

ORIGINAL



0000022092

1 Richard L. Sallquist
Sallquist & Drummond, P.C.
2 4500 South Lakeshore Drive
Suite 339
3 Tempe, Arizona 85282
Phone: (480) 839-5202
4 Fax: (480) 345-0412

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Arizona Corporation Commission
DOCKETED

AZ CORP COMMISSION
DOCUMENT CONTROL

JUL - 1 2005

DOCKETED BY	
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BEFORE THE ARIZONA CORPORATION COMMISSION

7 _____)
IN THE MATTER OF THE APPLICATION)
8 OF JOHNSON UTILITIES COMPANY FOR)
AN EXTENSION OF ITS CERTIFICATE)
9 OF CONVENIENCE AND NECESSITY)
FOR WATER AND WASTEWATER)
10 SERVICE. _____)

DOCKET NO. WS-02987A-^{CA}05-0288

APPLICANT'S RESPONSE
TO STAFF RESPONSE TO
PROCEDURAL ORDER

11 1. On June 21, 2005, Administrative Law Judge Nodes issued a Procedural Order
12 pursuant to which the Staff was required to respond to certain Morning Sun Farms Well No. 1
13 Data filed by the Company on June 9, 2005.

14 2. On June 27, 2005, Staff filed its Response indicating that it was of the opinion the
15 Company had inadequate water production capacity to serve the existing and requested
16 expansion area, even with the Morning Sun Farms Well No.1.

17 3. The Company herewith files a copy of the Company's June 17, 2005 filing with
18 Arizona Department of Environmental Quality ("ADEQ") showing on Table "A" thereto that the
19 Company has total production capacity 5,082 GPM based on the Company's hydrologist, Clear
20 Creek Associates, professional opinion of that well's capacity. This is substantially more than
21 the 3,670 GPM estimated by Staff.
22
23

1 4. Also attached are the supporting ADEQ Approvals of Construction for the
2 Morning Sun Farms Well No. 1 that produces 1,100 GPM, and the San Tan Heights No. 2 Well,
3 that produces 700 GPM, all as shown on Table "A".

4 5. The final enclosure is the Water Use Table, for the Company's 11-128 System
5 indicating the highest household consumption during 2005 of 211 gallons per month. This is
6 substantially less than the 2004 peak consumption estimated by Staff.

7 6. The Company estimates that June 2005 will indicate a higher residential
8 consumption than May 2005, but less than the peak consumption Staff used in the Staff Report.
9 The Company will file that information with the Commission when available.

10 WHEREFORE, the Applicant requests that the Staff modify the Staff Report in this
11 Docket to confirm the fact that the Company has adequate water to serve its existing Certificate
12 of Convenience and Necessity area plus the proposed expansion area.

13 RESPECTFULLY submitted this 1st day of July 2005.

14 SALLQUIST & DRUMMOND, P.C.
15 
16 By: _____
17 Richard L. Sallquist
18 4500 South Lakeshore Drive, Suite 339
19 Tempe, Arizona 85282
20 Phone: (480) 839-5202
21 Fax: (480) 345-0412

19 Original and ~~five~~^{five} copies of the
20 foregoing filed this 1st day
of July 2005:

21 Docket Control
22 Arizona Corporation Commission
23 1200 West Washington
Phoenix, Arizona 85007

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A copy of the foregoing
mailed/hand delivered this
1st day of July 2005, to:

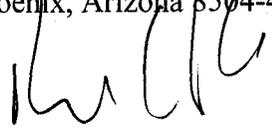
Judge Dwight Nodes
Hearing Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Steve Olea
Utilities Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Tim Sabo
Legal Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

John Chelus
Engineering Division
Arizona Corporation Commission
1200 West Washington
Phoenix, Arizona 85007

Sheryl L. Sweeney
Ryley Carlock & Applewhite
One North Central Ave., Suite 2600
Phoenix, Arizona 85004-4417



JOHNSON UTILITIES COMPANY L.L.C

5230 East Shea Boulevard * Scottsdale, Arizona 85254

PH: (480) 998-3300; FAX: (480) 483-7908

June 17, 2005

Kwame Agyare
Senior Environmental Engineer
Arizona Department of Environmental Quality
1110 W. Washington Street
Phoenix, AZ 85007

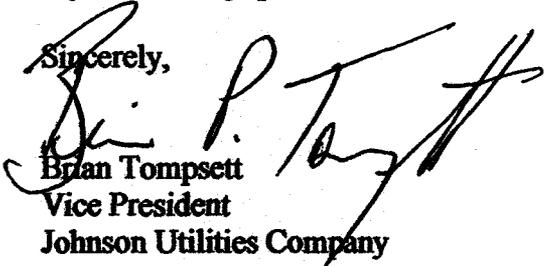
RE: Johnson Utilities Company – System #11-128

Dear Mr. Agyare:

Attached is the revised Johnson Utilities Company commitment list for System #11-128 effective 6/17/05. The Morning Sun Farms Well (ADWR # 55-201429) was tested at 1,100 gpm as documented by the attached pumping test report prepared by Clear Creek Associates, June 15, 2005. This increased capacity increases the total estimated well production from 4,732 gpm to 5,082 gpm.

If you have any questions or comments, please contact me a 480 998-3300.

Sincerely,


Brian Pompsett
Vice President

Johnson Utilities Company

Johnson Utilities Company - System #11-128

**PRODUCTION OPTIONS WITHIN JOHNSON UTILITIES SERVICE AREA
Note: LOW NITRATES HAVE BEEN ASSUMED FOR ALL PRODUCTION WELLS
EXCEPT FOR WELL #4.**

Well Identification Name System # 11-128	Well Identification Number	LOCATED WITHIN THE AREA OF:	ADEQ FILE NUMBER	ESTIMATED TOTAL FLOW PER WELL Including R.O. loss (gal/min)	Option #1	Option #2
					Well #4 "Untreated" ESTIMATED PRODUCTION CAPABILITY PER WELL IN: (gal/day)	Well #4+#5 "blended & treated" Plus Others ESTIMATED PRODUCTION CAPABILITY PER WELL IN: (gal/day)

Production:

J.R. Well No. 4 (untreated)	55-558445	Johnson	980006	500	720,000	0
J.R. Well No. 4 (Treated with R.O. Unit)	55-558445	Johnson	980006	0	0	0
J.R. Well #4 plus #5 (blended)	55-559843	Johnson	980006	1000	0	0
J.R. Well #4 plus #5 (blended & treated)	Misc.	Johnson	980006	917	0	1,320,480
Edwards Road Water Plant No. 2 (untreated) (1)	55-586189	Johnson	2007037	35	50,400	50,400
Oasis Well No. 1 (untreated)(2)	55-582085	Oasis	20010611	110	158,400	158,400
Oasis Well No. 3 (untreated)(2)	55-582087	Oasis	20010611	110	158,400	158,400
Oasis Well No. 2 (untreated)(2)	55-582088	Oasis	20010611	110	158,400	158,400
Skyline (untreated) (3)	55-821462	Skyline	20020539	1000	1,440,000	1,440,000
Circle Cross Well #1 (untreated)	55-599026	Circle Cross	20020489	1000	1,440,000	1,440,000
Morning Sun Farms (4)	55-201429	Morning Sun	20050258	1100	1,584,000	1,584,000
San Tan Heights #2 (5)	55-598836	San Tan Hts.	20050161	700	1,008,000	1,008,000
TOTAL ESTIMATED WELL PRODUCTION (GPD)					6,717,600	7,318,080
TOTAL ESTIMATED WELL PRODUCTION (GPM)					4,665	5,082

Storage:

Johnson Ranch Water Plant No. 1	980115	Johnson	980115	500,000	500,000	28,146
Johnson Ranch Water Plant No. 1	20000556	Johnson	20000556	100,000	100,000	Units served @ 260 Gall/unit/day
Oasis Water Plant No. 1	20000349	Oasis	20000349	500,000	500,000	
Edwards Road Water Plant No. 2	20070377	Johnson	20070377	50,000	50,000	
Circle Cross Water Plant No. 1	20020489	Circle Cross	20020489	500,000	500,000	
San Tan Water Plant No. 1	20020539	San Tan	20020539	1,000,000	1,000,000	
Production from J.R. Well #4 plus #5 (blended)	980006	Johnson	980006	1,320,480	1,320,480	
TOTAL ESTIMATED STORAGE CAPACITY (Gallons)					3,970,480	
LESS FIRE STORAGE CAPACITY AS REQUIRED BY FIRE DISTRICT (Gallons)					-120,000	
WELL PRODUCTION WITHOUT CIRCLE CROSS OPERATING (Gallons/day)					6,310,080	
ESTIMATED 1 DAY SYSTEM PRODUCTION and STORAGE CAPACITY (Gallons)					10,160,560	

Units served @ 260 Gal/unit/day **39,079**

(*) Pending indicates that the improvement plans have been submitted to ADEQ.

(1) Indicates actual maximum flow data

(2) Indicates actual maximum flow & permitted data

(3) Indicates actual & permitted data

(4) ADEQ approval of construction issued June 3, 2005.

(5) ADEQ approval of construction issued April 18, 2005.



Practical Solutions
in Groundwater Science

6155 E. Indian School Rd., Suite 200
Scottsdale, Arizona 85251
480-659-7131 office
480-659-7143 fax
www.clearcreekassociates.com

June 15, 2005
Mr. Gary Larsen – Operations Manager
Johnson Utilities
968 East Hunt Highway, P.O. Box 87
Queen Creek, Arizona 85242

Re: Pumping Test Results: Morning Sun Farms Well (ADWR Registration No. 55-201429)

Dear Mr. Larsen:

This letter report summarizes the results of a 4-hour constant rate test conducted on June 9, 2005 on Johnson Utilities Morning Sun Farms well. The Morning Sun Farms well is registered under ADWR Registration No. 55-201429, and is a replacement well for ADWR Well Number 55-507141, which was abandoned. The letter report has been prepared as one of the requirements outlined in the Arizona Department of Environmental Quality (ADEQ) Engineering Bulletin no. 10 Guidelines for the Construction of Water Systems (ADEQ May, 1978). Engineering Bulletin no. 10 states, "*Individual wells shall be test pumped at a constant pumping rate that is not less than that planned for the final pump installation. The well shall be pumped at this rate for not less than four hours, and at least until a sustained yield is obtained with a static drawdown. Measurements of the water level recovery can then be made (page 2-9).*"

The subject well is located in Township 3 South, Range 7 East, in the northwest $\frac{1}{4}$ of the northwest $\frac{1}{4}$ of the northeast $\frac{1}{4}$ of Section 12 (D-03-07 12ABB) in Pinal County. Well construction was completed on May 12, 2004 by Preston Well Drilling of Mesa, Arizona. The well was constructed with 12 $\frac{1}{4}$ -inch (O.D.) steel casing from 0 to 700 feet. The subject well is screened from 560 to 660 feet below land surface (bls). A 4-hour constant rate aquifer test was conducted on the Morning Sun Farms well on June 9, 2005 to facilitate a determination of the local aquifer characteristics. Hydrogeologic conditions such as localized aquifer boundaries that may affect the well's capacity after extended pumping intervals can also be detected from this data. After pumping the well for 4-hours at a constant rate of approximately 1,100 gallons per minute (gpm) the water levels were monitored for 30-minutes until the water level in the well reached 95 percent recovery, relative to the static water level prior to the start of the constant rate test. The well had been previously equipped with an electric submersible pump by Preston Well Drilling. The flow rate was monitored by an in-line flow meter (analog) and discharge water was directed to a nearby retention basin.

The static water level in the Morning Sun Farms well was measured at 325.44 feet bls from the top of casing just prior to starting the pump on June 9, 2005. Water level data were collected manually by use of

an electric well sounder. Upon starting the pump, water levels were initially measured at one minute intervals. The time duration between water level measurements was gradually extended to once every 15 minutes by the end of the constant rate test. The discharge rate was held constant at approximately 1,100 gallons per minute (gpm) for the duration of the test, the pump was turned off and recovery was monitored for 30 minutes. The time duration between water level measurements during recovery was initially measured at one minute intervals and then extended to 5 minute intervals. The water level datasheet for the aquifer test is presented in Table 1.

The Cooper-Jacob Plot of drawdown data collected from the Morning Sun Farms well during the constant rate aquifer test is presented in Figure 1. The maximum recorded drawdown at the end of the constant rate test was 32.18 feet, equivalent to a pumping water level of 347.62 feet bls. The pumping rate at the end of the constant rate test was approximately 1,100 gpm; this equates to a specific capacity of approximately 49.6 gpm/ft. The Cooper-Jacob plot (Figure 1) illustrates water level drawdown relative to pumping time. The Theis Recovery Plot of residual drawdown data for the Morning Sun Farms well illustrating the water level recovery is presented in Figure 2.

Based on the constant rate test data for the Morning Sun Farms well, the Cooper-Jacob Plot (Figure 1) indicates that the transmissivity is about 372,300 gallons per day per foot (gpd/ft), and the corresponding Theis Recovery Plot (Figure 2) indicates a transmissivity of approximately 937,000 gpd/ft. Based on assumed equivalent water production across the entire screened interval of 100 feet (560 ft. – 660 ft.), the effective hydraulic conductivity (K) of the aquifer surrounding the Morning Sun Farms well is approximately 3,723 gallons per day per square foot (gpd/ft²) or 497 feet per day (ft/d) based on the Cooper-Jacob Plot. The Theis Recovery Plot indicates an effective K of approximately 9,370 gpd/ft² or approximately 1,250 ft/d.

Sincerely,

CLEAR CREEK ASSOCIATES, PLC



Steven W. Corell, R.G.

cc: Brian Tompsett, Johnson Utilities
Greg Brown, Specific Engineering

Attachments



Table 1
Aquifer Test Data

Johnson Utilities Morning Sun Farms Well
 Location: D(03-07)12abb
 ADWR Registration No.: 55-201429
 Date of Test: June 9, 2005
 Screen: 580 to 660 ft.
 Pump Setting: Unknown
 Casing Diameter: 12 3/4-inch

Time of Measurement	Time Since Pump Started (t min)	Correction Recovery Time (r min)	2.40 b/r	MP= SWL=		Top of Casing 325.44		
				Sounder Reading (feet)	Water Level (feet)	Drawdown (feet)	Discharge (gpm)	Spec-Cap (gpm/ft)
6:30	0			327.84	325.44	0.00	-	-
6:31	1			-	-	-	-	-
6:32	2			348.25	345.85	20.41	1100	53.90
6:33	3			348.50	346.10	20.66	1100	53.24
6:34	4			348.60	346.20	20.78	1100	52.99
6:35	5			348.89	346.29	20.85	1100	52.76
6:36	6			348.76	346.36	20.82	1100	52.68
6:37	7			348.61	346.41	20.87	1100	52.46
6:38	8			348.88	346.48	21.04	1100	52.28
6:39	9			348.90	346.50	21.06	1100	52.23
6:40	10			348.94	346.54	21.10	1100	52.13
6:42	12			349.10	346.70	21.26	1100	51.74
6:44	14			349.15	346.75	21.31	1100	51.62
6:46	16			349.17	346.77	21.33	1100	51.57
6:48	18			349.20	346.80	21.38	1100	51.50
6:50	20			349.21	346.81	21.37	1100	51.47
6:55	25			349.31	346.91	21.47	1100	51.23
7:00	30			349.38	346.98	21.54	1100	51.07
7:10	40			349.46	347.06	21.62	1100	50.88
7:20	50			349.55	347.15	21.71	1100	50.67
7:30	60			349.64	347.24	21.80	1100	50.46
7:45	75			349.66	347.26	21.82	1100	50.41
8:00	90			349.68	347.28	21.84	1100	50.37
8:15	105			349.76	347.36	21.92	1100	50.18
8:30	120			349.84	347.44	22.00	1100	50.00
8:45	135			349.87	347.47	22.03	1100	49.93
9:00	150			349.97	347.57	22.13	1100	49.71
9:15	165			350.00	347.60	22.18	1100	49.64
9:30	180			350.03	347.63	22.19	1100	49.57
9:45	195			350.02	347.62	22.18	1100	49.59
10:00	210			350.02	347.62	22.18	1100	49.59
10:15	225			350.04	347.64	22.20	1100	49.56
10:30	240			350.02	347.62	22.18	1100	49.58
10:31	241	1	241.00	328.60	326.20	0.78		
10:32	242	2	121.00	328.46	326.06	0.62		
10:33	243	3	81.00	328.38	325.98	0.54		
10:34	244	4	61.00	328.34	325.94	0.50		
10:35	245	5	49.00	328.31	325.91	0.47		
10:36	246	6	41.00	328.29	325.89	0.45		
10:37	247	7	35.29	328.27	325.87	0.43		
10:38	248	8	31.00	328.24	325.84	0.40		
10:39	249	9	27.67	328.23	325.83	0.39		
10:40	250	10	25.00	328.22	325.82	0.38		
10:42	252	12	21.00	328.20	325.80	0.36		
10:44	254	14	18.14	328.18	325.78	0.34		
10:46	256	16	16.00	328.16	325.76	0.32		
10:48	258	18	14.33	328.14	325.74	0.30		
10:50	260	20	13.00	328.13	325.73	0.29		
10:55	265	25	10.60	328.11	325.71	0.27		
11:00	270	30	9.00	328.09	325.69	0.25		



FIGURE 1
Cooper-Jacob Plot Constant Rate Test
Morning Sun Farms Well (55-201429)
Location: D(03-07)12ABB Date: June 9, 2005

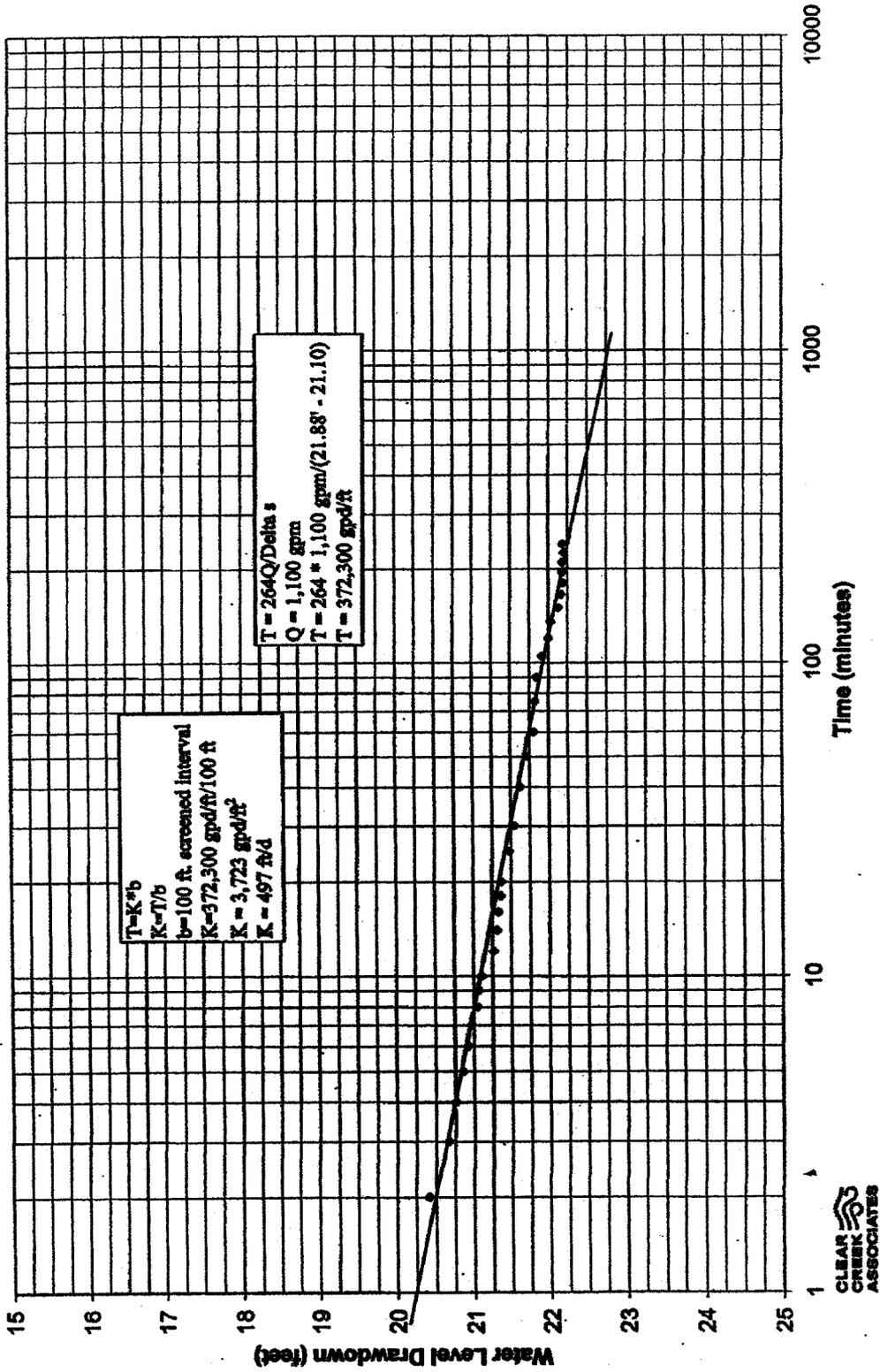
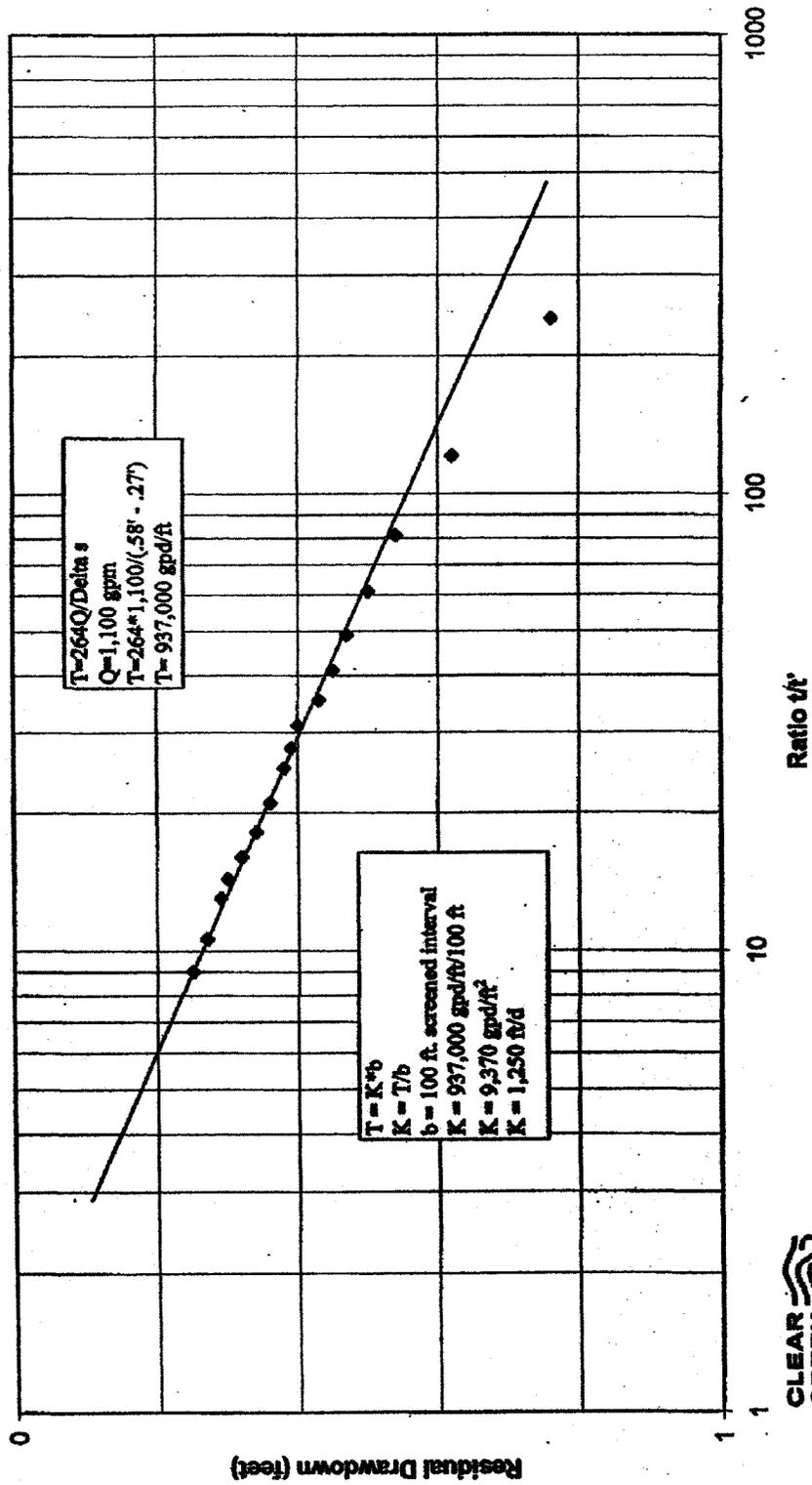


FIGURE 2
Theis Recovery Plot
Johnson Utilities Morning Sun Farms Well
Location: D03-0712ABB (55-201429)
Date: June 9, 2005



JOHNSON UTILITIES COMPANY

5230 E. Shea Blvd., Suite 200
Scottsdale, AZ 85254
(480) 998-3300, Fax (480) 483-7908

To: Kwame Agyare
ADEQ

Date: June 17, 2005

Job No.: _____

Drawing/Spec Reference: _____

Re: Johnson Utilities Company commitment list for System #11-128, 6/17/05

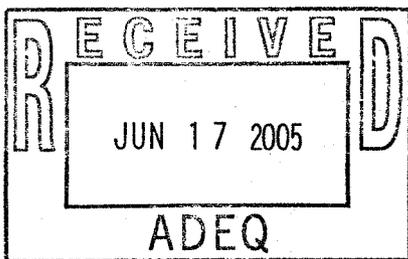
We Transmit: Herewith Under Separate Cover Via _____

Material Format

Requested Action

- | | | | |
|--|--|---|---|
| <input checked="" type="checkbox"/> Letter | <input type="checkbox"/> Shop Drawings | <input type="checkbox"/> For Your Approval | <input type="checkbox"/> Your Review |
| <input type="checkbox"/> Memo | <input type="checkbox"/> Clarification Drawing | <input type="checkbox"/> For Your Signature | <input type="checkbox"/> Please Comment |
| Prints | <input type="checkbox"/> Modification Drawing | Information | <input type="checkbox"/> Make Recommendation |
| <input type="checkbox"/> Sketch | <input type="checkbox"/> Specifications | <input type="checkbox"/> Resubmit | <input type="checkbox"/> Issue Construction Order |
| <input type="checkbox"/> Reports | <input type="checkbox"/> Sepias | As Requested | <input type="checkbox"/> For Your Use |
| <input type="checkbox"/> Mylars | <input type="checkbox"/> _____ | <input type="checkbox"/> Issue Change Order | <input type="checkbox"/> _____ |

Remarks:



Copies To: _____

Signed: _____

Brian Tompsett

Operation Manager

Received By: *A. Curro*

Date: _____

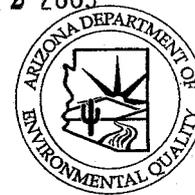


Janet Napolitano
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • azdeq.gov

APR 22 2005



Stephen A. Owens
Director

APPROVAL OF CONSTRUCTION

Page 1 of 2

Project Description: Construction of new San Tan Well site with DWR #55-598836 along Hunt Highway.

Location: Pinal

Project Owner: Johnson Utilities
Address: 5230 East Shea Blvd., Ste., 200
Scottsdale, AZ 85254

The Arizona Department of Environmental Quality (ADEQ) hereby issues an Approval of Construction for the above-described facility based on the following provisions of Arizona Administrative Code (A.A.C.) R18-5-507 et seq.

On March 24, 2005, ADEQ issued a Certificate of Approval to Construct for the referenced project.

On April 13, 2005, Gregory H. Brown, P.E., certified the following:

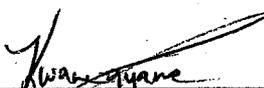
- a final construction inspection was conducted on April 8, 2005;
- the referenced project was constructed according to the as-built plans and specifications and ADEQ's Certificate of Approval to Construct;
- water system pressure and leakage tests for the line was conducted on April 5, 2005 and the results were within the allowable leakage rates; and
- the well and piping were disinfected on April 7, 2005 according to an ADEQ-approved method.

Microbiological samples were collected on April 11, 2005 and analyzed on April 12, 2005 by Statewide Disinfection Service, ADHS License No. AZ0637. The sample results were negative for total coliform.

This Approval of Construction is subject to the provision 1 on page two of this approval. Be advised that A.A.C. R18-4-124 requires the owner of a public water system to maintain and operate all water production, treatment and distribution facilities in accordance with ADEQ Safe Drinking Water Rules.

RK1

PWS No.: 11-128
LTF No.: 36105


 Kwame A. Agyare, P.E., Acting Manager 4/18/05
 Technical Engineering Unit Date Approved
 Drinking Water Section

c: TEU File No.: 20050161
 DWCEU Facility File
 CRO Approval of Construction File
 Pinal County Health Department
 Pinal County Planning & Zoning Department
 AZ Corporation Commission
 Engineer

Northern Regional Office
 1515 East Cedar Avenue • Suite F • Flagstaff, AZ 86004
 (928) 779-0313

Southern Regional Office
 400 West Congress Street • Suite 433 • Tucson, AZ 85701
 (520) 628-6733

**APPROVAL OF CONSTRUCTION
WATER FACILITIES
ADEQ FILE NO. 20050161
PAGE 2 OF 2: PROVISIONS CONTINUED**

1. An initial nitrate sample taken from the well showed an MCL exceedance of 10.3mg/l. A confirmation sample taken on April 4, 2005 showed a nitrate level of 7.51mg/l. In accordance with R18-4-208(J), the average of these two samples was used to determine compliance with the MCL of 10mg/l. This result however requires that the water system shall increase monitoring frequency at the sampling point from annually to quarterly, as per R18-4-208(F).

JUN 20 2005



Janet Napolitano
Governor

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

1110 West Washington Street • Phoenix, Arizona 85007
(602) 771-2300 • azdeq.gov



Stephen A. Owens
Director

APPROVAL OF CONSTRUCTION

Project Description: Replacing existing well with new well with ADWR #55-201429 (also known as Morning Sun Farms Well No. 1) and connecting it to existing main as per approved plans and specifications.

Location: Town of Maricopa, Pinal County

Project Owner: Johnson Utilities Company
Address: 5230 E. Shea Blvd., Suite 220, Scottsdale, Arizona 85254

The Arizona Department of Environmental Quality (ADEQ) hereby issues an Approval of Construction for the above-described facility based on the following provisions of Arizona Administrative Code (A.A.C.) R18-5-507 et seq.

On April 29, 2005, ADEQ issued a Certificate of Approval to Construct for the referenced project.

On May 18, 2005, Gregory H. Brown, P.E., certified the following:

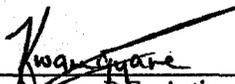
- a final construction inspection was conducted on May 18, 2005;
- the referenced project was constructed according to the approved plans and specifications and ADEQ's Certificate of Approval to Construct;

Microbiological sample was collected on March 2, 2005, and analyzed on the same day by Legend Technical Services, Inc., ADHS License No. AZ0004. The sample results were negative for total coliforms and E. coli bacteria.

This Approval of Construction authorizes the owner to begin operating the above-described facilities as represented in the approved plan on file with the ADEQ. Be advised that A.A.C. R18-5-124 requires the owner of a public water system to maintain and operate all water production, treatment and distribution facilities in accordance with ADEQ Safe Drinking Water Rules.

jd1

PWS No.:11-128
LTF No.: 36549


 Kwame A. Agyare, P.E., Acting Manager Date Approved 6/03/05
 Technical Engineering Unit
 Drinking Water Section

c: TEU File No.: 20050258
Pinal County Health Department
Pinal County Planning & Zoning Department
AZ Corporation Commission
Engineer

Northern Regional Office
1515 East Cedar Avenue • Suite F • Flagstaff, AZ 86004
(928) 779-0313

Southern Regional Office
400 West Congress Street • Suite 433 • Tucson, AZ 85701
(520) 628-6733

ADEQ 2005 WATER USE

JOHNSON UTILITIES SYSTEM ID NO 11-128

MONTH	NUMBER OF CUSTOMERS	GALLONS SOLD	GALLONS PUMPED	AVG. GALLONS PER HOUSEHOLD
Dec-04	8508	38,154,460	44,987,900	144.66
JAN	8867	39,483,999	39,974,500	143.64
FEB	9569	36,621,000	43,569,000	136.68
MAR	10285	41,208,000	53,364,400	129.25
APR	10553	63,920,000	77,400,400	201.90
MAY	10833	71,016,000	80,812,800	211.47
JUN				
JUL				
AUG				
SEP				
OCT				
NOV				
DEC				