any holes in the roof?	YES NO N/A
PRESSURE TANK	
1. Is there a pressure gauge?	YES NO N/A
2. Is there a bottom drain valve?	YES NO N/A
3. Is there a water level sight glass?	YES NO N/A
4. Do the booster glands leak?	YES NO N/A
5. Is there a blowoff valve for excess air?	YES NO N/A
6. Is there excess air?	YES NO N/A
7. Is there a safety relief valve?	YES NO N/A
8. Does the system have more than one booster pump?	YES NO N/A
9. If yes, are the pumps set to operate lead / lag?	YES NO N/A
10. Are replacement pumps on hand or easily obtainable?	YES NO N/A
11. How often do the pumps cycle on and off during peak demand?	----- N/A
12. Does the system pressure drop during peak demand?	YES NO N/A
12A. Describe in final report.	
DISTRIBUTION SYSTEM	
1. Does your system have a cross-connection control and backflow prevention program?	YES NO N/A
2. Do cross-connections exist?	YES NO N/A
3. Are there leaks in the system?	YES NO N/A
4. Do you have a routine leak detection and repair program?	YES NO N/A
5. Does your system calculate and control water loss?	YES NO N/A
6. Are the mains at least 3-feet deep?	YES NO N/A
7. Is the system subject to freezing?	YES NO N/A
8. Is the pipe material approved?	YES NO N/A
9. Is the water main too close to the sewer main?	YES NO N/A
10. Does your system have accurate maps of the distribution system?	YES NO N/A
11. Is your service area clearly defined?	YES NO N/A
12. Are all customers metered?	YES NO N/A

**ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS**

13. Are there enough valves to isolate distribution lines to minimize the impact of water outages?	YES	NO	N/A
14. Are mainlines typically looped?	YES	NO	N/A
15. If no, are there plans to do so and when?	Describe in final report		
FIRE HYDRANTS			
1. Is the system designed to provide fire flow?	YES	NO	N/A
1A. If yes, are there sufficient fire hydrants?	YES	NO	Number _____
2. How often are fire hydrants flushed?	YES	NO	N/A
3. Are flush valves or hydrants located at the end of branched lines?	YES	NO	N/A
4. Are system mainlines properly sized?	YES	NO	N/A
SPRINGS AND SURFACE WATER SOURCES			
1. Does the spring box or surface water source provide adequate flow during all seasons?	YES	NO	N/A
2. If not, is there an alternate supply available?	YES	NO	N/A
3. Is the spring box properly constructed?	YES	NO	N/A
4. Does the spring box need to be repaired or replaced?	YES	NO	N/A
5. Is the spring box secure?	YES	NO	N/A
6. Is there an overflow pipe?	YES	NO	N/A
7. Is there an overflow pipe screen?	YES	NO	N/A
WELL			
1. Is the well near or in a flood zone?	YES	NO	N/A
2. Is the well site properly graded?	YES	NO	N/A
3. Is the slab adequate?	YES	NO	N/A
4. Is the well casing annulus sealed?	YES	NO	N/A
5. Is the well seal / repair adequate?	YES	NO	N/A
6. Are there any direct openings into the well?	YES	NO	N/A
7. Is the casing at least 12-inches above the slab?	YES	NO	N/A
8. Is a well vent installed?	YES	NO	N/A
9. Is the well vent installed properly?	YES	NO	N/A
10. Is the well vent properly screened? Currently being modified for chlorine liquid addition.	YES	NO	N/A
11. Is the sampling tap properly installed?	YES	NO	N/A

**ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS**

PUMPS			
1. Is the vacuum relief valve installed?	YES	NO	N/A
2. Is the vacuum relief valve screened?	YES	NO	N/A
3. Is the vacuum relief valve leaking?	YES	NO	N/A
4. Is the lubricant proper for a lower turbine pump bearing?	YES	NO	N/A
5. Is the required check valve on the pipe properly installed?	YES	NO	N/A
6. Is the check valve defective?	YES	NO	N/A
TREATMENT			
1. Is the water treated?	YES	NO	N/A
What type of technology is used for treatment? Describe in final report.			
2. Do you regularly inspect and maintain your treatment facilities such as chemical feed pumps, filters, chlorination equipment, meters and testing equipment?	YES	NO	N/A
3. Are your treatment facilities manned whenever they are operating?	YES	NO	N/A
4. If no, are the plants automated with appropriate alarms and shut-off valves?	YES	NO	N/A
5. Do you keep records of your treatment plant operations including flows, chemicals added, dose rates, time of operation, and water quality performance tests?	YES	NO	N/A
6. Is there a water supply enclosure?	YES	NO	N/A
TURBIDITY			
1. Does the system have continuous turbidity sampling?	YES	NO	N/A
2. Is the required turbidity sampling being performed?	YES	NO	N/A
3. Influent turbidity range: N/A			
4. Effluent turbidity range: N/A			
5. Is the influent turbidity subject to rapid fluctuations?	YES	NO	N/A
6. Is a 4-hour sample taken?	YES	NO	N/A
7. Is there a turbidity log book?	YES	NO	N/A

ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS

8. Are turbidity standards kept on-site?	YES	NO	N/A
8A. If no, please explain:			
9. Are the turbidity standards less than 3 years old?	YES	NO	N/A
10. Is the backwash based on reading 0.5 Nephelometric Turbidity Units (NTU)?	YES	NO	N/A
COAGULATION			
1. Is there coagulant feed equipment?	YES	NO	N/A
2. Is the coagulant feed equipment operable?	YES	NO	N/A
3. Is there polymer feed equipment?	YES	NO	N/A
4. Is the polymer feed equipment operable?	YES	NO	N/A
5. Are the mechanical mixers operable?	YES	NO	N/A
6. Is there adequate coagulant mixing time?	YES	NO	N/A
7. Is the chemical storage and handling adequate?	YES	NO	N/A
8. Is the chemical application safe?	YES	NO	N/A
FLOCCULATION			
1. Are the mechanical mixers adequate?	YES	NO	N/A
2. Are the mechanical mixers operable?	YES	NO	N/A
3. Is the floc visible?	YES	NO	N/A
4. Is a daily jar test performed?	YES	NO	N/A
SEDIMENTATION			
1. Is the sludge removal equipment operable?	YES	NO	N/A
2. Are the weirs short circulating or not level?	YES	NO	N/A
3. Is there excess sludge on the bottom of the clarifier?	YES	NO	N/A

ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS

FILTRATION			
1. Maximum filtration rate (gpsfm):	N/A		
2. Filter on-off cycling/day:	N/A		
3. Is filtration by mixed media?		YES	NO
4. Depth of filter media (inches):	N/A		
5. Date since visual check of media (months):	N/A		
6. Date since media was exchanged (months):	N/A		
FILTER BACKWASH			
1. Is the backwash discharged with the proper National Pollutant Discharge Elimination System (NPDES) permit?		YES	NO
2. What is the backwash flow rate (gpm or gpsfm):	N/A		
3. Is there capability for filter backwash?		YES	NO
4. Is the backwash water supply adequate (>200 gal/sf)?		YES	NO
5. Filter to waste after backwash?		YES	NO
6. Filter to waste after startup?		YES	NO
7. Is the backwash based on run time?		YES	NO
8. Is the backwash based on pressure differential?		YES	NO
9. Is the filter media depth sufficient?		YES	NO
LAGOON SYSTEM			
1. Is the lagoon decant properly handled?		YES	NO
2. Is there excessive vegetation at lagoon water line?		YES	NO
3. Is the lagoon berm eroding or inadequate?		YES	NO
4. Is there less than 3 feet of freeboard on the lagoon?		YES	NO

ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS

PART III. MANAGERIAL CAPACITY

MANAGEMENT

1. Do you have written job descriptions for all positions so that employees know their responsibilities?	YES	NO	<u>N/A</u>
2. Do you have written personnel policies?	YES	NO	<u>N/A</u>
3. Does your system maintain a staffing and organizational chart that indicates reporting relationships of system personnel?	YES	NO	<u>N/A</u>
4. Does your system periodically review its safety programs?	YES	NO	<u>N/A</u>
5. Is the individual in charge of the system clearly defined?	<u>YES</u>	NO	N/A
6. Does the individual in charge of system operation have other responsibilities unrelated to the water system?	<u>YES</u>	NO	N/A
7. If yes, how much time is dedicated to these other responsibilities? Describe in final report.			
8. For systems that contract for system operation or management. Do you have a valid (signed) contract that specifies the contractor's duties and responsibilities related to your system?	<u>YES</u>	NO	N/A
9. Are sufficient records kept for compliance and reporting requirements?	<u>YES</u>	NO	N/A
10. Is routine maintenance performed?	<u>YES</u>	NO	N/A
11. Is the system frequently out-of-operation?	YES	<u>NO</u>	N/A
12. Is the water supply frequently depleted?	YES	<u>NO</u>	N/A
13. Are user complaints being received?	<u>YES</u>	NO	N/A
14. Did the system begin construction with an Approval to Construct (ATC)?	YES	NO	<u>N/A</u>
15. Is the system operating with an Approval of Construction (AOC)?	YES	NO	<u>N/A</u>
16. Does the system have the required as-built drawings?	YES	NO	<u>N/A</u>
17. Does construction conform to the approved plans?	YES	NO	<u>N/A</u>
18. Is the Operations & Maintenance manual available?	<u>YES</u>	NO	N/A
19. Does the system have a microbiological site sampling plan?	<u>YES</u>	NO	N/A

ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS

OWNERSHIP AND GOVERNANCE

Describe in final report your governance structure /ownership (i.e., elected board, council, appointed, sole ownership, other.)			
1. Is the system a "for profit" or a "not for profit" entity?		FOR PROFIT	<u>NOT FOR PROFIT</u>
2. Does the governing body meet on a regular basis?	<u>YES</u>	NO	N/A
3. Is an annual budget prepared and reviewed at board or council meetings?	<u>YES</u>	NO	N/A
4. If applicable, are by-laws, resolutions, and/or ordinances up-to-date?	<u>YES</u>	NO	N/A
5. Do you have a copy of the State documents (charter, Certificate of Public Necessity, license, or permit) that allows you to operate as a public water system?	<u>YES</u>	NO	N/A
6. Are there any special conditions or limitations on your permit to operate as a public water system?	YES	<u>NO</u>	N/A
6A. If yes, describe in final report.			
7. For systems that use, but do not own, land or facilities that are essential to water system operation: Is there a valid long-term contract (i.e., lease) between your water system and the owner of the land or facilities essential to the operation of your system?	<u>YES</u>	NO	N/A
8. For systems that have a single owner: Does the system have a contingency plan for continuing operation if the owner becomes incapable of carrying out his/her responsibilities?	YES	<u>NO</u>	N/A
TRAINING AND EXPERIENCE			
1. Do you know where to obtain ongoing training for system managers?	<u>YES</u>	NO	N/A
2. Does your system manager have experience or training in utility management?	YES	<u>NO</u>	N/A
3. Does your system manager have experience or training in drinking water regulations?	<u>YES</u>	NO	N/A
4. Does your system manager have experience or training in resource management (i.e., personnel, budget, facilities)?	<u>YES</u>	NO	N/A
CUSTOMER RELATIONS			
1. Do you prepare an annual Consumer Confidence Report for your customers on the status of your water system and water quality?	YES	<u>NO</u>	N/A
2. Does your system strive for quality service and to be responsive to customer needs?	<u>YES</u>	NO	N/A
3. Do you give notice to your customers on proposed policy, rates, and other significant changes?	<u>YES</u>	NO	N/A
4. Do you provide notice to customers of planned water outages or other actions which could disrupt their supply?	<u>YES</u>	NO	N/A
5. Did you submit your consumer confidence report to ALL your customers?	YES	NO	<u>N/A</u>
5A. If yes, by the due date?	YES	NO	<u>N/A</u>

**ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS**

RULES OR POLICIES		
1. Have you established rules or policies that define the conditions for receiving water service?	YES	NO N/A
2. Have you established rules or policies defining customer responsibilities?	YES	NO N/A
3. Have you established rules or policies defining the management of the system (e.g. setting rates, payments, meters, cross-connection control)?	YES	NO N/A

**ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS**

PART IV. FINANCIAL CAPACITY	
REVENUE SUFFICIENCY AND CREDIT WORTHINESS	
1. Do your system's revenues cover expenses? Does your rate structure produce income to cover:	YES NO N/A
1A. Current expenses	YES NO N/A
1B. Replacement Costs	YES NO N/A
1C. Reserves	YES NO N/A
2. Does your system have the ability to repay existing debt?	YES NO N/A
3. Does your system have specific rate and billing procedures for customers?	YES NO N/A
4. Does your system prepare an annual budget?	YES NO N/A
5. For this fiscal year, are you on target with budgeted income and expenses?	YES NO N/A
6. Have you assessed the remaining life of your facility and developed a schedule for its replacement?	YES NO N/A
7. Does your system prepare a capital budget, or have a reserve account?	YES NO N/A
8. Does your system have an emergency budget?	YES NO N/A
FISCAL CONTROLS	
1. Does your system have a long-range financial plan?	YES NO N/A
2. Do you review your rate structure annually? Do you use any of the following fiscal controls:	YES NO N/A
3. Monthly financial statements	YES NO N/A
4. Monthly review of financial statements by board, council, or owner	YES NO N/A
5. Annual audit	YES NO N/A
6. Written financial policies	YES NO N/A
7. Rate structure reviewed annually	YES NO N/A
8. Other fiscal control: _____	YES NO N/A
9. Are all contractual obligations being met?	YES NO N/A

ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS

ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS

PART V. WATER SYSTEM SECURITY		
STRUCTURES		
1. Does the system have an Emergency Operation Plan (EOP) that has task-specific steps to perform in case of an emergency?	LAST UPDATE: 12/1/2009	
1A. Updated and available at water facility?	YES NO N/A	
1B. Complete with current information (name, address, telephone and fax number, and email address of ADEQ and local health department)?	YES NO N/A	
2. Does the documentation include a site-specific Vulnerability Assessment (VA) ?	LAST UPDATE: N/A	
3. Does the site need general clean-up?	YES NO N/A	
4. Is the site properly fenced?	YES NO N/A	
5. Is the well building damaged?	YES NO N/A	
6. Is the well building secure?	YES NO N/A	
7. Is the security fence damaged?	YES NO N/A	
8. Is the security fence locked?	YES NO N/A	
9. Is the state well number posted?	YES NO N/A	
10. Are phone numbers posted?	YES NO N/A	
11. Is each active well and/or surface intake area inspected on a regular schedule?	YES NO N/A	
12. Is watershed adequately patrolled?	YES NO N/A	
13. Are all facilities regularly and thoroughly inspected?	YES NO N/A	
14. Where possible, is every access to water (outside clarifier, clearwell, reservoir, manhole, etc.) locked and/or fenced?	YES NO N/A	
15. Is protection provided to prevent a vehicle from hitting plant or other facilities?	YES NO N/A	
16. Are all stored chemicals protected from vandalism and accidents?	YES NO N/A	
17. Are all existing emergency interconnections to other water supply sources functional and exercised on a regular basis?	YES NO N/A	
18. Are all treatment plants, storage tanks, pump stations, and other remotely-located facilities connected to a main control station via telemetering, SCADA, or equivalent?	YES NO N/A	
19. Is a backup or exterior connection for electrical power supply provided?	YES NO N/A	
20. Are fire/smoke alarms provided within all structures?	YES NO N/A	
21. Is a finished water chlorine residual low-level alarm provided?	YES NO N/A	
22. Are all buildings (including walls, roof, windows, etc.) constructed to commercial grade standards?	YES NO N/A	

KEYS	
1. Are distribution and number of keys known and controlled?	YES NO N/A
2. Are all keys labeled as "DO NOT DUPLICATE"?	YES NO N/A
3. Are local emergency departments provided with access keys?	YES NO N/A
4. Are keys always removed from all unattended equipment and locks?	YES NO N/A
FENCING	
1. Are entire perimeters of treatment plant property, storage tank, and wellhead adequately fenced and gate(s) kept locked?	YES NO N/A
2. Is all fencing at least 10' high, with inward-facing barbed wire on top, including on entrance gate(s)?	YES NO N/A
3. Is all fencing, including gate(s), secure to ground to prevent access under fence?	YES NO N/A
4. Is fence at least 6' higher than any structure or landscaping?	YES NO N/A
LIGHTING	
1. Is entire perimeter of the facility illuminated with lighting fixtures?	YES NO N/A
2. Is entire perimeter of facility illuminated such that all shadows and dark areas are eliminated?	YES NO N/A
3. Is lighting provided in parking lots, treatment bays, and other areas with limited staffing?	YES NO N/A
ENTRANCE DOORS	
Are all:	
1. Built of commercial grade with metal frame construction?	YES NO N/A
2. Outside hinges hidden/protected from vandalism?	YES NO N/A
3. Provided with commercial grade, one-sided lock?	YES NO N/A
4. Provided with push ("panic") bar release on inside of door?	YES NO N/A
5. Visitor entrances provided with a doorbell?	YES NO N/A
6. Doors and locks in good condition?	YES NO N/A
WINDOWS	
1. Are all the windows (including on doors) covered with metal security mesh?	YES NO N/A
2. In case broken or opened, are all windows wired to loud audible alarm and to automatic telephone dialer or central station alarm?	YES NO N/A

**ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS**

FORMS		YES	NO	N/A
1.	Are emergency telephone numbers (including County or State, ambulance, police, FBI, spill response) current and prominently displayed at each telephone?	YES	NO	N/A
2.	Do you have a list of phone numbers of those to call in case of an emergency, plumbers, engineers, health officials?	YES	NO	N/A
3.	Do you have any emergency contract agreements for your system operator (e.g., emergency water interconnections and alternative sources)?	YES	NO	N/A
4.	Are Material Safety Data Sheet (MSDS) and chemical response information present for all stored chemicals?	YES	NO	N/A
WRITTEN PLANS				
1.	Is a chain of command and emergency call list established, updated annually, and prominently displayed?	YES	NO	N/A
2.	Does a written security program plan, which employees are frequently trained in and which is reevaluated periodically, exist?	YES	NO	N/A
3.	Are all employees trained on how to handle a threat? Written response procedures should be provided and practice drills should be conducted frequently.	YES	NO	N/A
4.	Are detection, response, and notification issues discussed with public health officials and a protocol established?	YES	NO	N/A
PROCEDURES				
1.	Can operational procedure times be varied so as not to reveal working patterns?	YES	NO	N/A
2.	Is a daily log used and initiated by last person who leaves the plant to verify that all (specific) doors and windows are locked, appliances are off, nightlights are on, and that entrance door is locked and alarm on?	YES	NO	N/A
3.	Are all employees fully aware of the importance of reporting any unusual entry point or distribution system monitoring result (such as chlorine residual), unusual customer complaint on water quality, or illness among the utilities' customers that may be associated with the water? A log of all such events should be maintained.	YES	NO	N/A
4.	Is access to computer networks and control systems controlled, and passwords changed frequently?	YES	NO	N/A
5.	Is cross training provided between operators?	YES	NO	N/A
6.	Are Memo Of Understanding (MOU's) with other agencies, particularly in regard to emergency response, reviewed and updated periodically?	YES	NO	N/A
7.	Are security measures discussed with all contractors/subcontractors prior to them working on site?	YES	NO	N/A

**ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS**

LAW ENFORCEMENT AGENCIES		YES	NO	N/A
1.	Are police departments (daytime and nighttime coverage) familiar with system facilities?	YES	NO	N/A
1A.	Do police conduct routine patrols of facilities?	YES	NO	N/A
1B.	Are protocols established for reporting and responding to threats and other emergencies? Protocols should be updated annually.	YES	NO	N/A
2.	Is staff aware to immediately report any criminal threat, security breach, attack, suspicious behavior, etc. on the water utilities?	YES	NO	N/A
3.	Are copies of operational procedures and system call list provided to police departments and emergency management personnel?	YES	NO	N/A
4.	Was a system facilities security survey conducted by the police department?	YES	NO	N/A
EMPLOYEES				
1.	Does each employee display a personal sealed photo ID at all times?	YES	NO	N/A
2.	Are background security checks conducted on employees prior to hiring?	YES	NO	N/A
2A.	If yes, are checks conducted periodically on all existing staff?	YES	NO	N/A
3.	Upon employee termination, are passcodes changed, and keys, IDs and access cards returned?	YES	NO	N/A
NON-EMPLOYEE ACCESS				
1.	Is a policy established for employees to limit/question/scrutinize any visitor, contractor, or stranger in facilities?	YES	NO	N/A
2.	Are all chemical and other supply deliverers required to show proper identification and to sign-in?	YES	NO	N/A
3.	Are chemicals inspected prior to allowing on site?	YES	NO	N/A
4.	Do employees observe delivery personnel during deliveries?	YES	NO	N/A
NEIGHBORS				
1.	Are important facility telephone numbers given to neighbors of all system facilities?	YES	NO	N/A
2.	Is an informal "Neighborhood Watch" program established around each system facility?	YES	NO	N/A

ARIZONA SYSTEM EVALUATION
FOR REGULATED PUBLIC WATER SYSTEMS

SIGNATURE BLOCK

Raymond S. Craft
Signature of Evaluator

12/22/2009
Date

RAYMOND S. CRAFT
Printed Name of Evaluator

Gail Spain
Signature of Owner, Certified Operator or
Administration Contact

12/22/2009
Date

GAIL SPAIN
Printed Name of Owner, Certified Operator or
Administration Contact

Parker Springs Water Company
PWS ID # 02045

Well Site



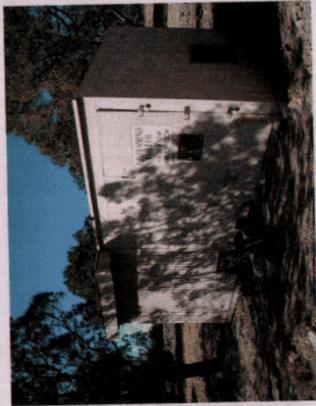
Well Signage and Security Fence

APPENDIX D

Site Photographs

D-1 Parker Springs Water Company (PWS #02045)
System Evaluation (2009)

D-2 Parker Springs Water Company (PWS #02045)
System Evaluation (2009)



Generator Building



Generator



Propane Tank

D-3 Parker Springs Water Company (PWS #02045)
System Evaluation (2009)



Well Pump Control Panel



Chlorine Solution Tank for Disinfection



Chlorine Solution Metering Pump and Tubing

D-4 Parker Springs Water Company (PWS #02045)
System Evaluation (2009)



Storage Tank with fence around access to top of tank.



Storage Tank where fence at bottom needs to be secured to ground.



Water Line Blowoff