ARIZONA DEPARTMENT OF WATER RESOURCES
Water Management Division
3550 North Central Ave, 2nd Floor
Phoenix, Arizona 85012-2105
Phone (602) 771-8585 Fax (602) 771-8689

APPLICATION FOR UNDERGROUND STORAGE FACILITY PERMIT (A.R.S. § 45-811.01)

FOR OFFICE USE ONLY
Application No.: 71-584469.0001
Date Received: 4-23-2012

The initial fee for an Underground Storage Facility Permit Application is $2,000. Total fees for this application are based upon an hourly billable rate, which can be found on the ADWR web site @www.azwater.gov. If the costs of reviewing your application exceed $2,000, you will be invoiced for the difference, up to a maximum total fee of $25,000. Payment may be made by cash, check, or credit card, (if you wish to pay by credit card, please contact the Recharge Program at 602-771-8599). Checks should be made payable to the Arizona Department of Water Resources. In addition to the hourly application fee, the applicant must pay any review-related costs associated with the application and the actual cost of mailing or publishing any legal notice of the application or any notice of a pre-decision administrative hearing on the application. Review related costs are: (1) costs associated with a pre-decision hearing on the application, such as court reporter services and facility rentals for the hearing, and (2) mileage expenses for a site visit conducted before issuing a decision on the application. **Failure to enclose the initial application fee will cause the application to be returned. Fees for an Underground Storage Facility Permit Application are authorized by A.R.S. § 45-871.01 and A.A.C. R12-15-103.**

FACILITY DESIGN: (check one)

[X] **Constructed**

[ ] **Managed**

APPLICATION FOR: (check one)

[ ] **Underground Storage Facility (USF)**

[X] **Modification of USF permit no.:**
71- 584469.0000

[ ] **Renewal of USF permit no.:**
71-_____

GENERAL INFORMATION

1. Name of Applicant: Superstition Mountains Community Facilities District No. 1
5661 S Ironwood Drive (Mailing Address) Apache Junction (City) AZ (State) 85120 (Zip)
Contact Person: Edward Grabek Telephone: (480) 941-6760 Fax: (480) 671-3180

2. Is this a State Demonstration Project? _____ Yes _____ No
(NOTE: Pursuant to A.R.S. § 45-893.01, **only** Conservation Districts qualify to participate in State Demonstration Project program.)

3. Name of Active Management Area or Irrigation Non-Expansion Area where the facility will be located:
Phoenix AMA
(If the facility is NOT located within an AMA or INA, please indicate "NONE.")

4. Name of groundwater basin and subbasin where the facility will be located: East Salt River Valley

5. Legal description of the location of the facility: Portions of the N½ of Section 8, Township 1 South, Range 8 East, Gila and Salt River Base & Meridian.
(quarter/quarter/quarter/section, township and range – see Appendix C of USF Application Guide)

6. Does the applicant own the land where the facility is to be located? X Yes _____ No

7. The total design capacity of the facility: 30,576 acre feet
(acre-feet to be stored over the duration of the USF permit)

8. The maximum annual amount of water proposed for storage at this facility: 2,352 acre feet per annum
(acre-feet per year)

9. Proposed duration of permit: 2012 to 2025 (13 years)
(years)

10. Type of source water to be stored:

☐ CAP Water ☒ Effluent ☐ Decreed and Appropriative Surface Water

If Decreed and Appropriative Surface Water, list river(s): _____

11. I agree under penalty of law to obtain any required floodplain use permit from the county flood control district before beginning any construction activities, as required by A.R.S. § 45-811.01(C)(4). ☒ Agree ☐ Disagree

12. **For managed USFs where effluent will be stored only:** Are you requesting that this facility be designated as a facility that could add value to a national park, national monument or state park, as described in A.R.S. § 45-811.01(D)?

☐ Yes ☐ No

If yes, please submit a completed USF Permit Application Supplement to designate a Managed Underground Storage Facility as one that could add value to a national park, national monument, or state park and all additional information as described on the USF Permit Application Supplement.

13. **For permit modifications only,** give a brief description of the modification(s) requested by this application: Changing the number of and size of recharge basins and vadose zone recharge wells; adding contingencies; changing monitoring activities at one off-site well.

SUPPORTING EVIDENCE

Check the following items that have been included with this submittal. For a new USF application, all items **must** be submitted prior to receiving a complete and correct determination by the Department. For a modification to an existing USF permit, submit only those items that apply to the modification. For a full description of these requirements refer to the USF Application Report in the USF Application Guide.

14. USF Site and Facility Characteristics:

☐ Site Characteristics ☐ Geology

☒ Facility Characteristics ☐ Hydrogeology

15. Unreasonable Harm and Hydrologic Feasibility Analysis:

☐ Procedures and Results for Calculating Maximum Area of Impact and Mounding Analysis

☐ Land and Water Use Inventory ☐ Unreasonable Harm Analysis ☐ Monitoring Plan

☐ Water Quality ☐ Hydrologic Feasibility Conclusions ☐ Operation and Maintenance

16. Legal Requirements:

☐ Technical Capability ☐ Financial Capability ☐ Legal Access

NOTARIZED SIGNATURE

I (We), Superstition Mountains Community Facilities District No. 1, the applicant(s) named in this application, do hereby certify under the penalty of perjury, that the information contained and statements made herein are to the best of my (our) knowledge and belief true, correct and complete.

(480) 941-6760
Telephone

Signature of owner or authorized agent

DISTRICT MANAGER & DISTRICT CLERK
Title

5661 S Ironwood Drive	Apache Junction	AZ	85120
Mailing Address	City	State	Zip

STATE OF ARIZONA)
) ss.
County of Pinal)

Subscribed and sworn to before me this 18th day of April, 2012

Andrea M. Dominguez
Notary Public

Oct. 17, 2012
My commission expires

ANDREA M. DOMINGUEZ
Notary Public - Arizona
Maricopa County
My Comm. Expires Oct 17, 2012

Southwest Ground-water Consultants, Inc.

April 17, 2012

Mr. Andrew Craddock, Recharge Program Manager
Arizona Department of Water Resources
3550 N. Central Ave, Floor
Phoenix, Arizona 85012

SUBJECT: Modification of Superstition Mountains Community Facilities District No.1 (SMCFD) Underground Storage Facility (USF) Permit 71-584469.0000

Dear Mr. Craddock

Southwest Ground-water Consultants, Inc. (SGC), on behalf of SMCFD, presents the following letter report in support of a modification to USF permit number 71-584469.0000. SGC and SMCFD met with ADWR representatives Ms. Tracey Carpenter, Mr. Tito G. Comparan, and Ms. Diane J. Kusel in a pre-application meeting on October 25, 2011. Due to the physical changes proposed to the recharge facility, SGC understands that this permit modification cannot be accomplished by the Director. This permit modification does not propose to increase the amount of recharge at the underground storage facility or to extend the duration of the permit. For this reason ADWR staff agreed that the review procedure would be expedited.

Modification of the SMCFD USF permit 71-584469.0000 is proposed for recharge facility design structures and monitoring. Design contingencies have been added based on the current understanding of the site characteristics. One water level monitoring point is proposed to be eliminated as part of this permit modification. A correction of the Permittee address is also requested to reflect its current location at 5661 S Ironwood Drive, Apache Junction, Arizona 85120. The following report is prepared as a guide for ADWR while making specific changes to the existing USF permit.

FACILITY DESIGN MODIFICATIONS

Section 3.a. of the existing USF permit requires that quarterly and annual data reports for the facility include a facility map showing all monitoring points and relevant facility features including recharge basins, measurement devices, and vadose zone recharge wells. An Updated 2011 Recharge Facility Map, Phasing Plan is provided in Attachment I. Existing and proposed changes to the recharge facility since the original permit was issued relate to the number, size, and shape of the recharge basins, and the number and location of vadose zone recharge wells.

The methods of effluent recharge at the facility include both recharge basins and vadose zone recharge wells. Basins 1, 2, and 3 were initially designed to perform the majority of recharge via percolation. The associated vadose zone recharge wells in these basins were designed to accept ponded effluent in the basin through the top of each well. However, this method of recharge had practical and logistical drawbacks that necessitated a new plan for the facility. Therefore, effluent recharge in Basins 4, 5, 6, 7, 8, 9, and 10 was reengineered to conduct a majority of

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Phoenix, Arizona

recharge through direct injection of effluent to the vadose zone recharge wells. At such time as the recharge wells in these basins can no longer accept all the injected effluent, it overflows the top of the well and into the appropriate recharge basin.

Facility design changes proposed in this modification will improve the recharge efficiency in Basins 1, 2, and 3, with their conversion to direct injection vadose zone recharge wells. However, with direct injection many more recharge wells are required to meet recharge capacity. Removal of berms and a reduction in the total number of basins at the facility will create the space necessary to install additional vadose zone recharge wells to meet recharge capacity.

Recharge Basin Design Modifications

In order to achieve the desired operational efficiency of the recharge facility, additional space was necessary to accommodate an increased number of vadose zone recharge wells. In the Updated 2011 Recharge Facility Map (Attachment I), the recharge basins and vadose zone well locations, including all proposed future modifications, are clearly shown. Construction of the recharge facility has been divided into three phases. Phase I construction modifications have been completed. Phase II and Phase III construction modifications will be initiated as the need for additional vadose zone recharge wells and recharge basins become necessary to meet the maximum recharge capacity of the recharge facility of 2.1 MGD. For clarity, basin numbers referring to the existing basins use the prefix EB; basin numbers following the proposed design changes in the USF modification use the prefix RB.

The size and shape of EB-1 was not modified during Phase I. Permit modifications for Recharge Basin 1 (RB-1) will require the name change to Recharge Basin 1, and a recalculated maximum wetted area of 0.585-ac. During Phase I construction, the berm between existing basins EB-2 and EB-5 was removed to form Recharge Basin 2 (RB-2). Likewise, the berm between existing basins EB-3 and EB-6 was removed to form Recharge Basin 3 (RB-3). Permit modifications for RB-2 requires the name change to Recharge Basin 2, and a new maximum wetted area of 1.148-ac. Permit modifications for RB-3 requires the name change to Recharge Basin 3, and a new maximum wetted area of 1.187-ac. All Phase I components are currently complete.

Phase II construction will include removal of the berm between existing basins EB-4 and EB-7 to form Recharge Basin 4 (RB-4). Permit modifications for RB-4 requires the name change to Recharge Basin 4, and a new maximum wetted area not to exceed 1.226-ac. Phase II construction modifications will be initiated as the need for additional vadose zone recharge wells and recharge basins become necessary to meet the maximum recharge capacity of the recharge facility of 2.1 MGD. This may occur as early as calendar year 2012.

Phase III construction involves expansion of existing basins EB-8, EB-9, and EB-10 to form Recharge Basins 5 (RB-5), 6 (RB-6), and 7 (RB-7), respectively. Permit modifications for RB-5, RB-6, and RB-7 require the name changes to Recharge Basin 5, Recharge Basin 6, and Recharge Basin 7, and a new maximum wetted area of approximately 1.5 acres for each basin. Phase III

construction modifications will be initiated as the need for additional vadose zone recharge wells and recharge basins become necessary to meet the maximum recharge capacity.

A USF permit modification is proposed to **permit Table 4, Recharge Basins**. To accommodate these changes to the permit, please refer to the following table.

Table 4
Recharge Basins

Basin Identifier	Phase	Location	Maximum Wetted Area (acres)
Recharge Basin 1	I	See the Updated 2011 Recharge Facility Map dated 3/27/12	0.585
Recharge Basin 2	I		1.148
Recharge Basin 3	I		1.187
Recharge Basin 4	II		Not to exceed 1.226 acres
Recharge Basin 5	III		Estimated 1.5 acres
Recharge Basin 6	III		Estimated 1.5 acres
Recharge Basin 7	III		Estimated 1.5 acres

Vadose Zone Recharge Well Modifications

As described above, the primary method of recharge for the updated recharge facility is now accomplished through direct injection of effluent to vadose zone recharge wells. This change requires the addition of up to thirty-six (36) vadose zone recharge wells to the existing permit. The Updated 2011 Recharge Facility Map (Attachment I) shows the location and phases of existing and proposed vadose zone recharge wells and includes a total of eight (8) wells in each of the seven (7) recharge basins.

Phase I construction modifications to the USF are complete. Phase I included the installation of four (4) additional vadose zone (recharge) wells in each of Recharge Basins 1, 2, and 3. Currently there are a total of six (6) wells in RB-1, and a total of eight (8) wells in RB-2 and RB-3, respectively. At the conclusion of Phase I, a total of thirty-two (32) vadose zone recharge wells have been installed at the facility (Attachment I).

Phase II construction will be initiated as the need for additional vadose zone recharge wells become necessary to meet the maximum recharge capacity of 2.1 MGD. In addition to the recharge basin modifications discussed above, Phase II is planned to include the addition of six (6) more vadose zone (recharge) wells: two (2) in RB-1, and four (4) in RB-4.. At the conclusion of Phase II, the recharge facility will have a total of thirty-eight (38) vadose zone (recharge) wells.

Phase III construction modifications will be initiated as the need for additional vadose zone recharge wells becomes necessary to meet the maximum permitted recharge capacity of 2.1 MGD. To this end, Phase III may include the addition of up to eighteen (18) more wells at the recharge facility. As part of this permit modification, an additional six (6) wells will be constructed during Phase III in RB-5, RB-6, and RB-7, respectively. At the conclusion of Phase III (build-out), each of the seven (7) recharge basins will have eight (8) wells for a total of fifty-six (56) direct injection vadose zone recharge wells at the facility.

A USF permit modification is proposed to **permit Table 5, Vadose Zone Recharge Wells.** Modified information for SMCFD vadose zone recharge wells is provided in Attachment II.

Facility Design Contingencies

Design contingencies are proposed at the SMCFD Underground Storage Facility (USF) to be utilized as the need for additional recharge capacity increases with available effluent (up to 2.1 MGD), or existing recharge components require repair or replacement. A phasing-in of constructed recharge basins and vadose zone recharge wells is proposed to meet increasing needs. A total of three (3) phases are expected at the recharge facility in order to reach full capacity of 2.1 MGD.

Phases I, II, and III proposed construction modifications are shown in the Updated 2011 Recharge Facility Map (Attachment I). During Phase I, RB-1, RB-2, and RB-3 were constructed or modified with installation of four (4) vadose zone (recharge) wells in each basin, respectively. Phase I construction is complete. During Phase II, RB-4 will undergo modifications that include the removal of the interior berm and the installation of four (4) more vadose zone recharge wells. Phase II will also include the installation of two (2) more wells in RB-1. Phase II construction will commence as additional recharge capacity is necessary, and may occur as early as calendar year 2012. Proposed Phase III recharge facility components are intended as final effort to increase recharge capacity as needed to maintain the permit maximum up to 2.1 MGD. This contingency is necessary to increase the efficiency of the operation of the recharge facility with the construction of larger basins for RB-5, RB-6, and RB-7 and the installation of up to six (6) additional vadose zone recharge wells in each of these three recharge basins, respectively.

A second contingency relates to replacement of vadose zone recharge wells within Phases I, II, and III. SGC proposes that permitted wells may also be replaced as necessary at approximately the same location during the operational life of the recharge facility. Clogging or other mechanism of failure may require a replacement well at one or more locations on the site. The new location of a contingency replacement vadose zone recharge well will be within the respective recharge basin of the well which it replaces. Based on current site conditions, the operational life of a vadose zone recharge well is approximately ten (10) years. For the purposes of this modified permit, any permitted well at the recharge facility may be replaced as described above up to two (2) times.

MONITORING PLAN MODIFICATIONS

Water Level Monitoring

The locations of the two onsite water level monitoring wells at the recharge facility are shown on the Updated 2011 Recharge Facility Map (Attachment I). Ambient water levels at MW-1 (55-583289) range from approximately 198 to 204 feet bls (2011). Ambient water levels at MW-2 (55-204563) range from approximately 191 to 199 feet bls (2011). The alert level is 50 feet bls, and the operation prohibition limit is 40 feet bls. Measurements of water levels are taken on a monthly basis and are measured using a portable electric sounder.

The original USF permit also describes a third water level monitoring well for the recharge facility located on Arizona State Land approximately 1-mile southeast at D(01-08)17aaa (55-615221). The correct cadastral for this well is D(01-08)09ccc. This well was constructed in 1967 for irrigation purposes, and was installed in the regional groundwater table to approximately 750 feet bls. Access to both the well site and the regional water table in the well has been limited. An obstruction at 406 feet bls has prevented water level measurements at this location since issuance of the original USF permit in 2005.

For this USF permit modification, SGC proposes to exclude Arizona State Land Department (ASLD) well 55-615221 from **permit Table 1, Water Level Monitoring.** Water level readings in the two onsite monitoring wells are used to track ground-water level rises in the shallow ground-water zone. As water levels in this zone are expected to rise faster than in the regional aquifer, this data verifies the storage potential of the aquifer and assists in adjusting the recharge rate to control the rise of water levels. A deeper monitoring well does not provide the same level of protection as a monitoring well perforated in the perched aquifer. Since the recharge facility utilizes vadose zone (recharge) wells and surface percolation basins, ground-water mounding is likely to occur in the perched aquifer first. The ASLD well design does not monitor rises in the perched water table and does not adequately protect neaby land and water users from any potential unreasonable harm due to a rising water table. The two existing onsite monitoring wells appear to adequately monitor rises in the perched water table, and it is SGC's opinion that the need for a third shallow monitoring well is not warranted at this time. This is in conformance with correspondence with ADWR in 2009, which a letter proposing to remove the third monitoring point was requested by ADWR. Copies of that correspondence are included in Attachment III.

SUMMARY

Superstition Mountains Community Facilities District Number 1 (SMCFD) has proposed the following modifications to Underground Storage Facility permit No. 71-584469.0000:

- Correction of the Permittee's address to reflect its current location at 5661 S Ironwood Drive, Apache Junction, Arizona 85120.

- Efficiency improvements for the recharge facility will be accomplished through the installation of direct injection vadose zone (recharge) wells with effluent overflow captured in surface percolation recharge basins.

- An Updated 2011 Recharge Facility Map (Attachment I) showing the location of recharge basins and vadose zone recharge wells for the modified permit. Phase I components are constructed. Phase II components may be constructed as early as calendar year 2012. Phase III components will be constructed in the future to augment recharge capacity up to 2.1 MGD.

- Contingencies are proposed to allow for the construction of additional vadose zone recharge wells and recharge basin modifications during Phases II and III as needed for additional recharge capacity up to 2.1 MGD.

- Up to two (2) replacement wells may be constructed in approximately the same location for each vadose zone recharge well in the modified permit.

- Water level monitoring of the perched water table will continue at MW-1 and MW-2 as described in the original permit. Water level monitoring of the regional water table at ASLD well 55-615221 will be discontinued in the modified permit.

Please contact our office with any questions or concerns.
Sincerely,

Southwest Ground-water Consultants, Inc.

Dylan J. Easthouse, R.G.

Attachments: Attachment I: Updated 2011 Recharge Facility Map, Phasing Plan (Drawn 3/27/12)

Attachment II: Proposed changes to permit Table 5, Vadose Zone Recharge Wells

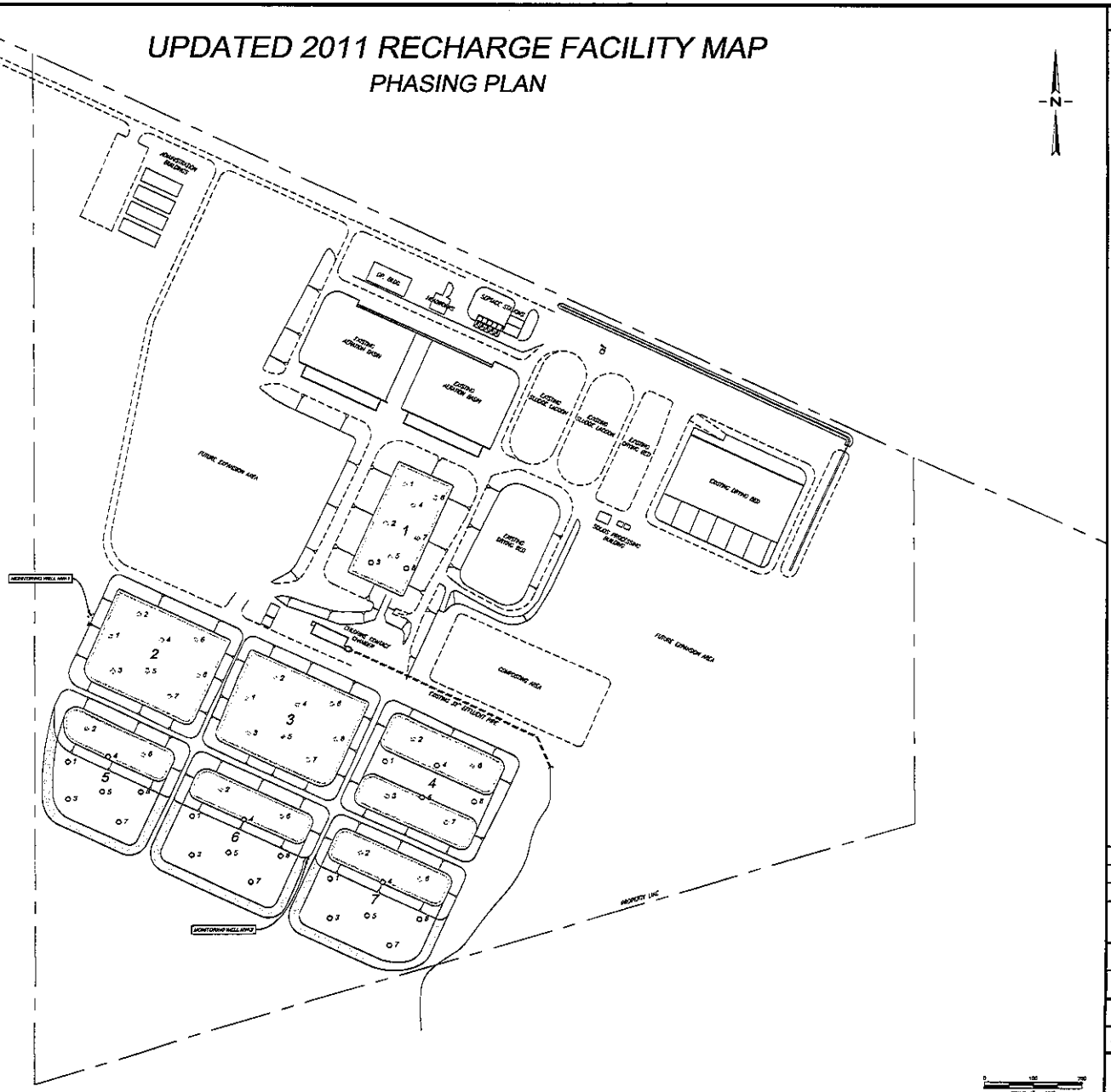
Attachment III: Copies of ADWR Correspondence regarding removal of the third water level monitoring point from the current USF permit.

Attachment I

SMCFD No. 1 Updated 2011 Recharge Facility Map Phasing Plan

UPDATED 2011 RECHARGE FACILITY MAP

PHASING PLAN

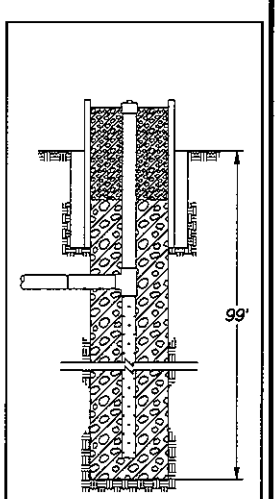


NOTES

PHASE 1:
- ◯ VADOSE ZONE WELLS
- ☐ RECHARGE BED AREA

PHASE 2:
- ◯ VADOSE ZONE WELLS
- ☐ RECHARGE BED AREA

PHASE 3:
- ◯ VADOSE ZONE WELLS
- ☐ RECHARGE BED AREA



VADOSE ZONE WELL DEPTH

TOWNSHIP:	01 SOUTH
RANGE:	08 EAST
SECTION:	08

Updated 2011 Recharge Facility Map

Phasing Plan

Design: DLA	Drawn: DLA	Check: EJG
Job: 11.C.11	Date: 03-27-12	Sheet: 1 of 1

Superstition Mountains Community Facilities District No. 1

SMCFD

X:\Technical Services Department\AutoCAD DWG's\Projects\Recharge Bed Modifications 2011\Final Draft Bed-Well Layout.dwg dinglin 20120327.15575925

Attachment II

Proposed changes to USF Permit Table 5, Vadose Zone Recharge Wells

Superstition Mountains Community Facilities District # 1
USF PERMIT No. 71-584469.0000

Recharge Bed Number	Wetted Acres	Existing Well ID	Vadose Zone Well Number	ADWR Registration Number	Latitude			Longitude			Well Depth	Screened Interval
1	0.585		1 - 1		33°	21'	42.36"	111°	33'	29.39"	99	0.5-98
			1 - 2		33°	21'	41.55"	111°	33'	29.94"	99	0.5-98
			1 - 3		33°	21'	40.78"	111°	33'	30.31"	99	0.5-98
		VZ-1	1 - 4	55-206135	33°	21'	41.93"	111°	33'	29.28"	99	0.5-98
		VZ-2	1 - 5	55-206136	33°	21'	40.93"	111°	33'	29.85"	99	0.5-98
			1 - 6		33°	21'	42.09"	111°	33'	28.75"	99	0.5-98
			1 - 7		33°	21'	41.27"	111°	33'	29.19"	99	0.5-98
			1 - 8		33°	21'	40.66"	111°	33'	29.46"	99	0.5-98
2	1.148		2 - 1		33°	21'	39.31"	111°	33'	36.64"	99	0.5-98
		VZ-3	2 - 2	55-206137	33°	21'	49.74"	111°	33'	35.95"	99	0.5-98
		VZ-9	2 - 3	55-212738	33°	21'	38.58"	111°	33'	36.58"	99	0.5-98
			2 - 4		33°	21'	39.20"	111°	33'	35.37"	99	0.5-98
			2 - 5		33°	21'	38.58"	111°	33'	35.75"	99	0.5-98
		VZ-4	2 - 6	55-206138	33°	21'	39.20"	111°	33'	34.56"	99	0.5-98
		VZ-10	2 - 7	55-212737	33°	21'	38.05"	111°	33'	35.20"	99	0.5-98
			2 - 8		33°	21'	38.48"	111°	33'	34.52"	99	0.5-98
3	1.187		3 - 1		33°	21'	37.99"	111°	33'	33.31"	99	0.5-98
		VZ-5	3 - 2	55-206139	33°	21'	38.46"	111°	33'	32.64"	99	0.5-98
		VZ-11	3 - 3	55-212724	33°	21'	37.30"	111°	33'	33.28"	99	0.5-98
			3 - 4		33°	21'	37.87"	111°	33'	32.09"	99	0.5-98
			3 - 5		33°	21'	37.24"	111°	33'	32.44"	99	0.5-98
		VZ-6	3 - 6	55-206140	33°	21'	37.92"	111°	33'	31.20"	99	0.5-98
		VZ-12	3 - 7	55-212723	33°	21'	36.75"	111°	33'	31.85"	99	0.5-98
			3 - 8		33°	21'	37.17"	111°	33'	31.17"	99	0.5-98
4	Not to exceed 1.226 acres		4 - 1		33°	21'	36.72"	111°	33'	29.97"	99	0.5-98
		VZ-7	4 - 2	55-212740	33°	21'	37.16"	111°	33'	29.30"	99	0.5-98
		VZ-13	4 - 3	55-212722	33°	21'	36.00"	111°	33'	29.94"	99	0.5-98
			4 - 4		33°	21'	36.63"	111°	33'	28.72"	99	0.5-98
			4 - 5		33°	21'	35.98"	111°	33'	29.08"	99	0.5-98
		VZ-8	4 - 6	55-212739	33°	21'	36.61"	111°	33'	27.86"	99	0.5-98
		VZ-14	4 - 7	55-212721	33°	21'	35.45"	111°	33'	28.50"	99	0.5-98
			4 - 8		33°	21'	35.89"	111°	33'	27.82"	99	0.5-98
5	Estimated 1.5 acres		5 - 1		33°	21'	36.75"	111°	33'	37.69"	99	0.5-98
		VZ-15	5 - 2	55-212720	33°	21'	37.41"	111°	33'	37.22"	99	0.5-98
			5 - 3		33°	21'	35.98"	111°	33'	37.69"	99	0.5-98
			5 - 4		33°	21'	36.85"	111°	33'	36.70"	99	0.5-98
			5 - 5		33°	21'	36.13"	111°	33'	36.85"	99	0.5-98
		VZ-16	5 - 6	55-212785	33°	21'	36.88"	111°	33'	35.84"	99	0.5-98
			5 - 7		33°	21'	35.50"	111°	33'	36.44"	99	0.5-98
			5 - 8		33°	21'	36.12"	111°	33'	35.90"	99	0.5-98
6	Estimated 1.5 acres		6 - 1		33°	21'	35.62"	111°	33'	34.65"	99	0.5-98
		VZ-17	6 - 2	55-212781	33°	21'	36.16"	111°	33'	33.97"	99	0.5-98
			6 - 3		33°	21'	34.81"	111°	33'	34.66"	99	0.5-98
			6 - 4		33°	21'	35.54"	111°	33'	33.39"	99	0.5-98
			6 - 5		33°	21'	34.86"	111°	33'	33.77"	99	0.5-98
		VZ-18	6 - 6	55-212782	33°	21'	35.59"	111°	33'	32.49"	99	0.5-98
			6 - 7		33°	21'	34.26"	111°	33'	33.23"	99	0.5-98
			6 - 8		33°	21'	34.78"	111°	33'	32.50"	99	0.5-98
7	Estimated 1.5 acres		7 - 1		33°	21'	34.32"	111°	33'	31.30"	99	0.5-98
		VZ-19	7 - 2	55-212783	33°	21'	34.84"	111°	33'	30.58"	99	0.5-98
			7 - 3		33°	21'	33.51"	111°	33'	31.31"	99	0.5-98
			7 - 4		33°	21'	34.24"	111°	33'	30.04"	99	0.5-98
			7 - 5		33°	21'	33.56"	111°	33'	30.42"	99	0.5-98
		VZ-20	7 - 6	55-212784	33°	21'	34.29"	111°	33'	29.14"	99	0.5-98
			7 - 7		33°	21'	32.96"	111°	33'	29.88"	99	0.5-98
			7 - 8		33°	21'	33.48"	111°	33'	29.15"	99	0.5-98

Phase 1	Completed (2011)
Phase 2	Planned (2012-2013)
Phase 3	Future

Attachment III

Copies of ADWR correspondence regarding removal of the third water level monitoring point from the USF permit

Dylan J. Easthouse

From: Nathan E. Miller <nmiller@sgcground-water.com>
Sent: Thursday, November 03, 2011 9:11 AM
To: deasthouse@sgcground-water.com
Subject: FW: Superstition Mountains Community Facilities District #1, USF#71-584469

From: Tito G. Comparan [mailto:tgcomparan@azwater.gov]
Sent: Monday, April 20, 2009 1:07 PM
To: Nathan E. Miller
Subject: Superstition Mountains Community Facilities District #1, USF#71-584469

Hello Nathan,

Here is an update on the status of the ASLD well which is currently in the SMCFD#1 USF permit.
Drew is now leaning towards accepting the removal of that well from the permit but he would like for you (or Ed G.) to submit an official request to have it removed (and not replaced) with a justification. Note: Your last letter from January 16, 2008 discusses replacing the ASLD well with a shallower monitor well but we do not think another shallow well will be provide us with any more relevant data and so it would not be needed in the permit, Therefore please submit a new request and I think we can get this ASLD well issue taken care of now.
Feel free to call me if you have any questions.

Tito

Southwest Ground-water Consultants, Inc.

April 21, 2009

Mr. John Bodenchuk
Recharge Program Manager
Arizona Department of Water Resources
3550 North Central Avenue, Second Floor
Phoenix, Arizona 85012

SUBJECT: Request to Cancel the Requirement for Installation of Third Monitor Well - Superstition Mountains Community Facilities District No. 1, Underground Storage Facility (ADWR No. 71-584469)

Dear Mr. Bodenchuk:

Southwest Ground-water Consultants, Inc. (SGC), on behalf of Mr. Ed Grabek, of Superstition Mountains Community Facilities District No. 1 (SMCFD No. 1), requests that the requirement for monitoring water levels in the Arizona State Land Department Well No. 55-615221, which is perforated in the deeper regional aquifer at the facility, be eliminated. Our rationale for this request is discussed below.

Since the recharge facility utilizes vadose zone wells and surface percolation basins, ground-water mounding is likely to occur in the perched aquifer first. A deeper well design would not monitor rises in the perched water table, and therefore, would not adequately protect nearby land and water users from any potential unreasonable harm due to a rising water table. Because the two existing monitor wells appear to adequately monitor rises in the perched water table, it is SGC's opinion that the need for a third shallow monitor well is not warranted at this time.

If you have any questions or require additional information, please contact Mr. Ed Grabek of SMCFD No. 1 at (480) 983-2212, or Mr. Nathan Miller of SGC at (602) 955-5547.

Sincerely,

Southwest Ground-water Consultants, Inc.

Stephen D. Noel, R.G.
President

cc: Mr. Tito G. Comparan, ADEQ

3033 N. 44th Street, Suite 120
Phoenix, Arizona 85018
(602) 955-5547 Fax (602) 955-7585

Phoenix, Arizona
Prescott, Arizona