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Arizona Corporation Commission

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1 FENNEMORE CRAIG 2014 JUN -3 P 3:47
A Professional Corporation
2 Patrick J. Black (No. 017141)
2394 E. Camelback Rd, Suite 600
3 Phoenix, Arizona 85016
4 Telephone (602) 916-5000

ARIZONA CORPORATION COMMISSION
DOCKET CONTROL

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5 Attorneys for Liberty Utilities (Litchfield Park Water and Sewer), Corp.

7 **BEFORE THE ARIZONA CORPORATION COMMISSION**

8 IN THE MATTER OF THE APPLICATION
9 OF LIBERTY UTILITIES (LITCHFIELD
10 PARK WATER AND SEWER), CORP. FOR
11 A CERTIFICATE OF CONVENIENCE AND
12 NECESSITY TO PROVIDE
WASTEWATER UTILITY SERVICE IN
MARICOPA COUNTY, ARIZONA

DOCKET NO. SW-01428A-14-0180

**APPLICATION FOR EXTENSION OF
CERTIFICATE OF CONVENIENCE
AND NECESSITY**

13
14 Pursuant to A.A.C. R14-2-602, Liberty Utilities (Litchfield Park Water and Sewer)
15 Corp. ("Applicant"), an Arizona public service corporation, hereby applies to the Arizona
16 Corporation Commission ("Commission") for an Order approving the extension of
17 Applicant's existing Certificate of Convenience and Necessity ("CC&N") to provide
18 water utility service in certain defined portions of Maricopa County, Arizona.

19
20 **INTRODUCTION**

21 Marbella Ranch (the "Property") is an approximately 365 acre property located on
22 the El Mirage Road alignment between Glendale Avenue and Northern Avenue. The
23 Property is within the City of Glendale strip annex and planning area, but is currently part
24 of unincorporated Maricopa County. The Property is currently zoned Rural-43 by
25 Maricopa County. The Luke Air Force Base ("Luke") Air Installation Compatible Use
26 Zone runs along the northwestern portion of the Property.

1 The Property is currently owned by El Paso Natural Gas, LLC, and was originally
2 designated for natural gas storage. While this use is allowed under the current zoning, it is
3 considered incompatible with the operations of Luke. The Property is now vacant, and
4 under contract for sale to TRS 8, LLC, the developer of the Marbella Ranch project
5 (“Developer”). The Developer has filed a rezoning request and comprehensive plan
6 amendment with Maricopa County so that the maximum number of dwelling units on the
7 Property will not exceed 1,260 units. A portion of the property is planned for open space
8 or industrial uses. Luke supports the Developer’s request.

9 On April 17, 2014, Applicant filed an application for an extension of its water
10 CC&N covering the Property. Upon the request of Commission Staff, Applicant intends
11 to file a Motion to Consolidate the two applications in the interest of judicial economy and
12 efficient use of Staff resources.

13 APPLICATION

14 In support of this Application, Applicant states as follows:

15 1. Applicant is a public service corporation formed for the purpose of
16 providing water and wastewater utility service in Maricopa County, Arizona. The proper
17 name, address and corporate structure for Applicant, including the amount of stock
18 authorized and subsequently issues, are attached hereto as **Exhibit 1**.

19 2. Applicant’s Certificate of Good Standing from the Commission is attached
20 hereto as **Exhibit 2**.

21 3. A full list of names, titles and mailing addresses for Applicant’s officers and
22 directors is attached hereto as **Exhibit 3**.

23 4. Applicant’s management contact is Greg Sorensen, 12725 W. Indian School
24 Road, Suite D-101. Avondale, AZ 85392. His telephone number is (623) 298-3763.

25
26

1 5. Applicant's operator certified by the ADEQ is Matthew Garlick, whose
2 business address is 12725 W. Indian School Road, Suite D-101. Avondale, AZ 85392.
3 The telephone number is (623) 298-3763. Matthew Garlick is also the on-site manager
4 for Applicant.

5 6. Applicant's attorneys are Fennemore Craig, P.C. whose address is 2394 E.
6 Camelback Road, Suite 600, Phoenix, Arizona 85016-3429. The individual attorney
7 responsible for this application is Patrick J. Black. Mr. Black's telephone number is (602)
8 916-5400. All Data Requests or other Requests for Information should be directed to
9 Greg Sorensen, with a copy to Mr. Black's attention, on behalf of Applicant.

10 7. The area covered by this Application includes approximately 368.2 acres
11 ("Requested Area"), which represents property owned by the requesting developer. All
12 property included within the Requested Area is part of the Marbella Ranch development;
13 as such, there are no landowners within the Requested Area who did not request an
14 extension of wastewater utility service. The City of Glendale is the closest municipality
15 with portions of the CC&N Extension Area being part of the City of Glendale strip annex
16 along both Glendale Ave. and Northern Ave. However, with the exception of the strip
17 annex within the road right-of-way, the CC&N Extension area is within unincorporated
18 Maricopa County. Also within five miles is the City of Goodyear, the City of Avondale,
19 the City of Litchfield Park, the City of Phoenix, the City of Peoria, the Town of El
20 Mirage, the Town of Youngtown and the City of Surprise.

21 8. Legal descriptions for the Requested Area are attached hereto as **Exhibit 4**.

22 9. A complete description of the facilities proposed to be constructed is
23 contained in the Preliminary Engineering Report for Marbella Ranch, attached hereto as
24 **Exhibit 5**.

25 10. The estimated total cost for construction of facilities required to serve the
26 proposed area is attached hereto as **Exhibit 6**. Construction of the offsite and onsite

1 facilities will be financed through a combination of contributions and advances in aid of
2 construction made by the Developer, as well as capital improvements (equity) paid for by
3 Applicant.

4 11. A general Statement of Financial Condition is attached hereto as **Exhibit 7**.

5 12. Applicant will be charging its existing rates and charges. A copy of
6 Applicants existing tariffed rate schedule is attached hereto as **Exhibit 8**.

7 13. Applicant's estimated annual operating revenue and operating expenses for
8 each of the first five years of operation in the Requested Area is attached hereto as
9 **Exhibit 9**.

10 14. Phase 1 of Marbella Ranch is located in the southern portion of the
11 Requested Area and consists of 600 single family homes. Construction of the first phase
12 of off-site and on-site water facilities to serve the development is scheduled to begin
13 within 18 months of receipt of Commission approval of this CC&N Application and is
14 expected to take approximately one year to complete. Additional phases of on-site
15 facilities for Phase 1 will be constructed as individual parcels are developed within Phase
16 1. Phase 2 of Marbella Ranch is located in the northern portion of the Requested Area and
17 includes 660 dwelling units and a 50.5 acre industrial parcel. Construction of initial
18 wastewater facilities for Phase 2 is expected to begin one year after completion of phase
19 one facilities and is expected to take approximately one year to complete. Additional
20 phase of on-site facilities for Phase 2 will be constructed as individual parcels are
21 developed within Phase 2.

22 15. A written request for the extension of wastewater utility service for the
23 Requested Area is attached hereto as **Exhibit 10**.

24 16. Detailed maps of the Requested Area is attached hereto as **Exhibit 11**. Five
25 separate maps labeled Map 11-1, Map 11-2, Map 11-3, Map 11-4 and Map 11-5 are
26 provided. Map 11-1 shows the Requested Area and municipal corporate limits that

1 overlap with or are within five miles of the area. Map 11-2 shows the Requested Area and
2 its relationship to the service areas of public service corporations, municipalities, or
3 districts currently providing water or wastewater service within one mile of the Requested
4 Area, with identification of the entity providing service and each type of service being
5 provided. Map 11-3 includes:

- 6 ● the boundaries of the Requested Area, with the total acreage noted.
- 7 ● the land ownership boundaries within the Requested Area, with the acreage
8 of each separately owned parcel within the Requested Area noted.
- 9 ● the owner of each parcel within the Requested Area.
- 10 ● that there are not any known sewer service connections that are already
11 being provided service by the applicant within the Requested Area.
- 12 ● the location of all parcels for which a copy of a request for service has been
13 submitted.

14 Map 11-4 shows the location of Marbella Ranch, the only proposed development within
15 the area. Map 11-5 shows the proposed location of the principal components of the sewer
16 system planned for the Requested Area.

17 17. A copy of the notice sent to municipal managers/administrators for
18 municipalities within a five (5) mile radius, are attached hereto as **Exhibit 12**.

19 18. Applicant has or will obtain all appropriate city, county and/or state agency
20 approvals required to provide water utility service in the Requested Area. Applicant is
21 preparing an amendment to the Maricopa Association of Governments (“MAG”) 208
22 Water Quality Management Plan (MAG 208 Plan) and expects to file the MAG 208 Plan
23 amendment with MAG by June 30, 2014. Applicant expects the MAG 208 Plan
24 amendment to be approved by MAG in approximately six months with ADEQ and EPA
25 approvals to follow.

26

1 19. The estimated numbers of customers to be served in each of the first five
2 years of wastewater utility service in the Requested Area is attached hereto as **Exhibit 13**.

3 20. ADEQ Construction Authorizations issued for facilities to be constructed in
4 the Requested Area will be provided to the Commission as soon as Applicant receives
5 them.

6 21. The Requested Area is not currently within any water service provider's
7 service area. However, Applicant filed an application to provide water service in the
8 Requested Area on April 17, 2014.

9 22. Applicant will treat all wastewater generated within the Requested Area at
10 its Palm Valley Water Reclamation Facility. Treated effluent will either be delivered for
11 direct use or recharged into the regional aquifer.

12 23. ADEQ will no longer issue compliance status reports directly to wastewater
13 providers. Applicant will send a written request to ADEQ asking that the agency send the
14 most current compliance status report directly to the Commission.

15 24. Applicants Aquifer Protection Permit issued by ADEQ is attached hereto as
16 **Exhibit 14**.

17 25. Applicant's Wastewater Use Data Sheet for the period ending is attached
18 hereto as **Exhibit 15**.

19 26. A notarized signature on behalf of Applicant is attached hereto as **Exhibit**
20 **16**.

21 27. For the reasons stated herein, Applicant maintains that this Application is in
22 the public interest and should be granted. There is a need for regulated water utility
23 service in Maricopa County to ensure the public health, and foster orderly growth.

24 WHEREFORE, Applicant respectfully requests the following:

25 A. That the Commission proceeds to consider and act upon this Application as
26 timely as possible and to schedule a hearing, if necessary, on this matter;

1 B. That upon completion of said hearing that the Commission enter an Order
2 approving the Application to include the Requested Area as shown in **Exhibit 11** and
3 described in **Exhibit 4**;

4 C. That the Commission grant such other and further relief as may be
5 appropriate under the circumstances herein.

6 RESPECTFULLY SUBMITTED this 3rd day of June, 2014.

7 FENNEMORE CRAIG, P.C.

8
9 By: 
10 Patrick J. Black
11 Attorneys for Liberty Utilities (Litchfield
12 Park Water and Sewer) Corp.

13 **ORIGINAL** and 15 copies filed
14 this 3rd day of June, 2014 with:

15 Docket Control
16 Arizona Corporation Commission
17 1200 West Washington Street
18 Phoenix, Arizona 85007

19 By: 
20

21 9196317.1/035227.0035
22
23
24
25
26

List of Exhibits

1. The proper name, address and corporate structure for Applicant
2. Applicant's Certificate of Good Standing from the Arizona Corporation Commission
3. A full list of names, titles and mailing addresses for Applicant's officers and directors
4. Legal description of the Requested Area.
5. Master Wastewater Report for Marbella Ranch containing description of the facilities proposed to be constructed
6. Estimated total construction costs and plant cost projections
7. Applicant's General Statement of Financial Condition
8. Applicant's Tariff – Schedule of Rates and Charges
9. Annual Revenue and Expenses – First Five Years
10. Written Request for Service
11. Maps of Existing CC&N and Requested Area
12. Notice to be Sent to Municipalities within 5 mile of Requested Area
13. Estimated Number of Customers – First Five Years
14. ADEQ Aquifer Protection Permit
15. Applicant's Wastewater Use Data Sheet
16. Notarized Signature of Steve Carlson on Behalf of Applicant

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1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF AN CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 **Exhibit 1**

7 **Applicant's Proper Name:** Liberty Utilities (Litchfield Park Water & Sewer) Corp.

8 **Applicant's Address:** 12725 W. Indian School Road, Suite D-101

9 **Applicant's Corporate Structure:** For-profit public service Chapter "C" Corporation

10 500,000 Shares authorized

11 7,820 shares issued on February 24, 2003 (in the name of Liberty Water Co.)

12 **Officers and Directors and mailing addresses:**

13 **OFFICERS**

14 Ian Robertson, Chief Executive Officer

15 2845 Bristol Circle

16 Oakville, ON L6H 7H7

17 David Bronicheski, Treasurer and Secretary

18 2845 Bristol Circle

19 Oakville, ON L6H 7H7

20 **DIRECTORS**

21 Gregory S. Sorensen, President – Arizona

22 12725 W. Indian School Road, Suite D-101

23 Avondale, AZ 85392

24 Ian Robertson, President

25 2845 Bristol Circle

26 Oakville, ON L6H 7H7

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 **Exhibit 2**

7 **(Certificate of Good Standing)**
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STATE OF ARIZONA



Office of the
CORPORATION COMMISSION

CERTIFICATE OF GOOD STANDING

To all to whom these presents shall come, greeting:

I, Jodi A. Jerich, Executive Director of the Arizona Corporation Commission, do hereby certify that

*****LIBERTY UTILITIES (LITCHFIELD PARK WATER & SEWER) CORP.*****

a domestic corporation organized under the laws of the State of Arizona, did incorporate on September 21, 1954.

I further certify that according to the records of the Arizona Corporation Commission, as of the date set forth hereunder, the said corporation is not administratively dissolved for failure to comply with the provisions of the Arizona Business Corporation Act; and that its most recent Annual Report, subject to the provisions of A.R.S. sections 10-122, 10-123, 10-125 & 10-1622, has been delivered to the Arizona Corporation Commission for filing; and that the said corporation has not filed Articles of Dissolution as of the date of this certificate.

This certificate relates only to the legal existence of the above named entity as of the date issued. This certificate is not to be construed as an endorsement, recommendation, or notice of approval of the entity's condition or business activities and practices.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the Arizona Corporation Commission. Done at Phoenix, the Capital, this 28th Day of May, 2014, A. D.





Jodi A. Jerich, Executive Director

By: _____ 1070890

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 **Exhibit 3**

7 **(List of Officers and Directors)**

8 **OFFICERS**

9 Ian Robertson, Chief Executive Officer
10 2845 Bristol Circle
11 Oakville, ON L6H 7H7

12 David Bronicheski, Treasurer and Secretary
13 2845 Bristol Circle
14 Oakville, ON L6H 7H7

15 **DIRECTORS**

16 Gregory S. Sorensen, President – Arizona
17 12725 W. Indian School Road, Suite D-101
18 Avondale, AZ 85392

19 Ian Robertson, President
20 2845 Bristol Circle
21 Oakville, ON L6H 7H7
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1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 **Exhibit 4**

7
8 **(Legal Description of Requested Area)**

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Exhibit 4

**Legal Description
Liberty Utilities (Litchfield Park Water & Sewer) Corp.
Wastewater CC&N Extension**

That portion of Section 2, Township 2 North, Range 1 West of the Gila and Salt River Base and Meridian, Maricopa County, Arizona more particularly described as follows:

The Northeast Quarter of said Section 2;

EXCEPT the south 20.00 feet of said Northeast Quarter;

The East ½ of the Northwest Quarter of said Section 2;

EXCEPT the south 20.00 feet of said Northwest Quarter, and;
the west 400.44 feet of the south 1,724.91 feet of said Northwest Quarter;

The Southeast Quarter of said Section 2;

EXCEPT the north 140.00 feet of said Southeast Quarter.

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 Exhibit 5

7 (Master Water Report)
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PRELIMINARY ENGINEERING REPORT SEWER MASTER PLAN

**Marbella Ranch
Section 2, T2N, R1W
Maricopa County, Arizona**

May 27, 2014

Prepared for:
TRS 8, LLC
18835 North Thompson Peak Parkway, Suite 215
Scottsdale, AZ 85255

Prepared By:
ARICOR Water Solutions LC
25213 N. 49th Drive
Phoenix, AZ 85083
(623) 341-4771 FAX (623) 582-5160



ARICOR
Water Solutions

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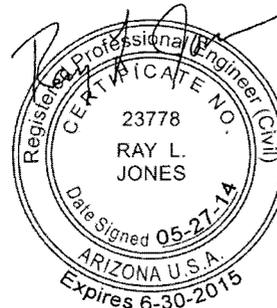
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1. Executive Summary

Marbella Ranch is an approximately 365 acre property that will be provided sewer service by Liberty Utilities (Litchfield Park Water & Sewer) Corp. ("Liberty"). Liberty will file an application with the Arizona Corporation Commission to extend its Certificate of Convenience and Necessity ("CC&N") to include the Marbella Ranch project.

Marbella Ranch is an approximately 365 acre property under contract to TRS 8, LLC who will develop the Marbella Ranch project. Marbella Ranch will be developed in phases. Phase 1 of Marbella Ranch is located in the southern portion of the property and is planned for 600 single family homes. Phase 2 of Marbella Ranch is located in the northern portion of the property and is planned for 660 dwelling units and includes a 50.5 acre industrial parcel. The maximum number of dwelling units on the Property will not exceed 1,260 units.

Design criteria are in accordance with the requirements of Liberty as presented in Liberty's Development Guide for Maricopa County Properties dated October 22, 2009.

Liberty has requested that Marbella Ranch sewer flows connect to an existing trunk sewer main located in the El Mirage Road right of way approximately 1,000 feet north of Camelback Road. The required off-site sewer main will extend approximately 9,620 feet from the intersection of Glendale Avenue and El Mirage Road to the existing trunk sewer main.

The on-site sewer collection facilities will include a backbone network of 12" and 8" diameter sewer collection and a network of 8" diameter sewer collection mains within the various Marbella Ranch parcels. Due to physical constraints imposed by the Dysart Drain, a lift station and force main is required to pump sewer flows from Marbella Ranch Phase 2 across the Dysart Drain and into the Phase 1 backbone sewer collection system.

The proposed system meets the master planning criteria as established by Liberty. The existing Liberty sewer collection system has adequate capacity and can be extended to provide sewer service to Marbella Ranch. Sewer treatment requirements will be met from the existing Palm Valley Water Reclamation Facility.

2. Introduction

2.1 Objective

This preliminary engineering report will determine on-site sewer collection system requirements for the Marbella Ranch project. Marbella Ranch is an approximately 365 acre property within the City of Glendale strip annex and planning area but is actually part of unincorporated Maricopa County. Sewer service will be provided by Liberty Utilities (Litchfield Park Water & Sewer) Corp. ("Liberty"). Liberty will file an application with the Arizona Corporation Commission to extend its Certificate of Convenience and Necessity ("CC&N") to include the Marbella Ranch project. This report is being prepared in support of the CC&N application.

2.2 Project Location

The Marbella Ranch project is located on the El Mirage Road alignment between Glendale Avenue and Northern Avenue in Section 2, Township 2 North, Range 1 West. The project is within the City of Glendale strip annex and planning area but is actually part of unincorporated Maricopa County. Luke Air Force Base ("Luke") is located to the west of Marbella Ranch. The Luke Air Force Base ("Luke") Air Installation Compatible Use Zone ("AICUZ") runs along the northwestern portion of the property. See Figure 2.1.

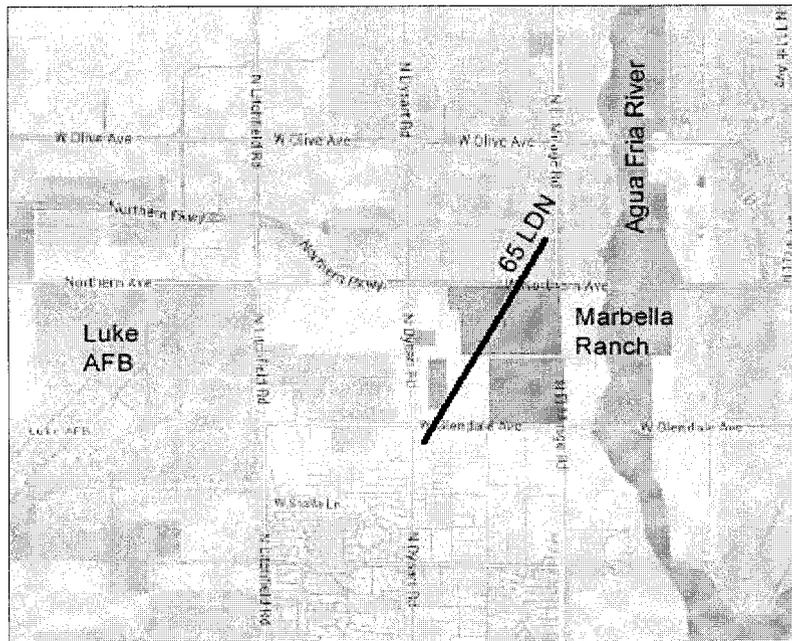


Figure 2.1 – Area Map

2.3 Topographic Conditions

The property ranges in elevation from approximately 1,086.5 ft at the northeastern corner of Marbella Ranch to a low of 1,060 ft at the southeastern corner of Marbella Ranch. Historic drainage is along a line from the center of the property at the north border through the

southeastern corner. This historic drainage has been cut-off by the Dysart Drain, which runs easterly through the center of the project. Accordingly, the northern portion of the property drains from both the east and west towards the historic drainage and then south into the Dysart Drain. The southern portion of the property drains along the historic drainage to the southeastern corner of the property.

2.4 Proposed Development

Marbella Ranch is an approximately 365 acre property currently owned by El Paso Natural Gas, LLC ("El Paso"). The Property is under contract to TRS 8, LLC who will develop the Marbella Ranch project. The Property is currently zoned Rural-43 by Maricopa County.

On March 3, 2014 TRS 8, LLC filed with Maricopa County Case CPA2014002 – Comprehensive Plan Amendment and Case Z2014011 – Rezoning Request. The requested plan amendment and rezoning request is for a Multiple-Family Residential (R-5) Residential Unit Plan of Development ("RUPD") zoning district on the property outside of the AICUZ line for single family detached and attached residential subdivisions with a variety of lot widths, as well as the potential for multi-family residential (apartment units). The maximum number of dwelling units on the Property will not exceed 1,260 units. The portion of the property within the AICUZ lines is planned for open space or industrial uses. Luke supports the Rezoning Application and Comprehensive Plan Amendment.

Marbella Ranch will be developed in phases. Phase 1 of Marbella Ranch is located in the southern portion of the property and is planned for 600 single family homes. Construction of the first phase of the development is scheduled to begin in 2016 and is expected to take approximately five years to build-out.

Phase 2 of Marbella Ranch is located in the northern portion of the property and is planned for 660 dwelling units and includes a 50.5 acre industrial parcel. The current plan is for 300 single family homes and 360 apartment units in the residential portion of Phase 2. However, the R-5, RUPD zoning provides flexibility in regard to what type of residential units are constructed. Accordingly, this report will consider all units in Phase 2 to be single family homes so that projected sewer flow is not understated.

Construction of Phase 2 of the development is expected to begin about two years after the start of Phase 1 and is expected to take approximately five years to build-out. Overall project build-out is expected to take approximately seven years with home sales estimated at 200 units per year.

Figure 2.2 is a development map for Marbella Ranch.

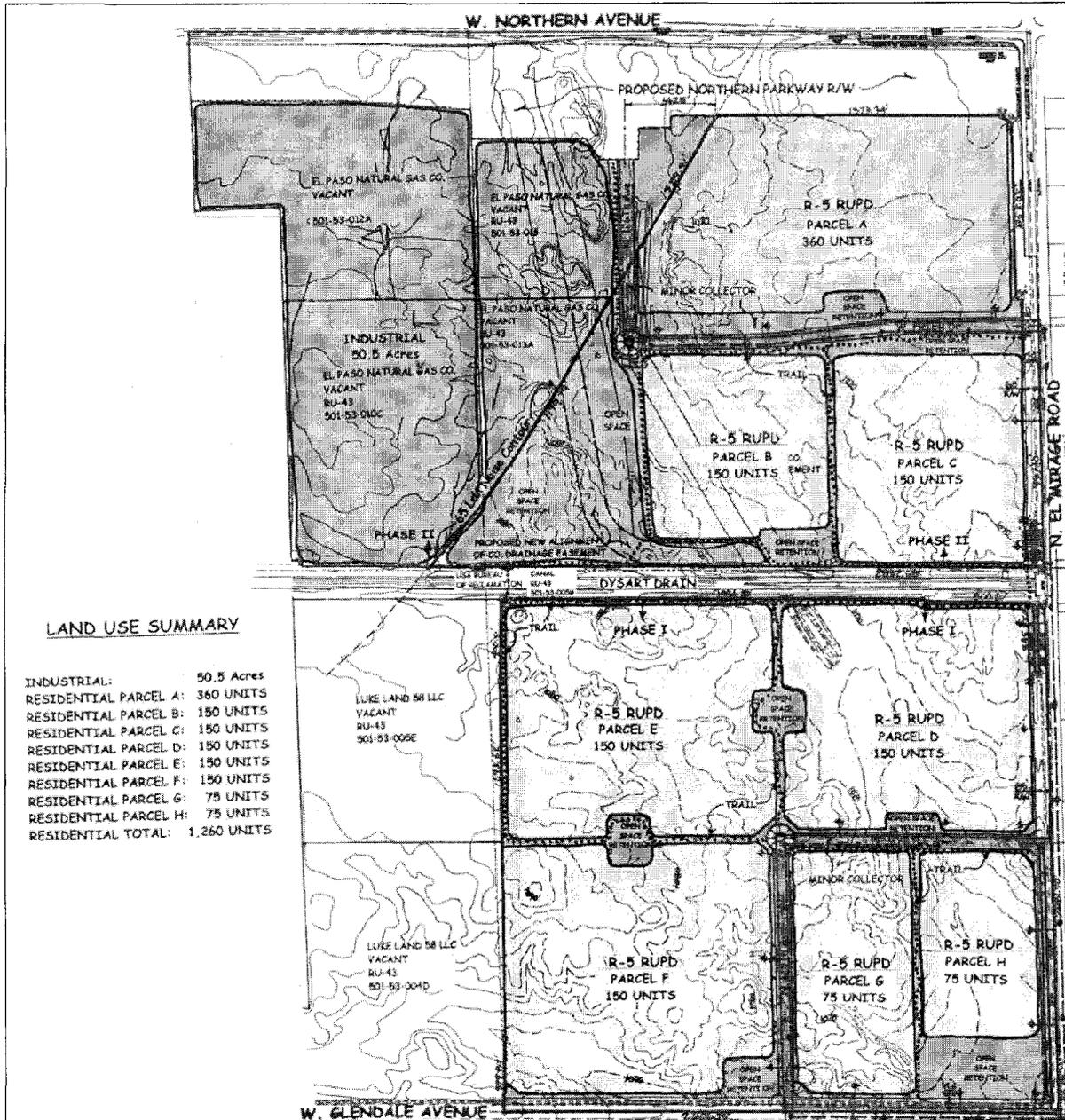


Figure 2.2 – Marbella Ranch Development Map

3. Design Criteria

All design criteria are in accordance with the requirements of Liberty as presented in Liberty's *Development Guide for Maricopa County Properties* dated October 22, 2009. The Liberty design criteria exceed minimum standards established by the Arizona Department of Environmental Quality ("ADEQ") for sewer systems.

Liberty specifies the demand criteria as shown in Table 3.1.

Table 3.1 – Liberty Demand Criteria

Land Use	Average Daily Flow (gpcd)	Capita/DU	Peak Hour Peaking Factor
Single Family	100	3.2	3.0
Multi Family	100	2.0	3.0
Commercial	1,500 gpd/acre	n/a	3.0

Liberty establishes the additional sewer system criteria presented in Table 3.2.

Table 3.2 – Additional Sewer System Criteria

Category	Criteria
Sewer Depth of Cover	7'-6" minimum for trunk-lines 5'-0" minimum for all other provided that service lines Have 4'-6" minimum cover at the property line.
Manning's Roughness Coefficient	N=0.013
Velocities	2.0 fps minimum at peak hour 2.0 fps minimum at average daily flow for trunk lines 10.0 fps maximum
Manhole Spacing	500' maximum for lines less than 18" diameter
Sewer Capacity Ratio	d/D = 0.75 maximum at peak hour
Minimum Pipe Diameter	8", 12" along section lines, 6" for force mains
Force Main Velocities	3.0 fps minimum 7.0 fps maximum
Manhole Invert Drops	<45° direction change – 0.1' drop across manhole ≥45° direction change – 0.2' drop across manhole

The sewer collection system design for Marbella Ranch was based on the design criteria as provided by Liberty. However, since Liberty does not specify a demand for industrial uses, after consultation with Liberty, a demand of 750 gpd/acre was selected as appropriate for the planned industrial uses in Marbella Ranch. For the 50.5 acre industrial parcel, the estimated sewer flow using 750 gpd/acre is equivalent to an industrial use supporting 1,515 employees

using ADEQ standards. Table 3.3 summarizes the sewer master planning factors utilized for Marbella Ranch.

Table 3.3 – Summary Sewer Master Planning Factors

Population and Demand Factors				
Land Use	Pop Density (capita/DU)	Demand (per day)		
		Gallons Per Capita	Gallons Per	Unit
SF	3.2	100	-	Dwelling Unit
MF	2.0	100	-	Dwelling Unit
COMM			1,500	Acre
IND			750	Acre
OS			-	Acre

4. Sewer Flows

Table 4.1 presents the land use and resulting sewer flows for Marbella Ranch using the master planning criteria established by Liberty.

Table 4.1 – Land Use and Sewer Flows

Parcel	Land Use	Acres	Residential Dwelling Units	Other Demand Units	Pop Density (capita/DU)	Population	Demand Per Capita	Demand Per Other	Flows	Flows
									Avg Day (gpd)	Peak Hour (gpd)
Phase 1										
D	SF	32.0	150		3.2	480	100	-	48,000	144,000
E	SF	34.5	150		3.2	480	100	-	48,000	144,000
F	SF	34.0	150		3.2	480	100	-	48,000	144,000
G	SF	17.0	75		3.2	240	100	-	24,000	72,000
H	SF	12.0	75		3.2	240	100	-	24,000	72,000
Open Space	OS	12.0	-	Acre	-	-	-	-	-	-
ROW	OS	5.0	-	Acre	-	-	-	-	-	-
		146.5	600			1,920				
Phase 2										
A	MF	45.0	360		2.0	720	100	-	72,000	216,000
B	SF	22.0	150		3.2	480	100	-	48,000	144,000
C	SF	20.0	150		3.2	480	100	-	48,000	144,000
Industrial	IND	50.5	-	Acre	-	-	-	750	37,875	113,625
Open Space	OS	75.0	-	Acre	-	-	-	-	-	-
ROW	OS	6.0	-	Acre	-	-	-	-	-	-
		218.5	660			1,680				
TOTALS		365.0	1,260			3,600			397,875	1,193,625
						Peaking Factor:	3.00			

5. Existing Facilities/Conditions

Liberty's existing service area consists of approximately 21 square miles located southwest of Marbella Ranch and north of Interstate Highway 10. Liberty provides sewer collection and treatment service for all of the City of Litchfield Park and portions of Avondale, Buckeye, Glendale, Goodyear and unincorporated Maricopa County.

Liberty's existing sewer collection and treatment facilities include the Palm Valley Water Reclamation Facility ("PVWRF"), located at 14222 W. McDowell Road, which was constructed and placed into service in February 2001. The current permitted capacity of the PVWRF is 5.1

MGD with the required Aquifer Protection Permit being issued by ADEQ on April 13, 2012. This facility is expandable to 8.0 MGD and was designed primarily to serve all residential and commercial development from Cotton Lane on the west to Dysart Road on the east and from McDowell Road on the south to the northern limit of Liberty's sewer service area.

Liberty has verified that the PVWRF has sufficient capacity to serve Marbella Ranch and that Liberty will expand capacity of the PVWRF to meet sewer treatment requirements as new customers connect and sewer flows increase in its sewer service area.

Liberty owns and operates a trunk sewer line that extends from the PVWRF northerly to a point in El Mirage Road approximately 1,000 feet north of Camelback Road ("Existing Trunk Sewer Main"). The Existing Trunk Sewer Main begins as a 30" diameter line and decreases in diameter in steps from 24" to 21" to 18" to 15" when it reaches Camelback and El Mirage Roads. Liberty has advised that the Existing Trunk Sewer Main has sufficient capacity to accept Marbella Ranch flows.

6. Proposed Facilities

Liberty has requested that Marbella Ranch sewer flows connect to the Existing Trunk Sewer Main located in the El Mirage Road right of way approximately 1,000 feet north of Camelback Road. The required off-site sewer main will extend approximately 9,620 feet from the intersection of Glendale Avenue and El Mirage Road to the Existing Trunk Sewer Main.

Liberty's sewer collection system will be extended from the off-site main through the Marbella Ranch development and to individual homes and businesses. The on-site sewer collection facilities will include a backbone network of 12" and 8" diameter sewer collection mains ("Backbone Collection Mains") and a network of 8" diameter sewer collection mains within the various Marbella Ranch parcels.

Due to physical constraints imposed by the Dysart Drain, a lift station and force main is required to pump sewer flows from Marbella Ranch Phase 2 across the Dysart Drain and into the Phase 1 backbone sewer collection system. The design flow for the lift station is 0.618 MGD or 430 gpm. The lift station will include a wet well, duplex pumps, backup generator and odor control facilities. A 6" diameter force main will be required. At a flow of 430 gpm the flow velocity is 4.87 ft/sec, meeting Liberty and ADEQ requirements. Prior to construction of the lift station and force main, a detailed lift station and force main design report will be required to verify compliance with ADEQ design requirements described in R18-9-E301.D.

The Backbone Collection Mains, lift station and force main required to serve Marbella Ranch were sized by subdividing the Marbella Ranch development into tributary areas to the Backbone Collection Main. Topography, land use and the anticipated alignment of proposed roadways and utility corridors were used in identifying the sub-areas. The proposed tributary areas were analyzed to verify that all of the tributary areas could gravity drain into the Backbone Collection Main using 8" diameter sewer lines laid at minimum slope. Refer to Table 6.1 on the following pages for calculations, population data, sewer sizes, sewer slopes, sewer capacities, sewer velocities and other pertinent information required to size the Backbone Collection Mains.

Following Table 6.1, Figure 6.1 provides a map of the planned Backbone Collection Mains, lift station and force main. An engineer's estimate of cost for all required collection facilities is provided in appendix 1.

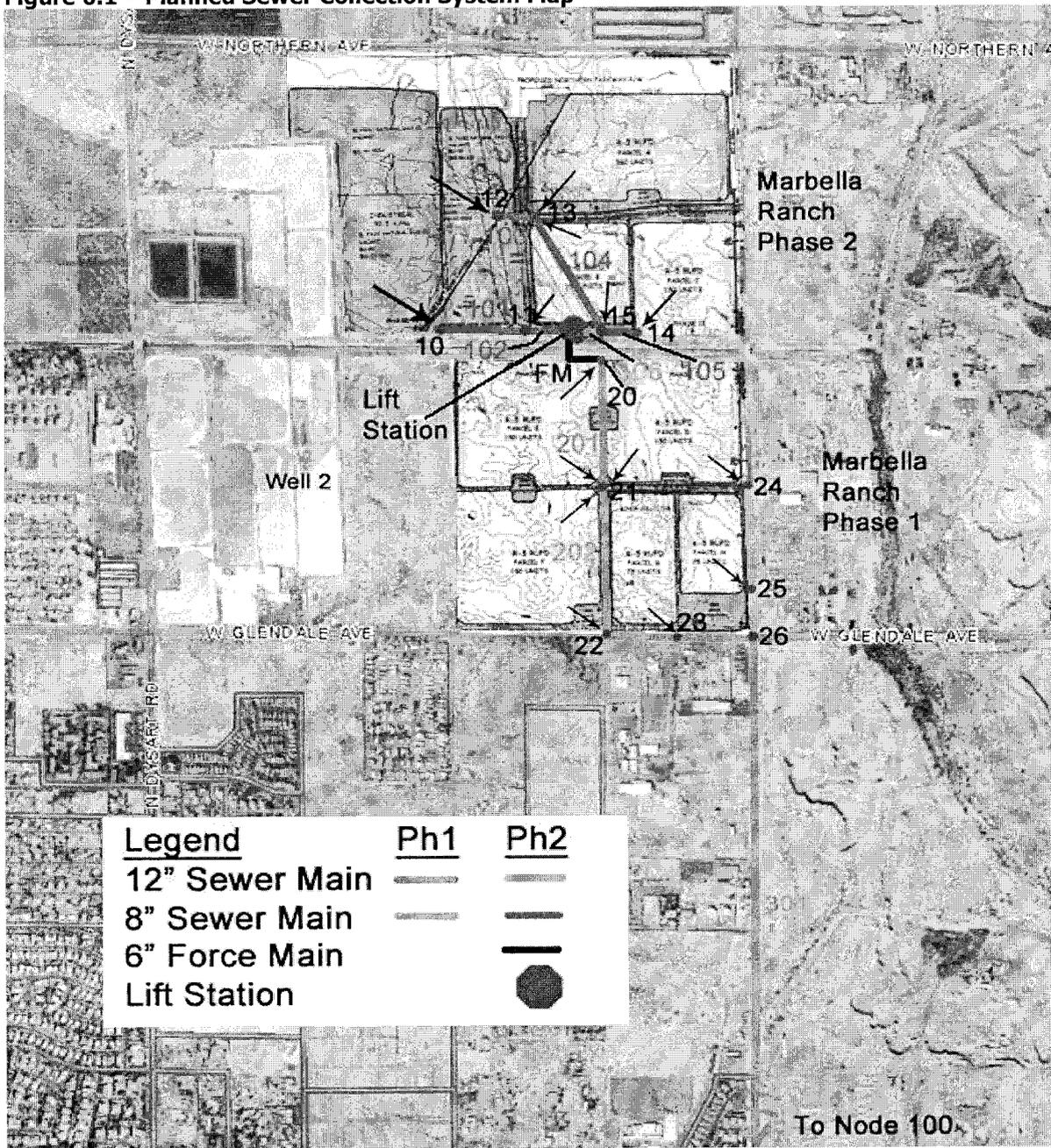
Table 6.1 – Backbone Collection Main Sizing														
Pipe #	Contributing Pipes	Upstream (U.S.) Node	Upstream Estimated Invert Elevation	Estimated U.S. Natural Ground Elev. (1)	Estimated U.S. Depth to Invert (feet)	Downstream (D.S.) Node	Downstream Estimated Invert Elevation	Estimated D.S. Natural Ground Elev. (1)	Estimated D.S. Depth to Invert (feet)	Line Diameter (inches)	Estimated Length (feet)	Sewer Line Slope (feet per foot)	Population Collected by Sewer (2)	Cumulative Population Served by Sewer
Reach 1														
101	none	10	1,068.00	1,078.00	10.0	11	1,065.55	1,080.00	14.5	8	700	0.0033	0	0
102	101	11	1,065.45	1,080.00	14.6	LS	1,064.05	1,071.00	6.9	8	400	0.0033	120	120
Reach 2														
103	none	12	1,066.00	1,074.00	8.0	13	1,064.95	1,074.00	9.0	8	300	0.0033	0	0
104	103	13	1,064.85	1,074.00	9.1	15	1,060.30	1,071.00	10.7	8	1,300	0.0033	960	960
105	none	14	1,064.00	1,074.00	10.0	15	1,062.95	1,071.00	8.0	8	300	0.0033	600	600
106	104, 105	15	1,060.10	1,071.00	10.9	LS	1,059.63	1,071.00	11.4	12	225	0.0019	0	1,560
Liftstation & Forcemain														
FM	102, 106	LS	1,059.63	1,071.00	11.4	20	1,066.00	1,071.00	5.0	6	250	n/a	0	1,680
Reach 3														
201	FM	20	1,062.00	1,071.00	9.0	21	1,059.48	1,073.50	14.0	12	1,200	0.0019	360	2,040
202	201	21	1,059.38	1,073.50	14.1	22	1,056.61	1,073.00	16.4	12	1,320	0.0019	600	2,640
203	202	22	1,056.41	1,073.00	16.6	23	1,053.64	1,067.00	13.4	12	660	0.0040	120	2,760
204	203	23	1,053.54	1,067.00	13.5	26	1,050.60	1,064.00	13.4	12	700	0.0040	240	3,000
Reach 4														
205	none	24	1,061.00	1,069.00	8.0	25	1,056.00	1,064.00	8.0	8	1,000	0.0048	360	360
206	205	25	1,055.90	1,064.00	8.1	26	1,054.30	1,064.00	9.7	8	320	0.0048	240	600
Off-Site Sewer														
301	204, 206	26	1,050.40	1,064.00	13.6	100	1,015.10	1,028.20	13.1	12	9,620	0.0034	0	3,600



Table 6.1 – Backbone Collection Main Sizing

Estimated Avg. Daily Flow (Liberty)	Peaking Factor (Liberty) (4)	Estimated Avg. Daily Flow (ADEQ)	Peaking Factor (ADEQ) (6)	Estimated Peak Flow (mgd) (7)	Estimated Peak Flow Cumulative (mgd)	Sewer Line Capacity (mgd) (8)	Depth Ratio at Peak Flow (d/D)	Flow Velocity at Peak Flow (ft/sec)	Velocity with Pipe Flowing Full (ft/sec)	Contributing Area	Dwelling Units	Industrial Acres (9)
0.0379	3.00	0.0379	3.00	0.114	0.114	0.45	0.34	1.66	2.00	Industrial	0	50.5
0.0120	3.00	0.0096	3.62	0.036	0.150	0.45	0.40	1.84	2.00	Parcel B - W (25% of flow)	38	0
0.0379	3.00	0.0379	3.00	0.114	0.114	0.45	0.34	1.66	2.00	Industrial	0	50.5
0.0960	3.00	0.0768	2.42	0.288	0.402	0.45	0.74	2.26	2.00	Industrial, Parcel A, Parcel B - N (50%)	435	0
0.0600	3.00	0.0480	2.56	0.180	0.180	0.45	0.44	1.88	2.00	Parcel B - S (25%), Parcel C	188	0
0.1939	3.00	0.1627	2.2522	0.582	0.582	1.00	0.55	2.06	2.00		623	51
0.2059	3.00	0.1723	2.23	0.618	0.618	0.89	n/a	4.87	n/a		660	50.5
0.0360	3.00	0.0288	2.18	0.108	0.726	1.00	0.63	2.18	2.00	Parcel E - N (75% of flow)	113	0
0.0600	3.00	0.0480	2.12	0.180	0.906	1.00	0.74	2.26	2.00	Parcel E - S (25%), Parcel D - W (25%), Parcel F - N (75%)	188	0
0.0120	3.00	0.0096	2.11	0.036	0.942	1.46	0.59	3.06	2.89	Parcel F - S (25%)	38	0
0.0240	3.00	0.0192	2.09	0.072	1.014	1.46	0.62	3.12	2.89	Parcel G	75	0
0.0360	3.00	0.0288	2.90	0.108	0.108	0.54	0.30	1.88	2.41	Parcel D - E (75%)	113	0
0.0240	3.00	0.0192	2.56	0.072	0.180	0.54	0.40	2.22	2.41	Parcel H	75	0
0.3979	3.00	0.3259	2.05	1.194	1.194	1.34	0.74	3.00	2.66		1,260	50.5

Figure 6.1 – Planned Sewer Collection System Map



7. Summary/Conclusions

Based on the analysis presented in this report, the existing Liberty sewer collection system has adequate capacity and can be extended to provide sewer service to Marbella Ranch. The proposed system meets the sewer master planning criteria as established by Liberty and ADEQ. Sewer treatment requirements will be met from the existing PVWRF.

APPENDIX 1

o

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 **Exhibit 6**

7 **(Estimated Total Construction Costs and**
8 **Plant Cost Projections)**

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Liberty Utilities (Litchfield Park Water & Sewer) Corp.
 Marbella Ranch - Sewer Facilities
 Estimate of Construction Cost

5/27/2014
 Prepared by ARICOR Water Solutions

Item Description	Quantity	Units	Unit Price	Amount	NARUC	Detail Plant Account By Year					
						Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Phase I											
Off-Site El Mirage Trunk Sewer Main (South of Glendale)											
12" SDR 35 PVC (imported backfill per McDOT requirements)	9,620	lf	\$ 90.00	\$ 865,800	361	\$ 865,800					
48" Manholes	20	ea	5,000.00	100,000	361	100,000					
Allowance for Special Construction	1	lot	50,000.00	50,000	361	50,000					
Pavement Replacement	12,800	sy	30.00	384,000	361	384,000					
Engineering & Permits	1	lot	10%	140,000	361	140,000					
Contingency	1	lot	5%	70,000	361	70,000					
Total				\$ 1,609,800		\$ 1,609,800					
On-Site Sewer Trunk Mains											
12" SDR 35 PVC (imported backfill per McDOT requirements)	1,360	lf	\$ 90.00	\$ 122,400	361	\$ 122,400					
12" SDR 35 PVC (native backfill)	2,520	lf	60.00	151,200	361	151,200					
8" SDR 35 PVC (imported backfill per McDOT requirements)	1,320	lf	60.00	79,200	361	79,200					
48" Manholes	15	ea	5,000.00	75,000	361	75,000					
Pavement Replacement	2,400	sy	30.00	72,000	361	72,000					
Engineering & Permits	1	lot	12%	59,976	361	59,976					
Contingency	1	lot	5%	24,990	361	24,990					
Total				\$ 584,766		\$ 584,766					
On-Site Sewer Collection System (within subdivisions)											
8" SDR 35 PVC (native backfill)	20,250	lf	\$ 40.00	\$ 810,000	361	\$ 202,500	\$ 202,500	\$ 202,500	\$ 202,500		
48" Manholes	53	lf	2,600.00	137,800	361	33,125	33,125	33,125	33,125		
4" PVC Services	600	ea	550.00	330,000	363	82,500	82,500	82,500	82,500		
Engineering & Permits	1	lot	12%	152,700	361	38,175	38,175	38,175	38,175		
Contingency	1	lot	5%	63,625	361	15,906	15,906	15,906	15,907		
Total				\$ 1,488,825		\$ 372,206	\$ 372,206	\$ 372,206	\$ 372,207		
TOTAL ON-SITE											\$ 2,073,591
TOTAL PHASE 1											\$ 3,683,391
Phase II											
Lift Station & Force Main											
Wet Well	1	lot	\$ 200,000	\$ 200,000	370		\$ 200,000				
Extend Power to Site	1	lot	10,000.00	10,000	371		10,000				
Site Work	1	lot	15,000.00	15,000	354		15,000				
Pumps	1	ea	50,000.00	50,000	371		50,000				
Piping & Valves	1	lot	25,000.00	25,000	371		25,000				
Electrical	1	lot	25,000.00	25,000	371		25,000				
Genset	1	ea	30,000.00	30,000	355		30,000				
Odor Control System	1	lot	20,000.00	20,000	371		20,000				
8" C-800 PVC	250	lf	45.00	11,250	360						
Dysart Drain Crossing (Cased Overshoot)	150	lf	200.00	30,000	360						
Engineering & Permits	1	lot	15%	32,438	371		32,438				
Contingency	1	lot	5%	20,813	371		20,813				
Total				\$ 469,500			\$ 428,250				
On-Site Sewer Trunk Mains											
12" SDR 35 PVC (native backfill)	150	lf	\$ 60.00	\$ 9,000	361		\$ 9,000				
8" SDR 35 PVC (native backfill)	3,000	lf	40.00	120,000	361		120,000				
48" Manholes	9	ea	2,500.00	22,500	361		22,500				
Engineering & Permits	1	lot	12%	18,180	361		18,180				
Contingency	1	lot	5%	7,575	361		7,575				
Total				\$ 177,255			\$ 177,255				
On-Site Sewer Collection System (within subdivisions)											
8" SDR 35 PVC (native backfill)	22,275	lf	\$ 40.00	\$ 891,000	361		\$ 222,750	\$ 222,750	\$ 222,750	\$ 222,750	
48" Manholes	58	lf	2,500.00	145,000	361		36,250	36,250	36,250	36,250	
4" PVC Services	660	ea	550.00	363,000	363		90,750	90,750	90,750	90,750	
Engineering & Permits	1	lot	12%	167,880	361		41,970	41,970	41,970	41,970	
Contingency	1	lot	5%	69,950	361		17,488	17,488	17,488	17,486	
Total				\$ 1,636,830			\$ 409,208	\$ 409,208	\$ 409,208	\$ 409,206	
TOTAL PHASE 2											\$ 2,283,585



Liberty Utilities (Litchfield Park Water & Sewer) Corp.
 Marbella Ranch Project
 Plant Value

Line No.	NARUC Account No.	Description	Allowed Deprec. Rate	Year 1				Net Plant
				Plant Additions	Depreciation	Plant Balance	A/D Balance	
1	351	Organization Cost	0.00%	-	-	-	-	
2	352	Franchise Cost	0.00%	-	-	-	-	
3	353	Land and Land Rights	0.00%	-	-	-	-	
4	354	Structures & Improvements	3.33%	-	-	-	-	
5	355	Power Generating Equipment	5.00%	-	-	-	-	
6	360	Collection Sewers - Force	2.00%	-	-	-	-	
7	361	Collection Sewers - Gravity	2.00%	2,484,272	24,843	2,484,272	2,459,429	
8	362	Special Collecting Structures	2.00%	-	-	-	-	
9	363	Services to Customers	2.00%	82,500	825	82,500	81,675	
10	364	Flow Measuring Devices	10.00%	-	-	-	-	
11	365	Flow Measuring Installations	10.00%	-	-	-	-	
12	366	Reuse Services	2.00%	-	-	-	-	
13	367	Reuse Meters and Meter Installations	8.33%	-	-	-	-	
14	370	Receiving Wells	3.33%	-	-	-	-	
15	371	Pumping Equipment	12.50%	-	-	-	-	
16	374	Reuse Distribution Reservoirs	2.50%	-	-	-	-	
17	375	Reuse Transmission and Dist. Sys.	2.50%	-	-	-	-	
18	380	Treatment and Disposal Equipment	5.00%	-	-	-	-	
19	381	Plant Sewers	5.00%	-	-	-	-	
20	382	Outfall Sewer Lines	3.33%	-	-	-	-	
21	389	Other Plant and Misc. Equipment	6.67%	-	-	-	-	
22	390	Office Furniture & Equipment	6.67%	-	-	-	-	
23	390.1	Computers & Software	20.00%	-	-	-	-	
24	391	Transportation Equipment	20.00%	-	-	-	-	
25	392	Stores Equipment	4.00%	-	-	-	-	
26	393	Tools, Shop & Garage Equipment	5.00%	-	-	-	-	
27	394	Laboratory Equipment	10.00%	-	-	-	-	
28	395	Power Operated Equipment	5.00%	-	-	-	-	
29	396	Communications Equipment	10.00%	-	-	-	-	
30	397	Miscellaneous Equipment	10.00%	-	-	-	-	
31	398	Other Tangible Plant	10.00%	-	-	-	-	
32				-	-	-	-	
33				-	-	-	-	
34				-	-	-	-	
35		TOTAL		2,566,772	25,668	2,566,772	2,541,104	

Liberty Utilities (Litchfield Park Water & Sewer) Corp.
 Marbella Ranch Project
 Plant Value

Line No.	NARUC Account No.	Description	Allowed Deprec. Rate	Year 3				Net Plant
				Plant Additions	Depreciation	Plant Balance	A/D Balance	
1	351	Organization Cost	0.00%	-	-	-	-	
2	352	Franchise Cost	0.00%	-	-	-	-	
3	353	Land and Land Rights	0.00%	-	-	-	-	
4	354	Structures & Improvements	3.33%	15,000	250	15,000	14,750	
5	355	Power Generating Equipment	5.00%	30,000	750	30,000	29,250	
6	360	Collection Sewers - Force	2.00%	-	-	-	-	
7	361	Collection Sewers - Gravity	2.00%	785,419	63,334	3,559,397	3,418,638	
8	362	Special Collecting Structures	2.00%	-	-	-	-	
9	363	Services to Customers	2.00%	173,250	5,033	338,250	329,918	
10	364	Flow Measuring Devices	10.00%	-	-	-	-	
11	365	Flow Measuring Installations	10.00%	-	-	-	-	
12	366	Reuse Services	2.00%	-	-	-	-	
13	367	Reuse Meters and Meter Installations	8.33%	-	-	-	-	
14	370	Receiving Wells	3.33%	200,000	3,330	200,000	196,670	
15	371	Pumping Equipment	12.50%	183,250	11,453	183,250	171,797	
16	374	Reuse Distribution Reservoirs	2.50%	-	-	-	-	
17	375	Reuse Transmission and Dist. Sys.	2.50%	-	-	-	-	
18	380	Treatment and Disposal Equipment	5.00%	-	-	-	-	
19	381	Plant Sewers	5.00%	-	-	-	-	
20	382	Outfall Sewer Lines	3.33%	-	-	-	-	
21	389	Other Plant and Misc. Equipment	6.67%	-	-	-	-	
22	390	Office Furniture & Equipment	6.67%	-	-	-	-	
23	390.1	Computers & Software	20.00%	-	-	-	-	
24	391	Transportation Equipment	20.00%	-	-	-	-	
25	392	Stores Equipment	4.00%	-	-	-	-	
26	393	Tools, Shop & Garage Equipment	5.00%	-	-	-	-	
27	394	Laboratory Equipment	10.00%	-	-	-	-	
28	395	Power Operated Equipment	5.00%	-	-	-	-	
29	396	Communications Equipment	10.00%	-	-	-	-	
30	397	Miscellaneous Equipment	10.00%	-	-	-	-	
31	398	Other Tangible Plant	10.00%	-	-	-	-	
32				-	-	-	-	
33				-	-	-	-	
34				-	-	-	-	
35		TOTAL		1,386,919	84,149	4,325,897	4,161,023	

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 Exhibit 7

7 (General Statement of Financial Condition)
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COMPANY NAME

Litchfield Park Service Company (Sewer)

BALANCE SHEET

Acct. No.	ASSETS	2012	2013
CURRENT AND ACCRUED ASSETS			
131	Cash	\$ 723,394	\$ (11,584)
132	Special Deposits	\$ -	\$ 2,083,201
135	Temporary Cash Investments	\$ -	\$ -
141	Customer Accounts Receivable	\$ 1,755,385	\$ 1,538,629
146	Notes/Receivables from Associated Companies	\$ 4,666,537	\$ 6,120,635
151	Plant Material and Supplies	\$ -	\$ -
162	Prepayments	\$ 74,761	\$ 30,500
174	Miscellaneous Current and Accrued Assets	\$ 328,254	\$ 284,962
	TOTAL CURRENT AND ACCRUED ASSETS	\$ 7,548,331	\$ 10,046,344
FIXED ASSETS			
101	Utility Plant in Service	74,571,547	76,282,231
103	Property Held for Future Use		
105	Construction Work in Progress	0	357,041
108	Accumulated Depreciation - Utility Plant	14,441,042	16,405,407
121	Non-Utility Property		
122	Accumulated Depreciation - Non Utility		
	TOTAL FIXED ASSETS	\$ 60,130,505	\$ 60,233,865
	TOTAL ASSETS	\$ 67,678,836	\$ 70,280,209

NOTE: Total Assets on this page should equal Total Liabilities and Capital on the following page.

COMPANY NAME

Litchfield Park Service Company (Sewer)

BALANCE SHEET (CONTINUED)

Acct. No.	LIABILITIES	2012	2013
	CURRENT LIABILITES		
231	Accounts Payable	\$ -	\$ -
232	Notes Payable (Current Portion)	\$ 157,761	\$ 150,400
234	Notes/Accounts Payable to Associated Companies	\$ -	
235	Customer Deposits	\$ 155,440	\$ -
236	Accrued Taxes	\$ 44,211	\$ 34,644
237	Accrued Interest	\$ 80,731	\$ 77,628
241	Miscellaneous Current and Accrued Liabilities	\$ 1,182,382	\$ 44,665
	TOTAL CURRENT LIABILITIES	\$ 1,620,525	\$ 307,337
	LONG-TERM DEBT (Over 12 Months)		
224	Long-Term Notes and Bonds	\$ 5,321,804	\$ 4,453,218
	DEFERRED CREDITS		
252	Advances in Aid of Construction	\$ 12,211,297	\$ 12,110,401
253	Other Deferred Credits	\$ 95,892	
255	Accumulated Deferred Investment Tax Credits	\$ -	\$ -
271	Contributions in Aid of Construction	\$ 32,415,368	\$ 35,077,436
272	Less: Amortization of Contributions	\$ 5,308,346	\$ 5,957,420
281	Accumulated Deferred Income Tax	\$ 694,371	\$ 2,395,960
	TOTAL DEFERRED CREDITS	\$ 40,108,582	\$ 43,626,377
	TOTAL LIABILITIES	\$ 47,050,911	\$ 48,386,932
	CAPITAL ACCOUNTS		
201	Common Stock Issued	\$ 33,626	\$ 33,626
211	Other Paid in Capital	\$ 14,429,804	\$ 13,728,278
215	Retained Earnings	\$ 6,164,495	\$ 8,131,373
218	Proprietary Capital (Sole Props and Partnerships)		
	TOTAL CAPITAL	\$ 20,627,925	\$ 21,893,277
	TOTAL LIABILITIES AND CAPITAL	\$ 67,678,836	\$ 70,280,209

COMPANY NAME

Litchfield Park Service Company (Sewer)

COMPARATIVE STATEMENT OF INCOME AND EXPENSE

	OPERATING REVENUES	2012	2013
521	Flat Rate Revenues	\$ 9,698,079	\$ 8,624,304
522	Measured Revenues	\$ -	\$ 861,147
536	Other Wastewater Revenues	\$ 463,236	\$ 374,767
	TOTAL REVENUES	\$ 10,161,315	\$ 9,860,219
	OPERATING EXPENSES		
701	Salaries and Wages	\$ 1,077,158	\$ 1,201,594
710	Purchased Wastewater Treatment	\$ 26,656	\$ 39,395
711	Sludge Removal Expense	\$ 230,913	\$ 246,971
715	Purchased Power	\$ 606,563	\$ 628,493
716	Fuel for Power Production	\$ -	\$ -
718	Chemicals	\$ 363,900	\$ 295,100
720	Materials and Supplies	\$ 86,994	\$ 119,214
731	Contractual Services - Professional	\$ 25,746	\$ (40,983)
735	Contractual Services - Testing	\$ 57,735	\$ 36,144
736	Contractual Services - Other	\$ 2,835,298	\$ 2,439,628
740	Rents	\$ 43,083	\$ 2,472
750	Transportation Expense	\$ 26,465	\$ 18,856
755	Insurance Expense	\$ 69,329	\$ 84,335
765	Regulatory Commission Expense	\$ 14,189	\$ -
775	Miscellaneous Expense	\$ 139,720	\$ 122,361
403	Depreciation Expense	\$ 1,251,940	\$ 1,648,570
408	Taxes Other Than Income	\$ -	\$ -
408.11	Property Taxes	\$ 627,380	\$ 752,647
409	Income Taxes	\$ -	\$ -
	TOTAL OPERATING EXPENSES	\$ 7,483,069	\$ 7,594,797
	OTHER INCOME/EXPENSE		
419	Interest and Dividend Income	\$ 99,563	\$ 24,550
420	AFUDC Income		15,996
426	Miscellaneous Non-Utility Expenses		
427	Interest Expense	349,841	339,090
	TOTAL OTHER INCOME/EXP	\$ (250,278)	\$ (298,544)
	NET INCOME/(LOSS)	\$ 2,427,968	\$ 1,966,878

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 **Exhibit 8**

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8 **(Applicant's Schedule of Rates and Charges)**
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Applies to all WASTEWATER service areas
PART THREE
STATEMENT OF CHARGES FOR WASTEWATER SERVICE

I. RATES

Originally in Decision No. 72026, dated December 10, 2010, and again in Decision No. 72682, dated November 17, 2011, the Commission authorized the following rates and charges to become effective December 1, 2011:

A. Monthly Usage Charge – 100 Percent Phase In (Phase 3)

<u>Meter Size</u> Inches	<u>Minimum Charge</u> Per Month
Residential – Per Unit / Per Month	\$38.99
Multiple Unit Service – Per Unit / Month	36.19
Small Commercial ¹	65.93
Regular Domestic ²	36.91
Restaurants, Motels, Grocery, DC	36.91
Wigwam Resort / Room	36.91
Wigwam Resort / Main	1,433.30
Elementary School	974.64
Middle & High School	1,146.64
Community College	1,777.29
Effluent Sales ³	Market

¹ Small Commercial is a wastewater commercial customer that averages a maximum of 10,000 gallons of water usage per month.

² Regular Domestic is a wastewater commercial customer that averages a minimum of 10,000 gallons of water usage per month.

³ Market Rate – maximum effluent rate shall not exceed \$430 per acre foot based on a potable water rate of \$1.32 per thousand gallons and shall not be less than \$0.17 per thousand gallons.

ISSUED BY:

Greg Sorensen, Director of Operations
 Litchfield Park Service Company
 12725 W. Indian School Road, Suite D-101
 Avondale, AZ 85392

Applies to all WASTEWATER service areas
PART THREE
STATEMENT OF CHARGES FOR WASTEWATER SERVICE

B. Commodity Charge – 100 Percent Phase In (Phase 3)

(per 1,000 gallons of water)	
Regular Domestic	\$3.22
Restaurants, Motels, Grocery, DC	4.30

Issued: November 30, 2011

ISSUED BY:

Effective: December 1, 2011

Greg Sorensen, Director of Operations
Litchfield Park Service Company
12725 W. Indian School Road, Suite D-101
Avondale, AZ 85392

Applies to all WASTEWATER service areas
PART THREE
STATEMENT OF CHARGES FOR WASTEWATER SERVICE

C. Service Charges

<u>Service</u>	<u>Charge</u>
Establishment (a)	\$20.00
Establishment (After Hours) (a)	40.00
Re-establishment of Service (a)	(b)
Reconnection (Regular Hours) (a)	\$50.00
Reconnection (After Hours) (a)	65.00
NSF Check	25.00
Deferred Payment, Per Month	1.50%
Late Charge	(c)
Service Calls, Per Hour / After Hours (d)	\$40.00
Deposit Requirement	(e)
Deposit Interest	3.50%
Service Lateral Connection Charge – All Sizes	(f)
Main Extension Tariff	(g)

- (a) Service charges for customers taking both water and sewer services are not duplicative.
 (b) Minimum charge times number of months disconnected.
 (c) Greater of \$5.00 or 1.50% of unpaid balance.
 (d) No charge for service calls during normal working hours.
 (e) Per Rule R14-2-603(B):
Residential – two times the average bill;
Non-Residential – two and one-half times the average bill.
 (f) At cost. Customer/Developer shall install or cause to be installed all Service Laterals as a non-refundable contribution-in-aid of construction.
 (g) All Main Extensions shall be completed at cost and shall be treated as non-refundable contribution-in-aid of construction.

Issued: November 30, 2011

Effective: December 1, 2011

ISSUED BY:

Greg Sorensen, Director of Operations
 Litchfield Park Service Company
 12725 W. Indian School Road, Suite D-101
 Avondale, AZ 85392

Applies to all WASTEWATER service areas
PART THREE
STATEMENT OF CHARGES FOR WASTEWATER SERVICE

II. **TAXES AND ASSESSMENTS**

In addition to all other rates and charges authorized herein, the Company shall collect from its customers all applicable sales, transaction, privilege, regulatory or other taxes and assessments as may apply now or in the future, per Rule R14-2-608(D)(5).

Issued: November 30, 2011

Effective: December 1, 2011

ISSUED BY:

Greg Sorensen, Director of Operations
Litchfield Park Service Company
12725 W. Indian School Road, Suite D-101
Avondale, AZ 85392

Applies to all WASTEWATER service areas
PART THREE
STATEMENT OF CHARGES FOR WASTEWATER SERVICE

III. PERMITTED COSTS

- A. Costs shall be verified by invoice.
- B. For services that are provided by the Company at cost, costs shall include labor, materials, other charges incurred, and overhead. However, prior to any such service being provided, the estimated cost of such service will be provided by the Company to the customer. After review of the cost estimate, the customer will pay the amount of the estimated cost to the Company.
- C. In the event that the actual cost is less than the estimated cost, the Company will refund the excess to the customer within 30 days after completion of the provision of the service or after Company's receipt of invoices, timesheets or other related documents, whichever is later.
- D. In the event the actual cost is more than the estimated cost, the Company will bill the customer for the amount due within 30 days after completion of the invoices, timesheets or other related documents, whichever is later. The amount so billed will be due and payable 30 days after the invoice date.
- E. At the customer's request, the Company shall make available to the customer all invoices, timesheets or related documents that support the cost for providing such service.
- F. Permitted costs shall include any Federal, State or local taxes that are or may be payable by the Company as a result of any tariff or contract for wastewater facilities under which the Customer advances or contributes funds or facilities to the Company.

ISSUED BY:

Greg Sorensen, Director of Operations
Litchfield Park Service Company
12725 W. Indian School Road, Suite D-101
Avondale, AZ 85392

Applies to all WASTEWATER service areas

PART FOUR

STATEMENT OF TERMS AND CONDITIONS FOR WASTEWATER SERVICE

I. CUSTOMER DISCHARGE TO SYSTEM

A. Service Subject to Regulation

The Company provides wastewater service using treatment and collection facilities that are regulated by numerous county, state and federal Statutes and Regulations. Those Regulations include limitations as to domestic strength wastewater and the type of wastewater that may be discharged into the system by any person directly or indirectly connected to the plant.

B. Waste Limitations

The Company has established the permissible limits of concentration as domestic strength wastewater and will limit concentration for various specific substances, materials, waters, or wastes that can be accepted in the sewer system, and to specify those substances, materials, waters, or wastes that are prohibited from entering the sewer system. Each permissible limit so established shall be placed on file in the business office of the Company, with a copy filed with the Commission. No person shall discharge, or cause to be discharged, any new sources of inflow including, but not limited to, storm water, surface water, groundwater, roof runoffs, subsurface drainage, cooling water, or polluted industrial process waters into the sanitary sewer. The Company will require an affidavit from all commercial and industrial customers, and their professional engineer, stating that the wastewater discharged to the system does not exceed domestic strength.

C. Inspection and Right of Entry

Every facility that is involved directly or indirectly with the discharge of wastewater to the Treatment Plant may be inspected by the Company as it deems necessary. These facilities shall include but not be limited to sewer; sewage pumping plants; all processes; devices and connection sewer; and all similar sewerage facilities. Inspections may be made to determine that such facilities are maintained and operated properly and are adequate to meet the provisions of these rules. Inspections may include the collection of samples. Authorized personnel of the Company shall be provided immediate access to all of the above facilities or to other facilities directly or indirectly connected to the Treatment Plant at all reasonable times including those occasioned by emergency conditions. Any permanent or temporary obstruction to easy access to the user's facility to be inspected shall promptly be removed by the facility user or owner at

ISSUED BY:

Greg Sorensen, Director of Operations
Litchfield Park Service Company
12725 W. Indian School Road, Suite D-101
Avondale, AZ 85392

Applies to all WASTEWATER service areas

PART FOUR

STATEMENT OF TERMS AND CONDITIONS FOR WASTEWATER SERVICE

the written or verbal request of the Company and shall not be replaced. No person shall interfere with, delay, resist or refuse entrance to an authorized Company representative attempting to inspect any facility involved directly or indirectly with a discharge of wastewater to the Treatment Plant. Adequate identification shall be provided by the Company for all inspectors and other authorized personnel and these persons shall identify themselves when entering any property for inspection purposes or when inspecting the work of any contractor.

All transient motor homes, travel trailers and other units containing holding tanks must arrive at the Company's service area in an empty condition. Inspection will be required of said units prior to their being allowed to hookup to the wastewater system.

D. Termination of Water Service for Violation of Wastewater Rules and Regulations

The Company is authorized to discontinue water service to any person connected to both its water and sewer systems who violates the Company's wastewater terms and conditions as set forth in this PART FOUR or in any way creates a public health hazard or the likelihood of such a public health hazard. This termination authority does not apply to non-payment for water or wastewater services.

Applies to all WASTEWATER service areas

PART FOUR

STATEMENT OF TERMS AND CONDITIONS FOR WASTEWATER SERVICE

II. RULES AND REGULATIONS

The Company has adopted the Rules and Regulations established by the Commission as the basis for its operating procedures. A.A.C. R14-2-601 through A.A.C. R14-2-609 will be controlling of Company procedures, unless specifically approved tariffs or Commission Order(s) provide otherwise.

Issued: November 30, 2011

ISSUED BY:

Effective: December 1, 2011

Greg Sorensen, Director of Operations
Litchfield Park Service Company
12725 W. Indian School Road, Suite D-101
Avondale, AZ 85392

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 Exhibit 9

7 (Estimated Annual Operating Revenue and Expenses – First Five Years)

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Liberty Utilities (Litchfield Park Water & Sewer) Corp.
Marbella Ranch Project
Projected Statements of Income

Exhibit 9

Line No.		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
1	Metered Water Revenue /a					
2	Residential	9,684	67,788	164,628	261,468	358,308
3	Commercial	-	-	-	-	-
4	Industrial	-	-	-	-	819
5	Unmetered Water Revenue					
6	Other Water Revenues	800	4,000	4,000	4,000	4,040
7	Total Estimated Revenues	10,484	71,788	168,628	265,468	363,167
8						
9	Purchased Power/1	658	4,607	11,188	17,769	24,383
10	Chemicals & Sludge Removal/1	623	4,360	10,588	16,817	23,076
11	Repairs & Maint/2	126	880	2,136	3,393	4,656
12	Insurance/2	13	93	225	358	491
13	Office, Billing, Postage, Ops. /2	104	728	1,768	2,807	3,852
14	Total Variable Costs	1,524	10,667	25,905	41,144	56,458
15						
16	Depreciation /3	25,668	55,058	84,149	117,333	129,239
17	CIAC Amort /4	(2,700)	(12,645)	(23,635)	(40,318)	(47,441)
18	Property Taxes /5	133	981	3,067	6,256	9,936
19	Income Taxes /6	(5,009)	6,279	28,033	49,964	76,148
20	Total Other Expense	18,092	49,673	91,614	133,234	167,882
21						
22	Total Operating Expenses	19,616	60,340	117,520	174,378	224,340
23						
24	Operating Income (Expense)	(9,132)	11,448	51,108	91,090	138,827
25						
26	/a - Based on customer growth and flat rate revenue					
27	/1 - Based on gallons treated					
28	/2 - Based on number of customers					
29	/3 - Based on plant estimate & authorized depreciation rates					
30	/4 - Based on customer growth at current HUF					
31	/5 - ADOR property tax calculation					
32	/6 - Based on composite rate last rate case					
33						

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 **Exhibit 10**

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8 **(Written Request for Service)**
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March 20, 2014

Mr. Greg Sorenson
Liberty Utilities (Litchfield Park Water & Sewer) Corp.
12725 W Indian School Rd., Suite D101
Avondale, AZ 85392

Re: Request for Water and Sewer Service

Dear Mr. Sorenson:

El Paso Natural Gas Company, L.L.C. ("El Paso") is the current owner of land located in Section 2, Township 2 North, Range 1 West consisting of the following tax parcel numbers:

501-53-006A, 501-53-007A, 501-53-008B, 501-53-009B, 501-53-010C, 501-53-0012A,
501-53-013A, 51-53-014A, 501-53-015 and 501-53-016A

El Paso is under contract to sell the property to TRS 8, LLC ("TRS"). TRS is planning to develop the property to include up to 1,260 residential homes and commercial and industrial property.

El Paso and TRS hereby request that Liberty Utilities (Litchfield Park Water & Sewer) Corp. provide water and sewer services to the indicated tax parcels and include the property in the Company's planned extension of its Certificate of Convenience and Necessity for water and sewer services.

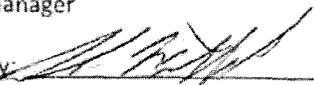
El Paso Natural Gas Company, L.L.C.

TRS 8, LLC

By: Kinder Morgan Operating LP A
Its: Manager

By: Taproot Consulting LLC
Its: Manager

By: 
Its: 

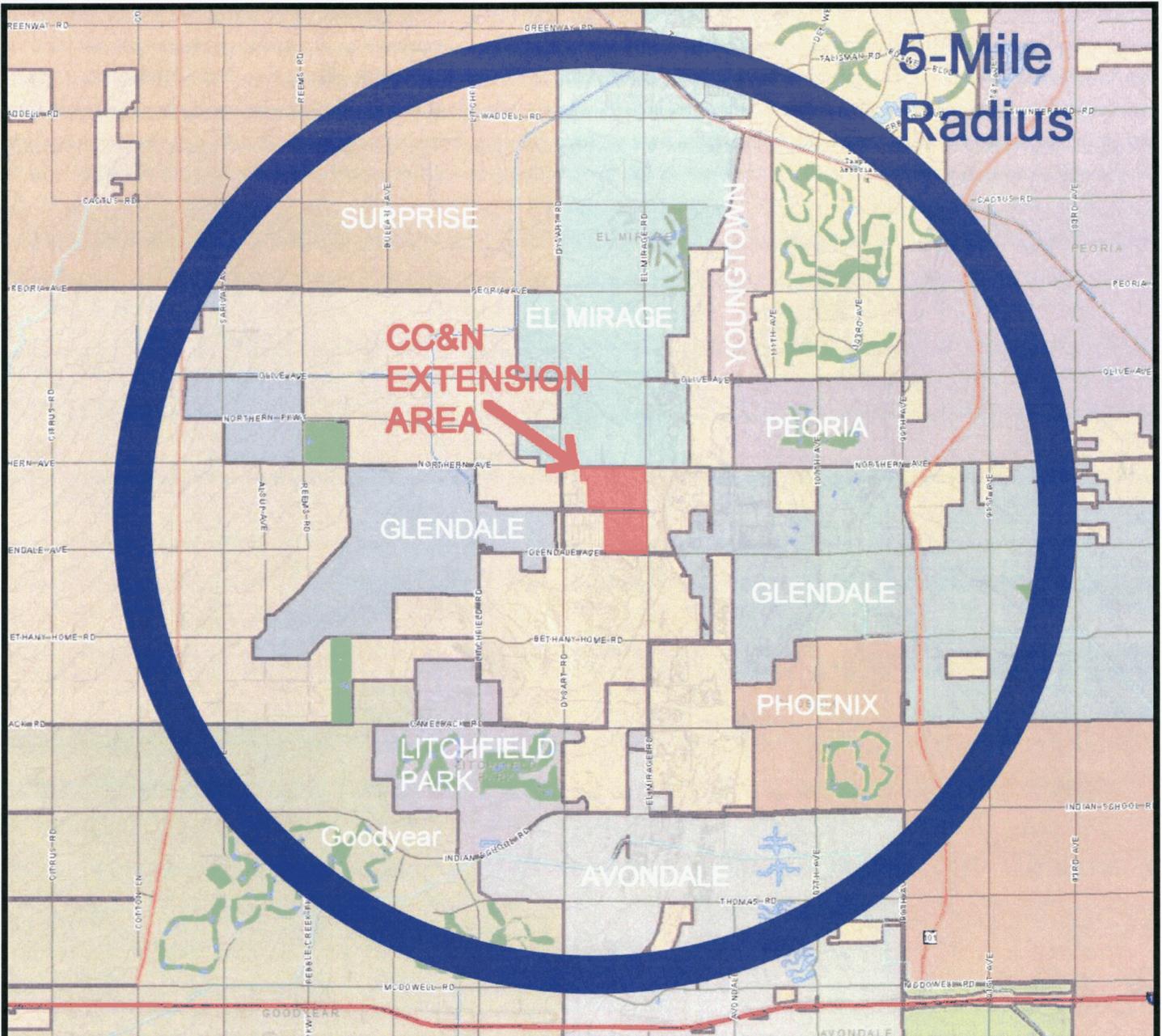
By: 
John Wittrock
Its: Manager

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 Exhibit 11

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9 (Maps of Existing Service Area and Requested Area)

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The City of Glendale is the closest municipality with portions of the CC&N Extension Area being part of the City of Glendale strip annex along both Glendale Ave. and Northern Ave. However, with the exception of the strip annex within the road right-of-way, the CC&N Extension area is within unincorporated Maricopa County.

Also within five miles is the City of Goodyear, City of Avondale, the City of Litchfield Park, the City of Phoenix, the City of Peoria, the Town of El Mirage, the Town of Youngtown and the City of Surprise.

CC&N Extension and Nearby Municipalities

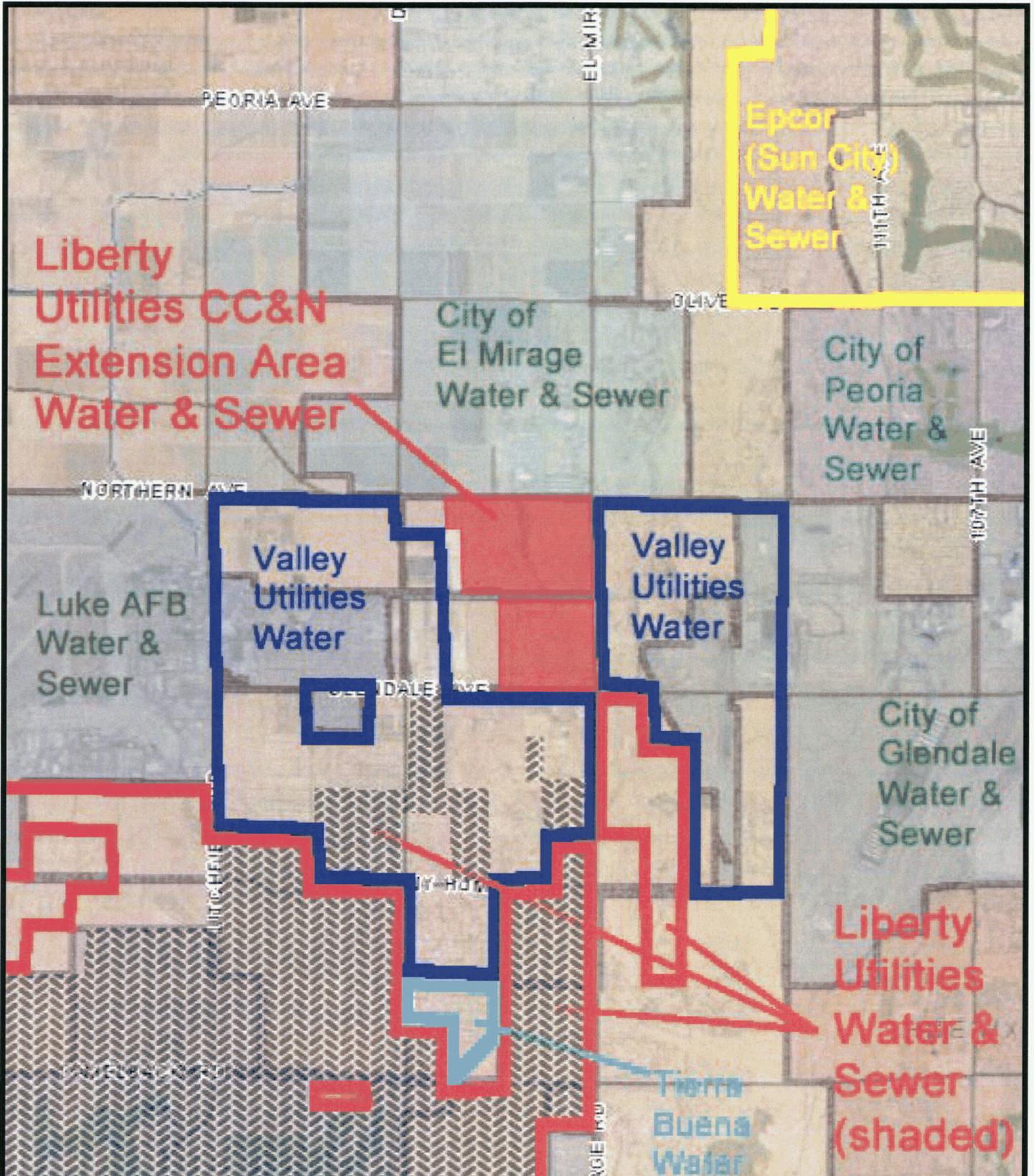
Map:

11-1



Liberty Utilities (Litchfield Park Water & Sewer) Corp.

DATE:
4-8-14



CC&N Extension and Nearby Service Areas

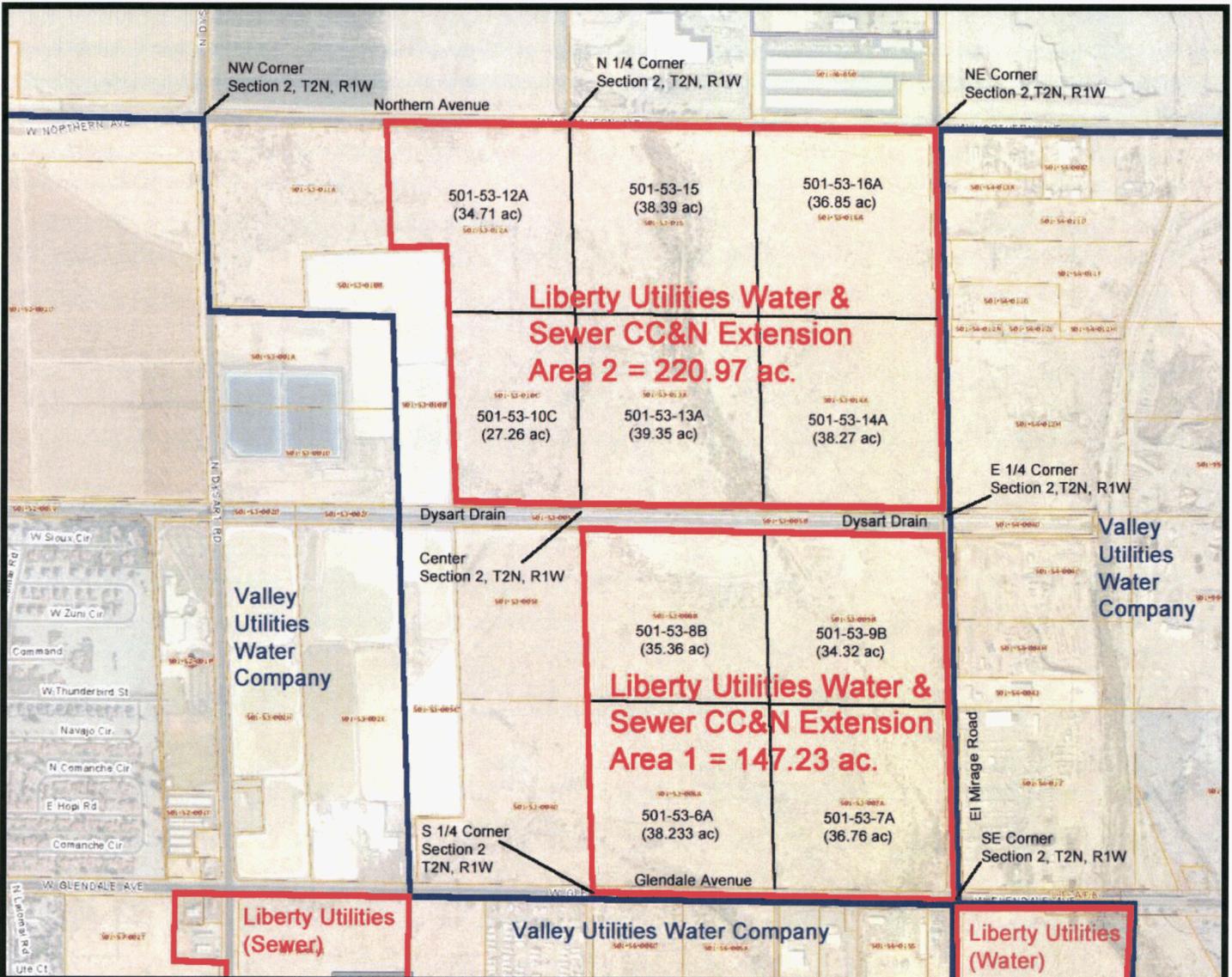
Map:

11-2



Liberty Utilities (Litchfield Park Water & Sewer) Corp.

DATE:
4-8-14



CC&N Extension Area 1 consists of four parcels and CC&N Extension Area 2 consists of six parcels. The total Extension Area is 368.20 acres. All parcels are currently owned by El Paso Natural Gas Company, L.L.C. and are under contract to TRS 8, LLC the developer of the property.

El Paso Natural Gas Company, L.L.C. and TRS 8, LLC have jointly requested both water and sewer service from Liberty Utilities (Litchfield Park Water & Sewer) Corp. by letter dated March 20, 2014. There are no parcels within the Extension Area that have not requested service.

There are no existing water or sewer service connections within the CC&N Extension Area

CC&N Extension Areas and Individual Parcels

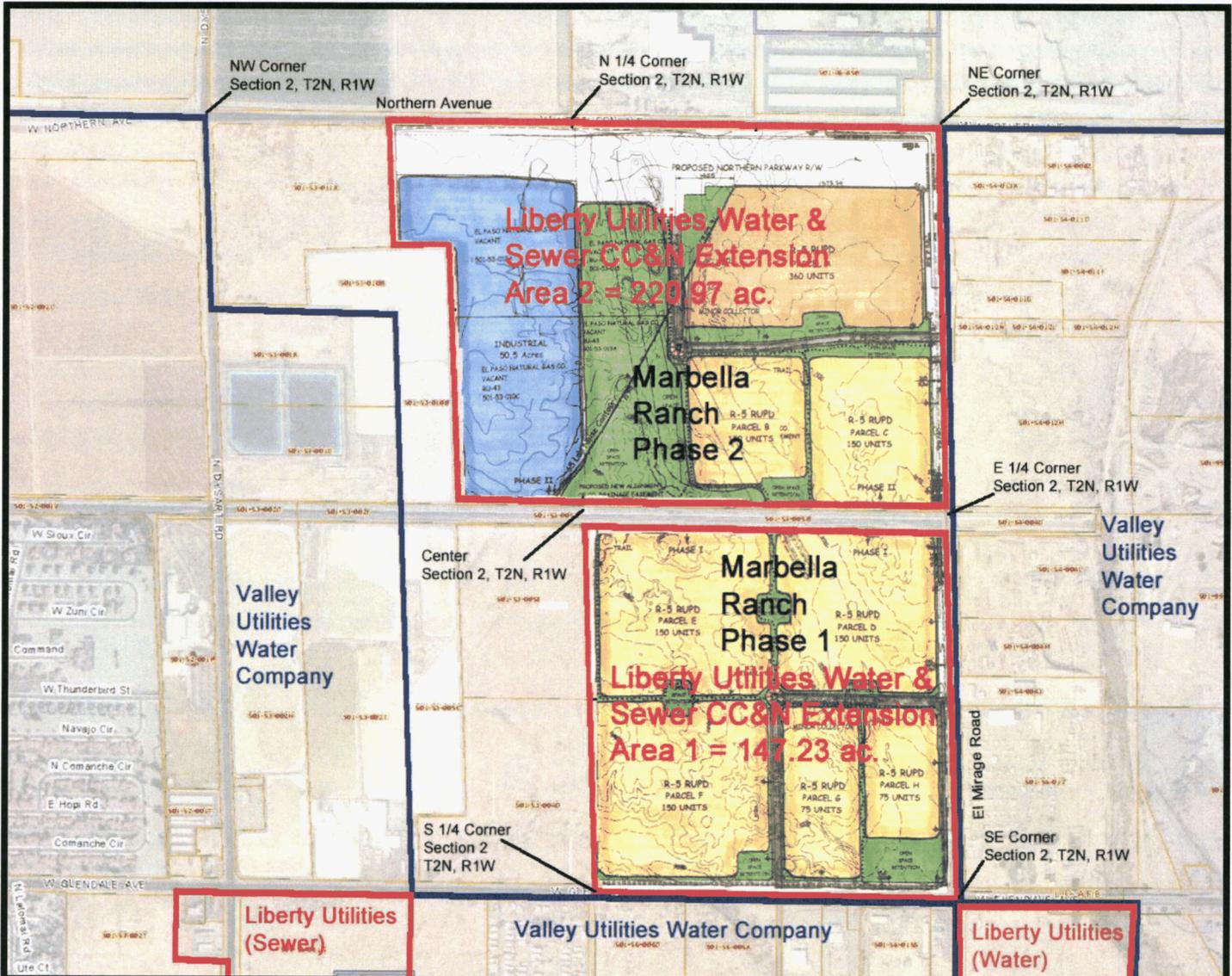
Map:

11-3



Liberty Utilities (Litchfield Park Water & Sewer) Corp.

DATE:
4-8-14



TRS 8, LLC is planning to develop an approximately 350 acre mixed use development known as Marbella Ranch in the CC&N Extension Area. Marbella Ranch Phase 1 consists of 600 housing units. Marbella Ranch Phase 2 consists of 660 housing units. Phase 2 also includes 50.5 acres of industrial development.

TRS 8, LLC has requested rezoning for a Multiple-Family Residential (R-5) Residential Unit Plan of Development (“RUPD”) zoning district on the Property outside of the AICUZ lines. R-5 RUPD allows for single family detached and attached residential subdivisions with a variety of lot widths, as well as the potential for multi-family residential.

CC&N Extension Area and Proposed Marbella Ranch

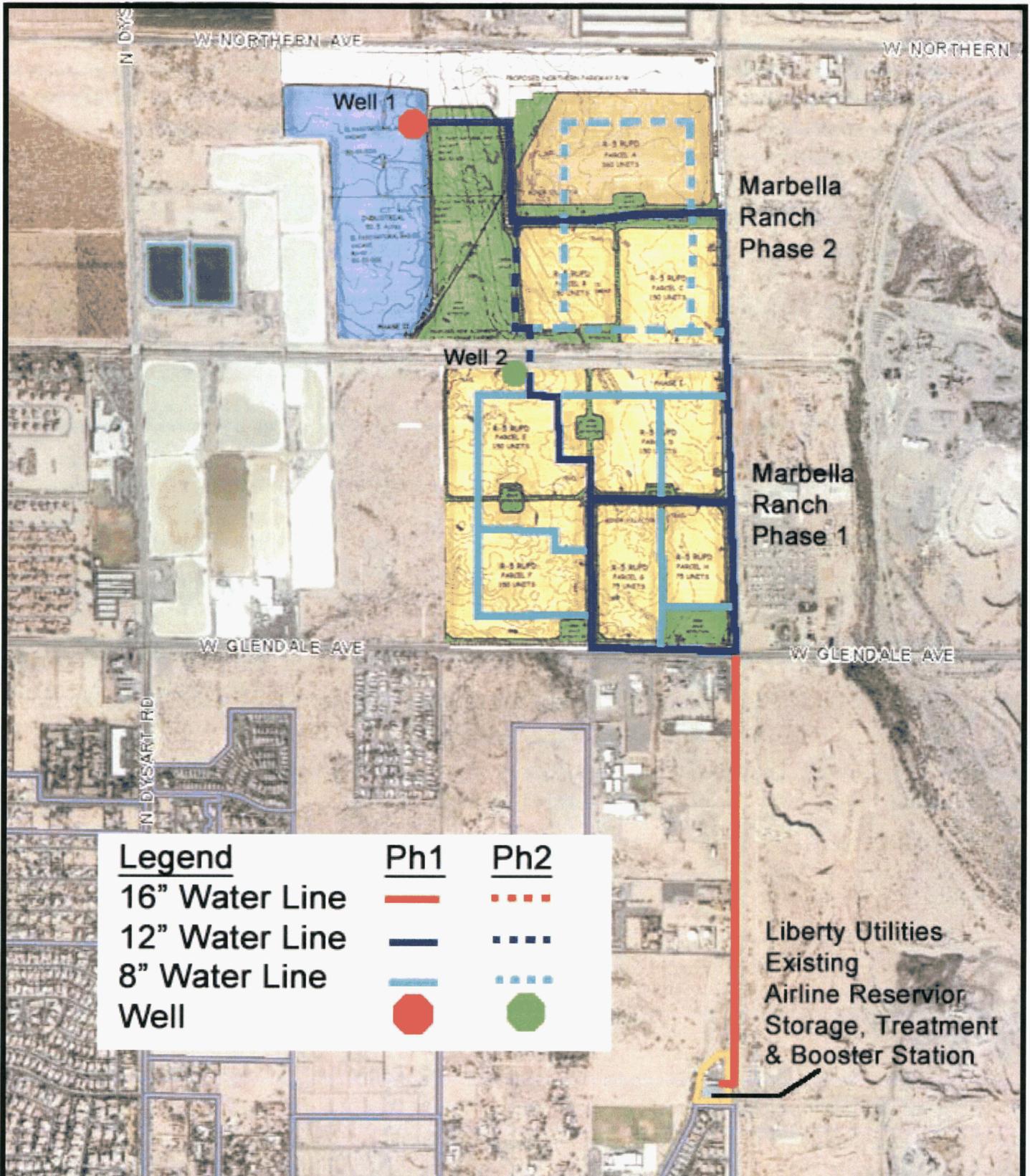
Map:

11-4



**Liberty Utilities (Litchfield Park
Water & Sewer) Corp.**

DATE:
4-8-14



Proposed Water System and Principal Components

Map:

11-5



Liberty Utilities (Litchfield Park Water & Sewer) Corp.

DATE:
4-11-14

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 **Exhibit 12**

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8 **(Notice to Municipalities within 5 miles)**
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[Liberty Utilities Letterhead]

May __, 2014

Notice Required Pursuant to R14-2-602.B.4
Request for Certificate of Convenience and Necessity Extension
Filed by Liberty Utilities (Litchfield Park Water & Sewer) Corp.

Pursuant to A.A.C. R14-2-602.B.4, Liberty Utilities (Litchfield Park Water & Sewer) Corp. ("Liberty") is providing this notice that Liberty has made application to the Arizona Corporation Commission ("ACC") to extend its Certificate of Convenience and Necessity to provide wastewater service to properties approximately 1/8 of a mile north of its existing Certificate of Convenience and Necessity. The requested extension area is within five miles of your municipality's corporate limits. The specific notice requirements are as follows:

Applicant Name, Mailing Address and Telephone Number

Liberty Utilities (Litchfield Park Water & Sewer) Corp.
12725 W. Indian School Road, Suite D-101
Avondale, AZ 85392
623-935-9367

Date Application was Filed

TBD

Type of Service to be Provided

Wastewater Service

A Description of Requested Service Area

See Exhibit 4 and Map – 11-1 from the Application to the ACC, attached.

Commission Docket Number

W-01427A-14-TBD

Instructions on How to Obtain a Copy of Application

The application is available for inspection during regular business hours at the offices of the Commission in Phoenix at 1200 West Washington Street, and at Liberty Utilities, 12725 W. Indian School Road, Suite D-101, Avondale, AZ 85392. In addition, upon request, Liberty will provide a printed copy or electronic copy upon request.

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 **Exhibit 13**

7 **(Estimated Number of Customers – First Five Years)**

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Liberty Utilities (Litchfield Park Water & Sewer) Corp.
Marbella Ranch Project
Customer Projections

Exhibit 13

Line

No.

		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
1	Customer Additions:					
2	Residential	40	200	200	200	200
3	Commercial	0	0	0	0	0
4	Industrial	0	0	0	0	2
5						
6	Cumulative Customers:					
7	Residential	40	240	440	640	840
8	Commercial	0	0	0	0	0
9	Industrial	0	0	0	0	2
10						

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 **Exhibit 14**

7 **(ADEQ Aquifer Protection Permit)**

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**STATE OF ARIZONA
AQUIFER PROTECTION PERMIT NO. P-100310
PLACE ID 815, LTF 53068**

1.0 AUTHORIZATION

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2 and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2, A.A.C. Title 18, Chapter 11, Article 4 and amendments thereto, and the conditions set forth in this permit, Litchfield Park Service Company is hereby authorized to operate Palm Valley Water Reclamation Facility, located in Goodyear, Arizona, in Maricopa County, over groundwater of the Phoenix Active Management Area, in Township 2 N, Range 1 W, Section 33, SE¼, SW¼, SW¼, of the Gila and Salt River Baseline and Meridian.

This permit becomes effective on the date of the Water Quality Division Director's signature and shall be valid for the life of the facility (operational, closure, and post-closure periods) unless suspended or revoked pursuant to A.A.C. R18-9-A213. The permittee shall construct, operate and maintain the permitted facilities:

1. Following all the conditions of this permit including the design and operational information documented or referenced below, and
2. Such that Aquifer Water Quality Standards (AWQS) are not violated at the applicable point(s) of compliance (POC) set forth below or if an AWQS for a pollutant has been exceeded in an aquifer at the time of permit issuance, that no additional degradation of the aquifer relative to that pollutant and as determined at the applicable POC occurs as a result of the discharge from the facility.

1.1 PERMITTEE INFORMATION

Facility Name: Palm Valley Water Reclamation Facility
Facility Address: 14222 West McDowell Road
Goodyear, Arizona 85338
County: Maricopa

Permittee: Litchfield Park Service Company
Permittee Address: 12725 W Indian School Rd, Suite D101
Avondale, AZ 85392

Facility Contact: Matthew Garlick
Emergency Phone No.: (623) 935-9367

Latitude/Longitude: 33° 27' 55" N / 112° 21' 55" W
Legal Description: Township 2 N, Range 1 W, Section 33, SE¼, SW¼, SW¼ of the Gila and Salt River Baseline and Meridian

1.2 AUTHORIZING SIGNATURE



Michael A. Fulton, Director
Water Quality Division
Arizona Department of Environmental Quality

Signed this 13th day of April, 2012

2.0 SPECIFIC CONDITIONS [A.R.S. §§ 49-203(4), 49-241(A)]**2.1 Facility / Site Description [A.R.S. § 49-243(K)(8)]**

Litchfield Park Service Company (LPSCO) is authorized to operate Palm Valley Water Reclamation Facility (WRF), 5.1 million gallons per day (mgd) facility. The treatment process consists of two (2) bar screens, a vortex grit removal unit, an influent pump station, an influent equalization basin, three (3) sequential batch reactor (SBR) basins, a surge tank, four (4) cloth media disk filters, three (3) ultraviolet (UV) disinfection units, three (3) sludge holding tanks, two (2) centrifuges and two (2) rotary drum thickeners. The WRF is designed and constructed according to plans approved by ADEQ.

Effluent shall be reused for any allowable use under a valid reclaimed water permit (A.A.C. R18-9, Article 7), discharged to the Roosevelt Irrigation District (RID) canal under a valid AZPDES permit, or used for on-site process water applications (such as equipment cleaning). Discharges to the RID canal are exempt from APP requirements pursuant to A.R.S. § 49-250(B)(6) and (16). The Palm Valley WRF reclaimed water distribution system may also be connected to the reclaimed water distribution system for the City of Goodyear 157th Avenue WRF (APP No. P-101324), after the APP for the City of Goodyear 157th Avenue WRF has been amended to allow the connection (as per Section 3.0, Compliance Schedule). Once the reclaimed water distribution systems for the two facilities have been connected, reclaimed water from each of the facilities may be delivered to either facility's reclaimed water customers. Sludge shall be dewatered onsite by centrifuges and/or rotary drum thickeners. The dewatered sludge, including screenings, grit, and scum, shall be hauled off-site for management and disposal in accordance with state and federal regulations.

4.1 mgd Facility

The existing 4.1 mgd WRF includes two (2) bar screens, three (3) SBR basins, three (3) cloth media disc filters, and two (2) UV disinfection units. Discharge monitoring for this stage of operation shall be conducted as per Section 4.2, Table IA-1. Upon completion of construction of the 5.1 mgd expansion, monitoring under Table IA-1 shall be discontinued as per Section 3.0, Compliance Schedule.

5.1 mgd Expansion

The 5.1 mgd WRF shall include two (2) bar screens, three (3) SBR basins, four (4) cloth media disc filters, and three (3) UV disinfection units. In addition, two (2) of the three (3) existing SBR basins shall be retrofitted with new floating decanters and jet aeration systems, in order to expand the capacity of the facility without constructing additional SBR basins. Discharge monitoring for this stage of operation shall be conducted as per Section 4.2, Table IA-2.

Amendment Description

The purpose of this amendment is to increase the capacity of the WRF from 4.1 mgd to 5.1 mgd by adding a disc filter unit and a UV disinfection unit to the existing plant, to retrofit two (2) of the three (3) existing SBRs with new equipment to expand the capacity of the plant, and to allow connection between the Palm Valley WRF reclaimed water distribution system and the City of Goodyear 157th Avenue WRF reclaimed water distribution system.

The depth to groundwater is approximately 120 feet below land surface, and the direction of groundwater flow is toward the west-northwest.

All industrial hookups and other non-residential hookups to the treatment system shall be authorized according to the applicable federal, state or local regulations.

The site includes the following permitted discharging facility:

Facility	Latitude	Longitude
Palm Valley Water Reclamation Facility	33° 27' 55" N	112° 21' 55" W

Annual Registration Fee [A.R.S. § 49-242 and A.A.C. R18-14-104]

The Annual Registration Fee for this permit is established by A.R.S. § 49-242 and is payable to ADEQ each year. The design flow is 5.1 mgd.

Financial Capability [A.R.S. § 49-243(N) and A.A.C. R18-9-A203]

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203(C)(5). The permittee shall maintain financial capability throughout the life of the facility. Litchfield Park Service Company submitted a Letter of Credit in the amount of \$500,000.00 to ADEQ as a financial assurance mechanism.

2.2 Best Available Demonstrated Control Technology [A.R.S. § 49-243(B) and A.A.C. R18-9-A202(A)(5)]

The WRF shall be designed, constructed, operated, and maintained to meet the treatment performance criteria for new facilities as specified in A.A.C. R18-9-B204. The facility shall meet the performance requirement for industrial pre-treatment as per A.A.C. R18-9-B204(B)(6)(b).

2.2.1 Engineering Design

This expansion of the WRF was designed and shall be constructed as per the design report stamped, dated, and signed (sealed) on August 17, 2010, by Brian P. McBride, P.E. (Professional Engineer) with McBride Engineering Solutions, Inc., and subsequent sealed submittals that served as additions to the design report.

2.2.2 Site-specific Characteristics

Not applicable.

2.2.3 Pre-operational Requirements

The permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion in a format approved by the Department per Compliance Schedule in Section 3.0. The Certificate shall be submitted to the Groundwater Section, and a copy shall be sent to the Water Quality Compliance Section.

2.2.4 Operational Requirements

1. The permittee shall maintain a copy of the up-to-date operations and maintenance manual at the WRF site at all times; the manual shall be available upon request during inspections by ADEQ personnel.
2. The pollution control structures shall be inspected for the items listed in Section 4.2, Table III - Facility Inspection (Operational Monitoring).
3. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and material(s) used shall be documented on the Self-Monitoring Report Form submitted quarterly to the ADEQ Water Quality Compliance Section.

2.2.5 Reclaimed Water Classification

[A.A.C. R18-9-703(C)(2)(a), A.A.C. R18-11-303 through 307]

The treatment facility is rated as producing reclaimed water meeting the Class A+ Reclaimed Water Quality Standards (A.A.C. R18-11, Article 3); which may be used for any allowable Class A, B, or C use under a valid reclaimed water permit (A.A.C. R18-9, Article 7).

2.2.6 Certified Areawide Water Quality Management Plan Conformance

[A.A.C. R18-9-A201(B)(6)(a)]

Facility operations must conform to the approved Certified Areawide Water Quality Management Plan according to the 208 consistency determination in place at the time of permit issuance.

2.3 Discharge Limitations [A.R.S. §§ 49-201(14), 49-243 and A.A.C. R18-9-A205(B)]

1. The permittee is authorized to operate the WRF with a maximum average monthly flow of 5.1 mgd.
2. The permittee shall notify all users that the materials authorized to be disposed of through the WRF are typical household sewage and pre-treated commercial wastewater and shall not include motor oil, gasoline, paints, varnishes, hazardous wastes, solvents, pesticides, fertilizers or other materials not generally associated with toilet flushing, food preparation, laundry facilities and personal hygiene.
3. The permittee shall operate and maintain all permitted facilities to prevent unauthorized discharges pursuant to A.R.S. § 49-201(12) resulting from failure or bypassing of applicable BACT pollutant control technologies including liner failure, uncontrollable leakage, overtopping (e.g., exceeding the maximum storage capacity, defined as a fluid level exceeding the crest elevation of a permitted impoundment), of basins, lagoons, impoundments or sludge drying beds, berm breaches, accidental spills, or other unauthorized discharges.
4. Specific discharge limitations are listed in Section 4.2, Tables IA-1, IA-2 and IB.

2.4 Points of Compliance (POCs) [A.R.S. § 49-244]

The POCs are established at the following designated locations:

POC	POC Location	Latitude	Longitude
1	Theoretical POC located at the northwest corner of the WRF	33° 27' 56" N	112° 21' 54" W

Groundwater monitoring is not required at the point of compliance, except as a contingency action.

The Director may amend this permit to require the installation of a well and the initiation of groundwater monitoring at the POC, or to designate additional points of compliance, if information on groundwater gradients or groundwater usage indicates the need.

2.5 Monitoring Requirements [A.R.S. § 49-243(K)(1), A.A.C. R18-9-A206(A)]

All monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. All sampling, preservation and holding times shall be in accordance with currently accepted standards of professional practice. Trip blanks, equipment blanks and duplicate samples shall also be obtained, and Chain-of-Custody procedures shall be followed, in accordance with currently accepted standards of professional practice. The permittee shall develop a site-specific Quality Management Plan (QMP) which describes the sample collection and analysis procedures to ensure that the result of work

¹Liner failure in a single-lined impoundment is any condition that would result in leakage exceeding 550 gallons per day per acre.

performed under this permit will satisfy the data quality objectives of the permit. The permittee shall be responsible for the quality and accuracy of all data required by this permit. If a third party collects or analyzes samples on behalf of the permittee, the permittee shall obtain a copy of the third party site-specific QMP. The permittee shall consult with the most recent version of the ADEQ QMP and Title 40, PART 136, of the Environmental Protection Agency's Code of Federal Regulations (CFR) for guidance in this regard. Copies of laboratory analyses and Chain-of-Custody forms shall be maintained at the permitted facility. Upon request, these documents shall be made immediately available for review by ADEQ personnel.

2.5.1 Pre-operational Monitoring

Not applicable at the time of permit issuance.

2.5.2 Routine Discharge Monitoring

The permittee shall monitor the effluent on a routine basis according to Section 4.2, Table IA-1 or IA-2, as applicable. Representative samples of the effluent shall be collected downstream of the UV disinfection channel.

2.5.3 Reclaimed Water Monitoring

On a routine basis, the permittee shall monitor the reclaimed water parameters listed under Section 4.2, Table IB in addition to the routine discharge monitoring parameters listed in Section 4.2, Tables IA-1 and IA-2. Representative samples of the reclaimed water shall be collected downstream of the UV disinfection channel.

2.5.4 Facility / Operational Monitoring

Operational monitoring inspections shall be conducted according to Section 4.2, Table III.

1. If any damage of the pollution control structures is identified during inspection, proper repair procedures shall be performed. All repair procedures and materials used shall be documented on the SMRF submitted quarterly to the ADEQ Water Quality Compliance Section, Data Unit. If none of the conditions occur, the report shall say "no event" for a particular reporting period. If the facility is not in operation, the permittee shall indicate this on the SMRF.
2. The permittee shall submit data required in Section 4.2, Table III regardless of the operating status of the facility unless otherwise approved by the Department or allowed in this permit.

2.5.5 Groundwater Monitoring and Sampling Protocols

Not applicable.

2.5.6 Surface Water Monitoring and Sampling Protocols

Not applicable.

2.5.7 Analytical Methodology

All samples collected for compliance monitoring shall be analyzed using Arizona state-approved methods. If no state-approved method exists, then any appropriate EPA-approved method shall be used. Regardless of the method used, the detection limits must be sufficient to determine compliance with the regulatory limits of the parameters specified in this permit. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of state-certified laboratories in Arizona can be obtained at the address below:

Arizona Department of Health Services
Office of Laboratory Licensure and Certification
250 North 17th Avenue
Phoenix, Arizona 85007
Phone: (602) 364-0720

2.5.8. Installation and Maintenance of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative samples required by the permit can be collected. If new groundwater wells are determined to be necessary, the construction details shall be submitted to the ADEQ Groundwater Section for approval prior to installation, and the permit shall be amended to include any new monitoring points.

2.6 Contingency Plan Requirements

[A.R.S. § 49-243(K)(3), (K)(7) and A.A.C. R18-9-A204 and R18-9-A205]

2.6.1 General Contingency Plan Requirements

At least one copy of this permit and the approved contingency and emergency response plan(s) submitted in the application shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall be aware of and follow the contingency and emergency plans.

Any AL exceedance, violation of a DL, AQL, or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3.

Some contingency actions involve verification sampling. Verification sampling shall consist of the first follow-up sample collected from a location that previously indicated a violation or the exceedance of an AL. Collection and analysis of the verification sample shall use the same protocols and test methods to analyze for the pollutant or pollutants that exceeded an AL or violated an AQL. The permittee is subject to enforcement action for the failure to comply with any contingency actions in this permit. Where verification sampling is specified in this permit, it is the option of the permittee to perform such sampling. If verification sampling is not conducted within the timeframe allotted, ADEQ and the permittee shall presume the initial sampling result to be confirmed as if verification sampling had been conducted. The permittee is responsible for compliance with contingency plans relating to the exceedance of an AL or violation of a DL, AQL, or any other permit condition.

2.6.2 Exceeding of Alert Levels/Performance Levels

2.6.2.1 Exceeding of Performance Levels Set for Operational Conditions

1. If an operational performance level (PL) set in Section 4.2, Table III has been exceeded the permittee shall:
 - a. Notify the ADEQ Water Quality Compliance Section within five days of becoming aware of the exceedance.
 - b. Submit a written report within 30 days after becoming aware of the exceedance. The report shall document all of the following:
 - (1) A description of the exceedance and its cause;
 - (2) the period of the exceedance, including exact date(s) and time(s), if known, and the anticipated time period during which the exceedance is expected to continue;
 - (3) any action taken or planned to mitigate the effects of the exceedance or spill, or to eliminate or prevent recurrence of the exceedance or spill;

- (4) any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS; and
 - (5) any malfunction or failure of pollution control devices or other equipment or process.
2. The facility is no longer on alert status once the operational indicator no longer indicates that a PL is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

2.6.2.2 Exceeding of Alert Levels (ALs) Set for Discharge Monitoring

1. If an AL set in Section 4.2, Tables IA-1 and IA-2 has been exceeded, the permittee shall immediately investigate to determine the cause. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the exceedance;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences; and
 - c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the exceedance, the permittee shall sample individual waste streams composing the wastewater for the parameters in question, if necessary to identify the cause of the exceedance.
2. The permittee shall initiate actions identified in the approved contingency plan and specific contingency measures identified in Section 2.6 to resolve any problems identified by the investigation which may have led to an AL exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6.
3. Within 30 days of an AL exceedance, the permittee shall submit the laboratory results to the ADEQ Water Quality Compliance Section, Data Unit, along with a summary of the findings of the investigation, the cause of the exceedance, and actions taken to resolve the problem.
4. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions or other actions.

2.6.2.2.1 Exceeding Permit Flow Limit

1. If the AL for average monthly flow in Section 4.2, Tables IA-1 or IA-2 has been exceeded, the permittee shall submit an application for an APP amendment to expand the WRF or submit a report detailing the reasons that expansion is not necessary.
2. Acceptance of the report instead of an application for expansion requires ADEQ approval.

2.6.3 Discharge Limit Violation

1. If a DL set in Section 4.2, Tables IA-1, IA-2, or IB has been violated, the permittee shall immediately investigate to determine the cause of the violation. The investigation shall include the following:
 - a. Inspection, testing, and assessment of the current condition of all treatment or pollutant discharge control systems that may have contributed to the violation;
 - b. Review of recent process logs, reports, and other operational control information to identify any unusual occurrences; and

- c. If the investigation procedures indicated in (a) and (b) above fail to reveal the cause of the violation, the permittee shall sample individual waste streams composing the wastewater for the parameters in violation, if necessary to identify the cause of the violation.

The permittee also shall submit a report according to Section 2.7.3, which includes a summary of the findings of the investigation, the cause of the violation, and actions taken to resolve the problem. The permittee shall consider and ADEQ may require corrective action that may include control of the source of discharge, cleanup of affected soil, surface water or groundwater, and mitigation of the impact of pollutants on existing uses of the aquifer. Corrective actions shall either be specifically identified in this permit, included in an ADEQ-approved contingency plan, or separately approved according to Section 2.6.6.

2. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions, or other actions.

2.6.4 Aquifer Quality Limit Violation

Not applicable - Groundwater monitoring is not required under this permit.

2.6.5 Emergency Response and Contingency Requirements for Unauthorized Discharges pursuant to A.R.S. § 49-201(12) and pursuant to A.R.S. § 49-241

2.6.5.1 Duty to Respond

The permittee shall act immediately to correct any condition resulting from a discharge pursuant to A.R.S. § 49-201(12) if that condition could pose an imminent and substantial endangerment to public health or the environment.

2.6.5.2 Discharge of Hazardous Substances or Toxic Pollutants

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of suspected hazardous substances (A.R.S. § 49-201(19)) or toxic pollutants (A.R.S. § 49-243(I)) on the facility site, the permittee shall promptly isolate the area and attempt to identify the discharged material. The permittee shall record information, including name, nature of exposure and follow-up medical treatment, if necessary, on persons who may have been exposed during the incident. The permittee shall notify the ADEQ Water Quality Compliance Section within 24 hours of discovering the discharge of hazardous material which (a) has the potential to cause an AWQS or AQL exceedance, or (b) could pose an endangerment to public health or the environment.

2.6.5.3 Discharge of Non-hazardous Materials

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of non-hazardous materials from the facility, the permittee shall promptly attempt to cease the discharge and isolate the discharged material. Discharged material shall be removed and the site cleaned up as soon as possible. The permittee shall notify the ADEQ Water Quality Compliance Section within 24 hours of discovering the discharge of non-hazardous material which (a) has the potential to cause an AQL exceedance, or (b) could pose an endangerment to public health or the environment.

2.6.5.4 Reporting Requirements

The permittee shall submit a written report for any unauthorized discharges reported under Sections 2.6.5.2 and 2.6.5.3 to the ADEQ Water Quality Compliance Section within 30 days of the discharge or as required by subsequent ADEQ action. The report shall summarize the event, including any human exposure, and facility response activities and include all information specified in Section 2.7.3. If a notice is issued by ADEQ subsequent to the discharge notification, any additional information requested in the notice shall also be submitted within the time frame

specified in the notice. Upon review of the submitted report, ADEQ may require additional monitoring or corrective actions.

2.6.6 Corrective Actions

Specific contingency measures identified in Section 2.6 have already been approved by ADEQ and do not require written approval to implement.

With the exception of emergency response actions taken under Section 2.6.5, the permittee shall obtain written approval from the Groundwater Section prior to implementing a corrective action to accomplish any of the following goals in response to exceedance of an AL or violation of an AQL, DL, or other permit condition:

1. Control of the source of an unauthorized discharge;
2. Soil cleanup;
3. Cleanup of affected surface waters;
4. Cleanup of affected parts of the aquifer;
5. Mitigation to limit the impact of pollutants on existing uses of the aquifer.

Within 30 days of completion of any corrective action, the operator shall submit to the ADEQ Water Quality Compliance Section a written report describing the causes, impacts, and actions taken to resolve the problem.

2.7 Reporting and Recordkeeping Requirements [A.R.S. § 49-243(K)(2) and A.A.C. R18-9-A206(B) and R18-9-A207]

2.7.1 Self-monitoring Report Form

1. The permittee shall complete the SMRFs provided by ADEQ, and submit them to the Water Quality Compliance Section, Data Unit.
2. The permittee shall complete the SMRF to the extent that the information reported may be entered on the form. If no information is required during a reporting period, the permittee shall enter "not required" on the SMRF and submit the report to ADEQ. The permittee shall use the format devised by ADEQ.
3. The tables contained in Section 4.0 list the parameters to be monitored and the frequency for reporting results for compliance monitoring. Analytical methods shall be recorded on the SMRFs.
4. In addition to the SMRF, the information contained in A.A.C. R18-9-A206(B)(1) shall be included for exceeding an AL or violation of an AQL, DL, or any other permit condition being reported in the current reporting period.

2.7.2 Operation Inspection / Log Book Recordkeeping

A signed copy of this permit shall be maintained at all times at the location where day-to-day decisions regarding the operation of the facility are made. A log book (paper copies, forms, or electronic data) of the inspections and measurements required by this permit shall be maintained at the location where day-to-day decisions are made regarding the operation of the facility. The log book shall be retained for ten years from the date of each inspection, and upon request, the permit and the log book shall be made immediately available for review by ADEQ personnel. The information in the log book shall include, but not be limited to, the following information as applicable:

1. Name of inspector;
2. Date and shift inspection was conducted;
3. Condition of applicable facility components;
4. Any damage or malfunction; and the date and time any repairs were performed;
5. Documentation of sampling date and time; and
6. Any other information required by this permit to be entered in the log book.

Monitoring records for each measurement shall comply with A.A.C. R18-9-A206(B)(2).

2.7.3. Permit Violation and Alert Level Status Reporting

1. The permittee shall notify the Water Quality Compliance Section in writing (by mail or by fax - see Section 2.7.5) within five days (except as provided in Section 2.6.5) of becoming aware of a violation of any permit condition, discharge limitation, or of an AL exceedance.
2. The permittee shall submit a written report to the Water Quality Compliance Section within 30 days of becoming aware of the violation of any permit condition or discharge limitation. The report shall document all of the following:
 - a. Identification and description of the permit condition for which there has been a violation and a description of the cause;
 - b. The period of violation including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;
 - c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;
 - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS;
 - e. Proposed changes to the monitoring which include changes in constituents or increased frequency of monitoring; and
 - f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

2.7.4. Operational, Other or Miscellaneous Reporting

The permittee shall complete the SMRF provided by the Department to reflect facility inspection requirements designated in Section 4.2, Table III and submit to the ADEQ Water Quality Compliance Section, Data Unit quarterly along with other reports required by this permit. Facility inspection reports shall be submitted no less frequently than quarterly, regardless of operational status.

If the treatment facility is classified for reclaimed water under this permit, the permittee shall submit the reclaimed water monitoring results as required in Section 4.2, Table IB and flow volumes to any of the following in accordance with A.A.C. R18-9-703(C)(2)(c):

1. Any reclaimed water agent who has contracted for delivery of reclaimed water from the permittee; and
2. Any end user who has not waived interest in receiving this information.

2.7.5 Reporting Location

All SMRFs shall be submitted to:

Arizona Department of Environmental Quality
Water Quality Compliance Section, Data Unit
Mail Code 5415B-1
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4681

All documents required by this permit to be submitted to the Water Quality Compliance Section shall be directed to the following address:

Arizona Department of Environmental Quality
Water Quality Compliance Section
Mail Code 5415B-1
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4497
Fax (602) 771-4505

All documents required by this permit to be submitted to the Groundwater Section shall be directed to:

Arizona Department of Environmental Quality
Groundwater Section
Mail Code 5415B-3
1110 West Washington Street
Phoenix, Arizona 85007
Phone (602) 771-4428

2.7.6 Reporting Deadline

The following table lists the quarterly report due dates²:

Monitoring conducted during quarter	Quarterly Report due by
January-March	April 30
April-June	July 30
July-September	October 30
October-December	January 30

The following table lists the semi-annual and annual report due dates:

Monitoring conducted	Report due by
Semi-annual: January-June	July 30
Semi-annual: July-December	January 30
Annual: January-December	January 30

2.7.7 Changes to Facility Information in Section 1.0

The Groundwater Section and the Water Quality Compliance Section shall be notified within ten days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person, or Emergency Telephone Number.

2.8 Temporary Cessation [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A209(A)]

The permittee shall give written notice to the Water Quality Compliance Section before ceasing operation of the facility for a period of 60 days or greater. The permittee shall take the following measures upon temporary cessation:

²A post-mark date no later than the due date is considered meeting the due date requirements under this Section.

1. If applicable, direct the wastewater flows from the facility to another state-approved wastewater treatment facility;
2. Correct the problem that caused the temporary cessation of the facility; and
3. Notify the ADEQ Water Quality Compliance Section with a monthly facility status report describing the activities conducted on the treatment facility to correct the problem.

At the time of notification the permittee shall submit for ADEQ approval a plan for maintenance of discharge control systems and for monitoring during the period of temporary cessation. Immediately following ADEQ approval, the permittee shall implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. During the period of temporary cessation, the permittee shall provide written notice to the Water Quality Compliance Section of the operational status of the facility every three years. If the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

2.9 Closure [A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9-A209(B)]

For a facility addressed under this permit, the permittee shall give written notice of closure to the Water Quality Compliance Section of the intent to cease operation without resuming activity for which the facility was designed or operated.

2.9.1 Closure Plan

Within 90 days following notification of closure, the permittee shall submit for approval to the Groundwater Section a closure plan which meets the requirements of A.R.S. § 49-252 and A.A.C. R18-9-A209(B)(3).

If the closure plan achieves clean-closure immediately, ADEQ shall issue a letter of approval to the permittee. If the closure plan contains a schedule for bringing the facility to a clean-closure configuration at a future date, ADEQ may incorporate any part of the schedule as an amendment to this permit.

2.9.2 Closure Completion

Upon completion of closure activities, the permittee shall give written notice to the Groundwater Section indicating that the approved closure plan has been implemented fully and providing supporting documentation to demonstrate that clean-closure has been achieved (soil sample results, verification sampling results, groundwater data, as applicable). If clean-closure has been achieved, ADEQ shall issue a letter of approval to the permittee at that time. If any of the following conditions apply, the permittee shall follow the terms of post-closure stated in this permit:

1. Clean-closure cannot be achieved at the time of closure notification or within one year thereafter under a diligent schedule of closure actions;
2. Further action is necessary to keep the facility in compliance with AWQS at the applicable POC;
3. Continued action is required to verify that the closure design has eliminated discharge to the extent intended;
4. Remediation or mitigation measures are necessary to achieve compliance with Title 49, Ch. 2; and
5. Further action is necessary to meet property use restrictions.

2.10 Post-closure [A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9 A209(C)]

Post-closure requirements shall be established based on a review of facility closure actions and will be subject to review and approval by the Groundwater Section.

In the event clean-closure cannot be achieved pursuant to A.R.S. § 49-252, the permittee shall submit for approval to the Groundwater Section a post-closure plan that addresses post-closure maintenance and monitoring actions at the facility. The post-closure plan shall meet all requirements of A.R.S. § 49-201(30)

and 49-252 and A.A.C. R18-9-A209(C). Upon approval of the post-closure plan, this permit shall be amended or a new permit shall be issued to incorporate all post-closure controls and monitoring activities of the post-closure plan.

2.10.1 Post-closure Plan

A specific post-closure plan may be required upon the review of the closure plan.

2.10.2 Post-closure Completion

Not required at the time of permit issuance.

3.0 COMPLIANCE SCHEDULE [A.R.S. § 49-243(K)(5) and A.A.C. R18-9-A208]

For each compliance schedule item listed below, the permittee shall submit the required information, including a cover letter that lists the compliance schedule items, to the Groundwater Section. A copy of the cover letter must also be submitted to the ADEQ Water Quality Compliance Section.

Description	Due by
The permittee shall submit a signed, dated, and sealed Engineer's Certificate of Completion for the 5.1 mgd expansion in a format approved by the Department that confirms that the facility is constructed according to the Department-approved design report or plans and specifications, as applicable.	Within 90 days after completion of construction of the 5.1 mgd expansion.
The permittee may cease monitoring as per Section 4.2, Table IA-1, begin monitoring as per Section 4.2, Table IA-2, and notify the Water Quality Compliance Section, Data Unit, of the change in monitoring.	Within 30 days after submitting the Engineer's Certificate of Completion for the 5.1 mgd expansion.
The permittee shall notify ADEQ of commencement of discharge from the 5.1 mgd WRF.	Within 15 days after commencement of monitoring under Section 4.2, Table IA-2.
The permittee may apply for a permit amendment to remove Section 4.2, Table IA-1.	After commencement of monitoring under Section 4.2, Table IA-2.
The permittee may connect the Palm Valley WRF reclaimed water distribution system to the City of Goodyear 157 th Avenue WRF reclaimed water distribution system.	After a permit amendment is issued to the City of Goodyear allowing the City of Goodyear 157 th Avenue WRF (APP No. P-101324) to connect its reclaimed water distribution system to the Palm Valley WRF reclaimed water distribution system.

4.0 TABLES OF MONITORING REQUIREMENTS

4.1 PRE-OPERATIONAL MONITORING (OR CONSTRUCTION REQUIREMENTS)

Not applicable.

4.0 TABLES OF MONITORING REQUIREMENTS

4.2 COMPLIANCE (or OPERATIONAL) MONITORING

TABLE IA-1
ROUTINE DISCHARGE MONITORING - 4.1 MGD³

Sampling Point Number	Sampling Point Identification			Latitude	Longitude
1	Immediately downstream of the UV Channel			33° 27' 55" N	112° 21' 56" W
Parameter	AL ⁴	DL ⁵	Unit	Sampling Frequency	Reporting Frequency
Total Flow ⁶ : Daily ⁷	NE ⁸	NE	mgd ⁹	Everyday	Quarterly
Total Flow: Monthly Average ¹⁰	3.9	4.1	mgd	Monthly Calculation	Quarterly
Reuse Flow: Daily	NE	4.1	mgd	Everyday	Quarterly
Reuse Flow: Monthly Average	NE	4.1	mgd	Monthly Calculation	Quarterly
<i>E. coli</i> : Single sample maximum	NE	15.0	CFU or MPN ¹¹	Daily	Quarterly
<i>E. coli</i> : four (4) of seven (7) samples in a week ¹²	NE	Non-detect ¹³	CFU or MPN	Daily	Quarterly
Total Nitrogen ¹⁴ : Five-sample rolling geometric mean	8.0	10.0	mg/l ¹⁵	Monthly ¹⁶	Quarterly

³Monitoring under Table IA-1 is no longer required after the commencement of monitoring under Table IA-2.

⁴AL = Alert Level

⁵DL = Discharge Limit

⁶Total flow is the total of flows to on-site process use, reclaimed water, discharge to the RID canal, and the City of Goodyear 157th Avenue WRF, and flow from the City of Goodyear 157th Avenue WRF.

⁷Flow shall be measured using a continuous recording flow meter which totals the flow daily.

⁸NE = Not Established = Monitoring is required but no limits are specified.

⁹mgd = million gallons per day

¹⁰Monthly average of daily flow values.

¹¹CFU = Colony Forming Units / 100 ml sample. MPN = Most Probable Number / 100 ml sample. For CFU, a value of <1.0 shall be considered to be non-detect. For MPN, a value of <2.2 shall be considered to be non-detect.

¹²Week means a seven-day period starting on Sunday and ending on the following Saturday.

¹³If at least four (4) of seven (7) samples in a week are non-detect, report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) of seven (7) samples in a week have detections of *E. coli*, report "no" in the appropriate space on the SMRF (indicating that the standard has not been met).

¹⁴Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen

¹⁵mg/l = milligrams per liter

¹⁶A five-month geometric mean of the results of the five (5) most recent samples

TABLE IA-1
ROUTINE DISCHARGE MONITORING – 4.1 MGD (continued)

Sampling Point Number	Sampling Point Identification			Latitude	Longitude
2	Flow meter at the connection to the City of Goodyear 157 th Avenue WRF reclaimed water distribution system, located 3,000 feet west of Palm Valley WRF at the intersection of McDowell Road and Bullard Avenue			33° 27' 51.48" N	112° 22' 31.08" W
Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Flow from the Palm Valley WRF reclaimed water distribution system to the City of Goodyear 157 th Avenue WRF reclaimed water distribution system	NE	NE	mgd	Everyday	Quarterly
Flow from the City of Goodyear 157 th Avenue WRF reclaimed water distribution system to the Palm Valley WRF reclaimed water distribution system	NE	NE	mgd	Everyday	Quarterly

TABLE IA-1
 ROUTINE DISCHARGE MONITORING - 4.1 MGD (continued)

Sampling Point Number	Sampling Point Identification			Latitude	Longitude
1	Immediately downstream of the UV Channel			33° 27' 55" N	112° 21' 56" W
Parameter	AD	DL	Units	Sampling Frequency	Reporting Frequency
Metals (total):					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.60	2.00	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	mg/l	Quarterly	Quarterly
Lead	0.04	0.05	mg/l	Quarterly	Quarterly
Mercury	0.0016	0.002	mg/l	Quarterly	Quarterly
Nickel	0.08	0.1	mg/l	Quarterly	Quarterly
Selenium	0.04	0.05	mg/l	Quarterly	Quarterly
Thallium	0.0016	0.002	mg/l	Quarterly	Quarterly

TABLE IA-1
ROUTINE DISCHARGE MONITORING – 4.1 MGD (continued)

Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Volatile and Semi-Volatile Organic Compounds (VOCs and SVOCs):					
Benzene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene	0.48	0.6	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
1,2,4-Trichlorobenzene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
1,1,2-Trichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi-Annually	Semi-Annually

TABLE IA-2
ROUTINE DISCHARGE MONITORING – 5.1 MGD¹⁷

Sampling Point Number	Sampling Point Identification			Latitude	Longitude
1	Immediately downstream of the UV Channel			33° 27' 55" N	112° 21' 56" W
Parameter	AL	DL	Units	Sampling Frequency	Reporting Frequency
Total Flow ²⁰ : Daily ²¹	NE ²²	NE	mgd ²³	Everyday	Quarterly
Total Flow: Monthly Average ²⁴	4.9	5.1	mgd	Monthly Calculation	Quarterly
Reuse Flow: Daily	NE	5.1	mgd	Everyday	Quarterly
Reuse Flow: Monthly Average	NE	5.1	mgd	Monthly Calculation	Quarterly
<i>E. coli</i> : Single sample maximum	NE	15.0	CFU or MPN ²⁵	Daily	Quarterly
<i>E. coli</i> : four (4) of seven (7) samples in a week ²⁵	NE	Non-detect ²⁷	CFU or MPN	Daily	Quarterly
Total Nitrogen ²⁸ : Five-sample rolling geometric mean	8.0	10.0	mg/l ²⁹	Monthly ³⁰	Quarterly

¹⁷Monitoring under Table IA-1 is no longer required upon commencement of monitoring under Table IA-2. The permittee shall notify the Water Quality Compliance Section, Data Unit, of the change in monitoring as per Section 3.0, Compliance Schedule.

¹⁸AL = Alert Level

¹⁹DL = Discharge Limit

²⁰Total flow is the total of flows to on-site process use, reclaimed water, discharge to the RID canal, and the City of Goodyear 157th Avenue WRF, and flow from the City of Goodyear 157th Avenue WRF.

²¹Flow shall be measured using a continuous recording flow meter which totals the flow daily.

²²NE = Not Established = Monitoring is required but no limits are specified.

²³mgd = million gallons per day

²⁴Monthly average of daily flow values.

²⁵CFU = Colony Forming Units / 100 ml sample. MPN = Most Probable Number / 100 ml sample. For CFU, a value of <1.0 shall be considered to be non-detect. For MPN, a value of <2.2 shall be considered to be non-detect.

²⁶Week means a seven-day period starting on Sunday and ending on the following Saturday.

²⁷If at least four (4) of seven (7) samples in a week are non-detect, report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) of seven (7) samples in a week have detections of *E. coli*, report "no" in the appropriate space on the SMRF (indicating that the standard has not been met).

²⁸Total Nitrogen = Nitrate as N + Nitrite as N + Total Kjeldahl Nitrogen

²⁹mg/l = milligrams per liter

³⁰A five-month geometric mean of the results of the five (5) most recent samples

TABLE IA-2
ROUTINE DISCHARGE MONITORING – 5.1 MGD (continued)

Sampling Point Number	Sampling Point Identification	Latitude	Longitude		
2	Flow meter at the connection to the City of Goodyear 157 th Avenue WRF reclaimed water distribution system, located 3,000 feet west of Palm Valley WRF, at the intersection of McDowell Road and Billard Avenue	33° 27' 51.48" N	112° 22' 31.08" W		
Parameter	AD	DL	Units	Sampling Frequency	Reporting Frequency
Flow from the Palm Valley WRF reclaimed water distribution system to the City of Goodyear 157 th Avenue WRF reclaimed water distribution system	NE	NE	mgd	Everyday	Quarterly
Flow from the City of Goodyear 157 th Avenue WRF reclaimed water distribution system to the Palm Valley WRF reclaimed water distribution system	NE	NE	mgd	Everyday	Quarterly

TABLE IA-2
ROUTINE DISCHARGE MONITORING – 5.1 MGD (continued)

Sampling Point Number	Sampling Point Identification			Latitude	Longitude
I	Immediately downstream of the UV Channel			33° 27' 55" N	112° 21' 56" W
Parameter	AI	DL	Unit	Sampling Frequency	Reporting Frequency
Metals (total):					
Antimony	0.0048	0.006	mg/l	Quarterly	Quarterly
Arsenic	0.04	0.05	mg/l	Quarterly	Quarterly
Barium	1.60	2.00	mg/l	Quarterly	Quarterly
Beryllium	0.0032	0.004	mg/l	Quarterly	Quarterly
Cadmium	0.004	0.005	mg/l	Quarterly	Quarterly
Chromium	0.08	0.1	mg/l	Quarterly	Quarterly
Cyanide (as free cyanide)	0.16	0.2	mg/l	Quarterly	Quarterly
Fluoride	3.2	4.0	mg/l	Quarterly	Quarterly
Lead	0.04	0.05	mg/l	Quarterly	Quarterly
Mercury	0.0016	0.002	mg/l	Quarterly	Quarterly
Nickel	0.08	0.1	mg/l	Quarterly	Quarterly
Selenium	0.04	0.05	mg/l	Quarterly	Quarterly
Thallium	0.0016	0.002	mg/l	Quarterly	Quarterly

TABLE 1A-2
ROUTINE DISCHARGE MONITORING - 5.1 MGD (continued)

Parameter	AF	DL	Unit	Sampling Frequency	Reporting Frequency
Volatile and Semi-Volatile Organic Compounds (VOCs and SVOCs):					
Benzene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Carbon tetrachloride	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
o-Dichlorobenzene ^{1,4-Dichloro benzene}	0.48	0.6	mg/l	Semi-Annually	Semi-Annually
para-Dichlorobenzene	0.06	0.075	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,1-Dichloroethylene	0.0056	0.007	mg/l	Semi-Annually	Semi-Annually
cis-1,2-Dichloroethylene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
trans-1,2-Dichloroethylene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Dichloromethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
1,2-Dichloropropane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Ethylbenzene	0.56	0.7	mg/l	Semi-Annually	Semi-Annually
Hexachlorobenzene	0.0008	0.001	mg/l	Semi-Annually	Semi-Annually
Hexachlorocyclopentadiene	0.04	0.05	mg/l	Semi-Annually	Semi-Annually
Monochlorobenzene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Styrene	0.08	0.1	mg/l	Semi-Annually	Semi-Annually
Tetrachloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Toluene	0.8	1.0	mg/l	Semi-Annually	Semi-Annually
1,1,1-Trichloroethane	0.16	0.2	mg/l	Semi-Annually	Semi-Annually
1,2,4 - Trichlorobenzene	0.056	0.07	mg/l	Semi-Annually	Semi-Annually
1,1,2 - Trichloroethane	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Trichloroethylene	0.004	0.005	mg/l	Semi-Annually	Semi-Annually
Vinyl Chloride	0.0016	0.002	mg/l	Semi-Annually	Semi-Annually
Xylenes (Total)	8.0	10.0	mg/l	Semi-Annually	Semi-Annually

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TABLE IB
RECLAIMED WATER MONITORING -- CLASS A+³¹

Sampling Point Number	Sampling Point Identification	Latitude	Longitude	
1	Immediately downstream of the UV Channel	33° 27' 55" N	112° 21' 56" W	
Parameter	DL	Units	Sampling Frequency	Reporting Frequency
Total Nitrogen ³² ; Five-sample rolling geometric mean	10.0	mg/l	Monthly	Quarterly
<i>E. coli</i> ; Single-sample maximum	15.0	CFU or MPN ³³	Daily ³⁴	Quarterly
<i>E. coli</i> ; Four (4) of last seven (7) samples	Non-detect ³⁵	CFU or MPN	Daily	Quarterly
Turbidity ³⁶ ; Single reading	5.0	NTU ³⁷	Everyday ³⁸	Quarterly
Turbidity; 24-hour average	2.0	NTU	Everyday	Quarterly
Enteric Virus; Four (4) of last seven (7) samples	Non-detect	PFU ³⁹	Suspended/ Monthly ⁴⁰	Quarterly

³¹Reclaimed water monitoring under Table IB shall be performed in addition to routine discharge monitoring required under Section 4.2, Tables IA-1 and IA-2.

³²Nitrate N, plus Nitrite N, plus Total Kjeldahl Nitrogen (TKN)

³³CFU = Colony Forming Units per 100 ml; MPN = Most Probable Number per 100 ml. For CFU, a value of <1.0 shall be considered to be non-detect. For MPN, a value of <2.2 shall be considered to be non-detect.

³⁴For fecal coliform, "daily" sampling means every day in which a sample can practicably be obtained and delivered in sufficient time for proper analysis, provided that no less than four (4) samples in each seven-day period are obtained and analyzed.

³⁵If at least four (4) of the last seven (7) samples are non-detect, report "yes" in the appropriate space on the SMRF (indicating that the standard has been met). If at least four (4) of the last seven (7) samples have detections of fecal coliform, report "no" in the appropriate space on the SMRF (indicating that the standard has not been met).

³⁶Turbidimeter shall have a signal averaging time not exceeding 120 seconds. Occasional spikes due to back-flushing or instrument malfunction shall not be considered an exceedance. All exceedances must be explained and submitted to the Department with the corresponding quarterly SMRF.

³⁷NTU = Nephelometric Turbidity Units

³⁸For the single turbidity reading, "everyday" means the maximum reading during the 24-hour period.

³⁹Plaque Forming Units per 40 Liters. A value of <1:1 PFU/40 L shall be considered to be non-detect.

⁴⁰Enteric virus sampling shall resume only when the discharge limit for the 24-hour average for turbidity is exceeded for two (2) consecutive 24-hour monitoring periods. Monthly enteric virus monitoring shall continue until four (4) out of seven (7) consecutive sample results show no detection. During times when enteric virus sampling is suspended, enter "suspended" in the appropriate space on the SMRF.

TABLE II
GROUNDWATER MONITORING

Not applicable.

TABLE III
FACILITY INSPECTION (Operational Monitoring)

Pollution Control Structure/Parameter	Performance Level	Inspection Frequency	Reporting Frequency
Pump Integrity	Good working condition	Weekly	Quarterly
Treatment Plant Components	Good working condition	Weekly	Quarterly

5.0 REFERENCES AND PERTINENT INFORMATION

The terms and conditions set forth in this permit have been developed based upon the information contained in the following, which are on file with the Department:

1. APP Application, dated: August 24, 2010
2. Final Engineering Report, dated: March 24, 2011
3. Public Notice, dated: January 26, 2012
4. Public Hearing, dated: Not applicable.
5. Responsiveness Summary, dated: Not applicable.

6.0 NOTIFICATION PROVISIONS

6.1 Annual Registration Fees

The permittee is notified of the obligation to pay an Annual Registration Fee to ADEQ. The Annual Registration Fee is based upon the amount of daily influent or discharge of pollutants in gallons-per-day (gpd) as established by A.R.S. § 49-242.

6.2 Duty to Comply [A.R.S. §§ 49-221 through 263]

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the Arizona Revised Statutes, Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

6.3 Duty to Provide Information [A.R.S. §§ 49-243(K)(2) and 49-243(K)(8)]

The permittee shall furnish to the Director, or an authorized representative, within a time specified, any information which the Director may request to determine whether cause exists for amending or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

6.4 Compliance with Aquifer Water Quality Standards [A.R.S. §§ 49-243(B)(2) and 49-243(B)(3)]

The permittee shall not cause or contribute to a violation of an AWQS at the applicable POC for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an AWQS for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable point of compliance for the facility, the water quality of any aquifer for that pollutant.

6.5 Technical and Financial Capability

[A.R.S. §§ 49-243(K)(8) and 49-243(N) and A.A.C. R18-9-A202(B) and R18-9-A203(E) and (F)]

The permittee shall have and maintain the technical and financial capability necessary to fully carry out the terms and conditions of this permit. Any bond, insurance policy, trust fund, or other financial assurance mechanism provided as a demonstration of financial capability in the permit application, pursuant to A.A.C. R18-9-A203(D), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

6.6 Reporting of Bankruptcy or Environmental Enforcement [A.A.C. R18-9-A207(C)]

The permittee shall notify the Director within five days after the occurrence of any one of the following:

1. The filing of bankruptcy by the permittee; or
2. The entry of any order or judgment not issued by the Director against the permittee for the enforcement of any environmental protection statute or rule.

6.7 Monitoring and Records [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A206]

The permittee shall conduct any monitoring activity necessary to assure compliance with this permit, with the applicable water quality standards established pursuant to A.R.S. §§ 49-221 and 49-223 and §§ 49-241 through 49-252.

6.8 Inspection and Entry [A.R.S. §§ 41-1009, 49-203(B), and 49-243(K)(8)]

In accordance with A.R.S. §§ 41-1009 and 49-203(B), the permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to enter and inspect the facility as reasonably necessary to ensure compliance with Title 49, Chapter 2, Article 3 of the Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit.

6.9 Duty to Modify [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A211]

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices authorized by this permit.

6.10 Permit Action: Amendment, Transfer, Suspension, and Revocation [A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

This permit may be amended, transferred, suspended, or revoked for cause, under the rules of the Department. The permittee shall notify the Groundwater Section in writing within 15 days after any change in the owner or operator of the facility. The notification shall state the permit number, the name of the facility, the date of property transfer, and the name, address, and phone number where the new owner or operator can be reached. The operator shall advise the new owner or operators of the terms of this permit and the need for permit transfer in accordance with the rules.

7.0 ADDITIONAL PERMIT CONDITIONS

7.1 Other Information [A.R.S. § 49-243(K)(8)]

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit the correct facts or information.

7.2 Severability [A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition.

7.3 Permit Transfer

This permit may not be transferred to any other person except after notice to and approval of the transfer by the Department. No transfer shall be approved until the applicant complies with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).

1 APPLICATION OF
2 LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
3 FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
4 AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
5 IN MARICOPA COUNTY, ARIZONA

6 **Exhibit 15**

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8 **(Wastewater Use Data Sheet)**

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COMPANY NAME Liberty Utilities
Litchfield Park Service Company

WASTEWATER FLOWS

MONTH/YEAR (Most Recent 12 Months)	NUMBER OF SERVICES	TOTAL MONTHLY SEWAGE FLOW	SEWAGE FLOW ON PEAK DAY
May 2013	19,800	106,671,000	3,824,000
June 2013	19,875	99,653,000	3,934,000
July 2013	19,926	97,680,000	3,469,000
August 2013	19,960	100,600,000	3,245,000
September 2013	20,045	96,543,000	3,910,000
October 2013	20,094	98,872,000	3,846,000
November 2013	20,117	105,719,000	4,066,000
December 2013	20,179	110,136,000	3,961,000
January 2014	20,366	117,203,000	4,186,000
February 2014	20,429	105,351,000	4,199,000
March 2014	20,491	125,069,000	4,528,000
April 2014	20,533	115,640,000	4,206,000

**PROVIDE THE FOLLOWING INFORMATION AS APPLICABLE
PER WASTEWATER SYSTEM**

Method of Effluent Disposal (leach field, surface water discharge, reuse, injection wells, groundwater recharge, evaporation ponds, etc.)	Reuse, surface discharge
Groundwater Permit Number	N/A
ADEQ Aquifer Protection Permit Number	P100310
ADEQ Reuse Permit Number	R105272, R105472, R105221, R23573, R23618, R23577, R105644, R105706, R105669, R103615
EPA NPDES Permit Number	AZ0025712

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APPLICATION OF
LIBERTY UTILITIES (LITCHFIELD PARK WATER AND SEWER) CORP.
FOR AN EXTENSION OF EXISTING CERTIFICATE OF CONVENIENCE
AND NECESSITY TO PROVIDE WATER UTILITY SERVICE
IN MARICOPA COUNTY, ARIZONA

Exhibit 16

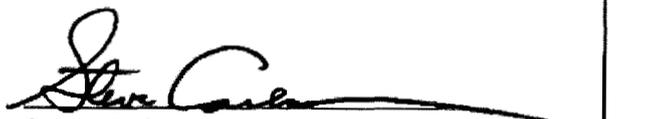
(Notarized Signature on Behalf of Applicant)

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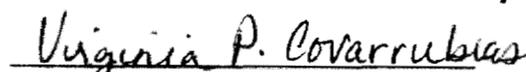
AFFIDAVIT OF STEVE CARLSON

Steve Carlson, being duly sworn, deposes and says:

1. I am a resident of Maricopa County, over 18 years of age, and make this affidavit based on my own personal knowledge.
2. I am the Development Services Manager for Liberty Utilities (Litchfield Park Water and Sewer) Corp. ("Liberty").
3. The Application for an Extension of Liberty's existing wastewater CC&N, to which this affidavit is attached, was prepared under my supervision.


Steve Carlson

SUBSCRIBED and sworn to before me this 2nd day of June, 2014.


Notary Public

My Commission Expires:

April 13, 2018

