District Court, Water Division 1, State of Colorado

Court Address: 901 9th Ave

P. O. Box 2038

Greeley, CO 80632

EFILED Document - District Court

1004CW28

CONCERNING THE APPLICATION FOR WATER RIGHTS OF:

O Weld County District Court 19th JD Filing Date: Aug 14 2009 11:52AM MDT

Filing ID: 26600176

TOWN CENTER METROPOLITAN DISTRICT

IN DENVER COUNTY

[♠]COURT USE ONLY

Case No. 04CW28

NOTICE OF REFEREE RULING

Douglas Sinor

1120 Lincoln St., Ste. 1600

Denver, CO 80203

David Hill

1712 Pearl St.

Boulder, CO 80302

Richard Mehren

PO Box 1440

Boulder, CO 80306

John Dingess

3600 So. Yosemite St., Ste. 500

Denver, Co 80237-1829

Division Engineer

State Engineer

The Water Court Referee for Water Division No. 1 has instructed me to forward a copy of this Ruling. Please check the Ruling carefully. If any errors are found, notify the Water Clerk's Office immediately. If you have any questions regarding this matter, please direct them to the Water Referee at (970) 351-7300, ext. 5405 or by e-mail to john.cowan@judicial.state.co.us

You have twenty days after the above mailing to file with the Water Clerk any pleading in protest to or in support of the Referee's Ruling. Any such pleading must be filed on or before

September 3, 2009, plus any additional time allowed by Rule 6(e) C.R.C.P. In the absence of any pleading, the Judge of the Water Court will enter the Referee's Ruling as a Decree the day after September 3, 2009.

Certificate of Service

I hereby certify that I served via LexisNexis File & Serve, a true and correct copy of the foregoing Ruling to the parties listed above.

Dated: August 14, 2009

Connie Koppes

Water Clerk, Water Division 1

This ruling was filed electronically pursuant to Rule 121, §1-26. The original is in the Court's file.

FINDINGS OF FACT, CONCLUSIONS OF LAW, RUI JUDGMENT AND DECRE	LING OF WATER REFEREE, EE
	Case Number: 2004CW28
CONCERNING THE APPLICATION FOR WATER RIGHTS OF TOWN CENTER METROPOLITAN DISTRICT, IN DENVER COUNTY, COLORADO	COURT USE ONLY
Court Address: 901 9th Avenue Greeley, CO 80632	
DISTRICT COURT, WATER DIVISION 1, COLORADO	

This matter is before the Court on the application for water rights and approval of plan for augmentation filed on February 13, 2004, by Town Center Metropolitan District. The matter was referred to the Water Referee, and the Water Referee, being fully advised in the premises, enters the following Findings of Fact, Conclusions of Law and Ruling:

FINDINGS OF FACT

1. Name, address and telephone number of applicant:

Town Center Metropolitan District ("Town Center") c/o Charles Foster District Manager 5600 S. Quebec, #255C Greenwood Village, CO 80111 303 740-7440

2. <u>Notice and Jurisdiction</u>. Timely and adequate notice of the Application herein was given in accordance with law. The Court has jurisdiction over the subject matter of this proceeding and over all persons and property affected hereby, irrespective of whether those persons or property owners have appeared. None of the lands, wells, or water rights involved in this case are within the boundaries of any designated groundwater basin.

- 3. <u>Statements of Opposition</u>. The time for filing statements of opposition has expired. Timely statements of opposition were filed to the application by the City of Englewood, City of Aurora, and South Adams County Water and Sanitation District ("South Adams"). Town Center has entered into a stipulation with the City of Englewood, dated June 26, 2006, a stipulation with the City of Aurora, dated September 6, 2007, and a stipulation with South Adams dated July 24, 2008.
- 4. <u>Summary of Consultation</u>. The Division Engineer for Water Division No. 1 filed a Summary of Consultation dated July 18, 2004.

Conditional Underground Water Rights

- 5. Name of well:
 - a. Green 15 Pond Well (Well permit no. 61812-F).
 - b. Green Valley Ranch Alluvial Well #1.
 - c. Green Valley Ranch Alluvial Well #2.
 - d. Green Valley Ranch Alluvial Well Field: up to four proposed wells in the alluvial aquifer of First Creek, subject to the conditions of paragraph13.c below.

6. <u>Legal description of wells:</u>

- a. Green 15 Pond Well: An existing unlined pond located in the NE 1/4 of the SE1/4 of Section 15, T3S, R66W, 6th P.M., City and County of Denver, Colorado, the center of which is located at a point approximately 2,750 feet from the North section line and 1,090 feet from the East section line of said Section 15.
- b. Green Valley Ranch Alluvial Well #1: A proposed well to be located in the NW 1/4 of the NW 1/4 of Section 15, T3S, R66W, 6th P.M., City and County of Denver, Colorado, within 200 feet of a point 1,050 feet from the West line and 1,100 feet from the North line of said Section 15.
- c. Green Valley Ranch Alluvial Well #2: A proposed well to be located in the SW 1/4 of the NE 1/4 of Section 15, T3S, R66W, 6th P.M., City and County of Denver, Colorado, within 200 feet of a point 2,240 feet from the East line and 2,315 feet from the North line of said Section 15.

- d. Green Valley Ranch Alluvial Well Field: Up to four additional wells are proposed to be located in the Green Valley Ranch North development, which is located in Sections 14, 15, 22 and 23 T3S, R66W, 6th P.M., City and County of Denver, Colorado.
- 7. <u>Source</u>: For all wells: Alluvial ground water tributary to First Creek, tributary to the South Platte River.

8. Depth:

- a. Green 15 Pond Well: approximately 8 feet.
- b. Green Valley Ranch Alluvial Well #1 and #2, and Green Valley Ranch Alluvial Well Field: unknown.

9. <u>Date of Appropriation:</u>

- a. Green 15 Pond Well: February 1, 2003.
- b. Green Valley Ranch Alluvial Well #1 and #2, and Green Valley Ranch Alluvial Well Field: February 13, 2004.

10. How appropriation was initiated:

- a. Green 15 Pond Well: By formation of intent to appropriate together with initiation of construction of the Green 15 Pond.
- b. Green Valley Ranch Alluvial Well #1 and #2, and Green Valley Ranch Alluvial Well Field: By formation of intent to appropriate together with field and engineering work and the filing of the application in this matter.

11. Amount claimed:

- a. Green 15 Pond Well: 500 gpm, 1.1 cfs, conditional, not to exceed 450 acre-feet per year.
- b. Green Valley Ranch Alluvial Well #1 and #2: 200 gpm, 0.45 cfs, each, not to exceed a total of 450 acre-feet per year, conditional.
- c. Green Valley Ranch Alluvial Well Field: Each well will have a maximum pumping rate of 200 gpm, 0.45 cfs, conditional. The total combined maximum

pumping rate for all wells described in paragraph 11.b and 11.c will be 1,200 gpm, 2.7 cfs, conditional, not to exceed 450 acre-feet per year.

12. Proposed use: For all wells: Irrigation of the Green Valley Ranch Golf Course and surrounding trails, parks, green belts, schools and streetscapes within the Green Valley Ranch North development; recreation; fish and wildlife propagation; replacement of evaporation and seepage; augmentation and replacement by direct use or storage. The Green Valley Ranch Golf Course and the Green Valley Ranch North development are located in Sections 14, 15, 22 and 23, T3S, R66W, 6th P.M., City and County of Denver, Colorado.

Plan for Augmentation

- 13. Names of structures to be augmented:
 - a. Green 15 Pond Well.
 - b. Green Valley Ranch Alluvial Well #1 and #2.
 - c. Green Valley Ranch Alluvial Well Field: Town Center may petition the Court in the future to add any of the four proposed Green Valley Ranch Alluvial Well Field wells described in paragraph 6.d as structures to be augmented pursuant to the terms and conditions of this decree. The petition shall specify the location of the well(s) to be added and the aquifer parameters and depletion factors for each well and demonstrate that out-of priority depletions for each well will be replaced so as to prevent injury to other water rights. Town Center will provide notice in writing to the parties in this case of the filing of any such petition. The parties shall have 60 days from the date of the notice to file an objection to the petition. If any party files an objection, Town Center shall have the burden of proving that the addition of the proposed wells will not cause injury to other water rights. If no objection is timely filed, the Court shall grant the petition and the proposed wells shall be added to the plan for augmentation and be governed by the terms and conditions of this decree.
 - d. No other water rights are or will be diverted from these structures.
- 14. Previous decree for water rights to be used for augmentation: Town Center will use the direct discharge of nontributary ground water to First Creek and return flows from nontributary ground water in the Upper Arapahoe, Lower Arapahoe and Laramie-Fox Hills aquifers as augmentation sources. The augmentation sources are described more fully as follows:

- a. Date Decree entered: April 29, 1987.
- Case No.: Consolidated Case Nos. 82CW488 and 84CW030.
- c. Court: District Court in and for Water Division No. 1
- d. Type of water right: Nontributary ground water in the Denver Basin to be withdrawn from eight wells known as TCMD Well Nos. 1 through 8 (collectively, the "TCMD Wells"). Town Center reserves the right to construct additional nontributary wells to be used for augmentation in accordance with the decree entered in consolidated Case Nos. 82CW488 and 84CW030.
- e. Description of nontributary wells (location, aquifer and permitted amounts):
 - i. TCMD Well No. 1: (Lower Arapahoe Aquifer)(Permit no. 65704-F (prior Permit no. 53881-F)); SW 1/4 of the NW 1/4 of Section 14, T3S, R66W, 6th P.M., City and County of Denver, Colorado, at a point 1,770 feet from the North line and 760 feet from the West line of said Section 14. Average annual withdrawal of 282 acre-feet in combination with TCMD Well Nos. 3 and 8.
 - ii. TCMD Well No. 2: (Upper Arapahoe Aquifer) (Permit no. 65705-F (prior Permit no. 53883-F)); SW 1/4 of the NW 1/4 of Section 14, T3S, R66W, 6th P.M., City and County of Denver, Colorado, at a point 1,790 feet from the North line and 750 feet from the West line of said Section 14. Average annual withdrawal of 219 acre-feet in combination with TCMD Well Nos. 4 and 5.
 - iii. TCMD Well No. 3: (Lower Arapahoe Aquifer) (Permit no. 65706-F (prior Permit no. 53882-F); NE 1/4 of the SW 1/4 of Section 14, T3S, R66W, 6th P.M., City and County of Denver, Colorado, at a point 2,040 feet from the South line and 1,550 feet from the West line of said Section 14. Average annual withdrawal of 282 acre-feet in combination with TCMD Well Nos. 1 and 8.
 - iv. TCMD Well No. 4: (Upper Arapahoe Aquifer) (Permit no. 65707-F (prior Permit no. 53884-F); NE 1/4 of the SW 1/4 of Section 14, T3S, R66W, 6th P.M., City and County of Denver, Colorado, at a point 2,020 feet from the South line and 1,550 feet from the West line of said Section 14. Average annual withdrawal of 219 acre-feet in combination with TCMD Well Nos. 2 and 5.
 - v. TCMD Well No. 5: (Upper Arapahoe Aquifer) (Permit no. 65708-F (prior Permit no. 55266-F); SW 1/4 of the NE 1/4 of Section 14, T3S, R66W, 6th P.M.,

City and County of Denver, Colorado, at a point 2,250 feet from the North line and 1,730 feet from the East line of said Section 14. Average annual withdrawal of 219 acre-feet in combination with TCMD Well Nos. 2 and 4.

- vi. TCMD Well No. 6: (Laramie-Fox Hills Aquifer) (Permit no. 65709-F (prior Permit no. 55863-F); SW 1/4 of the NE 1/4 of Section 14, T3S, R66W, 6th P.M., City and County of Denver, Colorado, at a point 2,210 feet from the North line and 1,770 feet from the East line of said Section 14. Average annual withdrawal of 399 acre-feet in combination with TCMD Well No. 7.
- vii. TCMD Well No. 7: (Laramie-Fox Hills Aquifer) (Permit no. 59200-F); SE 1/4 of the NE 1/4 of Section 15, T3S, R66W, 6th P.M., City and County of Denver, Colorado, at a point 2,530 feet from the North line and 740 feet from the East line of said Section 15. Average annual withdrawal of 399 acre-feet in combination with TCMD Well No. 6.
- viii. TCMD Well No. 8: (Lower Arapahoe Aquifer) (Permit no. 60703-F); NW 1/4 of the SW 1/4 of Section 15, T3S, R66W, 6th P.M., City and County of Denver, Colorado, at a point 1,400 feet from the South line and 785 feet from the West line of said Section 15. Average annual withdrawal of 282 acre-feet in combination with TCMD Well Nos. 1 and 3.
- f. Source: Nontributary ground water in the Denver Basin in the Upper Arapahoe, Lower Arapahoe and Laramie-Fox Hills aquifers as noted above.
- g. Amount: Town Center owns the rights to a total average annual withdrawal of 380 acre-feet of nontributary ground water in the Upper Arapahoe, Lower Arapahoe and Laramie-Fox Hills aquifers decreed in consolidated Case Nos. 82CW488 and 84CW030. Town Center may purchase additional rights to nontributary ground water decreed in consolidated Case Nos. 82CW488 and 84CW030 and may use such additional nontributary ground water rights for the augmentation plan described herein.

Decreed uses: All beneficial uses including augmentation and replacement, and including the right to use 98% of the amount withdrawn to extinction by reuse, successive use and disposition. Water returned after use to First Creek from the nontributary groundwater diversions may be used for augmentation and replacement. The method for determining the amount of such return flows is set forth in this decree.

¹ Town Center may withdraw up to a total of 380 acre-feet of water on an average annual basis from the above-referenced aquifers in any combination, subject to the limitations of the permits for the TCMD Wells.

15. Statement of plan for augmentation:

- a. Location of depletions. The Green 15 Pond Well, Green Valley Ranch Alluvial Well #1 and #2 and the Green Valley Ranch Alluvial Well Field wells will deplete First Creek at or above the point where First Creek crosses the west Section line of Section 15, T3S, R66W of the 6th P.M.
- b. Timing of depletions. Town Center shall employ a "Glover" analysis to determine monthly depletion factors for Green 15 Pond Well, Green Valley Ranch Alluvial Well #1 and #2, and any Alluvial Well Field well added to the plan for augmentation pursuant to paragraph 13.c. Although there are various methods for applying a Glover analysis, the method to be used in this case shall represent a no-flow boundary which requires the following parameters: (i) a boundary condition for the alluvial aquifer indicating that the boundary constitutes a "no-flow" condition; (ii) the width of the aquifer on the side of the river where the well is located, commonly referred to as "W"; (iii) the distance from the river to the location of the well, commonly referred to as "X"; (iv) the transmissivity of the aquifer between the well and the river, commonly referred to as harmonic "T"; and (v) the specific yield of the aquifer, commonly referred to as "S". The aquifer parameters for the Green 15 Pond and Green Valley Ranch Alluvial Well #1 and #2 are set forth in Table 1 below.

Table 1 - Glover	Analysis	- Town	Center	Pond 1	5 Well	and Alluvial
Wells 1 and 2						

Data			
Parameter	Alluvial Wells 1 and 2	Pond 15 Well	Comments
Dist to Stream (ft)	100	265	Distance less than 100 ft for Alluvial Wells 1 and 2, used 100 ft; used centroid distance for Pond 15 Well
Dist to Bound (ft)	2300	2000	Based upon LRE alluvial aquifer mapping
Transmisivity (gpd/ft)	25000	15000	Based upon LRE interpretation of alluvial well pumping test and LRE aquifer thickness mapping
Specific Yield	0.2	0.2	

Depletion Patterns

	Alluvial We	ells 1 and 2	Pond 15 We	ell
Month	Monthly Depletion Factor	Cumulative Depletion (%)	Monthly Depletion Factor	Cumulative Depletion (%)
1	0.872	87.2	0.5400	54.00
2	0.086	95.8	0.2500	79.00
3	0.017	97.5	0.0600	85.00
4	0.01	98.5	0.0300	88.00
5	0.008	99.3	0.0300	91.00
6	0.007	100	0.0200	93.00
7			0.0100	94.00
8			0.0200	96.00
9			0.0100	97.00
10			0.0100	98.00
11			0.0100	99.00
12			0.0100	100.00

Table 1 also sets forth the monthly depletion factors for pumping and evaporation from the Green 15 Pond, and for pumping from the Green Valley Ranch Alluvial Well #1 and #2, calculated using the Glover analysis and the aquifer parameters in Table 1. Pumping from Green 15 Pond Well, Green Valley Ranch Alluvial Well #1 and #2, and any Alluvial Well Field well added to the plan for augmentation pursuant to paragraph 13.c, will be metered. The monthly depletive effect of pumping the wells and pond evaporation from the Green 15 Pond, as set forth in

Paragraph 12.c. below, will be lagged to First Creek using the depletion factors in Table 1.

c. Evaporative depletions from Green 15 Pond. The Green 15 Pond is approximately 1.2 surface acres in size. Evaporation from the Green 15 Pond is estimated to average 4.5 acre-feet per year. Monthly evaporation amounts are calculated to be as follows (in acre-feet):

Month	Green 15 Pond Evaporation (5)
January	0.14
February	0.16
March	0.25
April	0.41
May	0.54
June	0.65
July	0.68
August	0.61
September	0.45
October	0.32
November	0.18
December	0.14

4.50

d. Replacement of depletions: The withdrawal and use of water from the Green 15 Pond Well, Green Valley Ranch Alluvial Well #1 and #2, and any Alluvial Well Field well added to the plan for augmentation pursuant to paragraph 13.c, and the evaporative losses from the Green 15 Pond will result in delayed depletions to First Creek that must be replaced when the depletions are out of priority. Under the plan for augmentation, Town Center will replace out-of-priority depletions in time, location and amount. 100% of the water pumped from the wells and 100% of the evaporative losses from the pond will be considered to be the depletions to First Creek. The lagged depletions will be determined by multiplying the amount of water pumped from each of the wells and the evaporative losses from the pond by the depletion factors for the respective structure set forth in Table 1. When out-of-priority, the depletions will be replaced with nontributary and alluvial water return flows from irrigation of the Green Valley Ranch Golf Course and from irrigation of the streetscape within the Green Valley Ranch North development. Any remaining out-of-priority depletions will be replaced with

nontributary water pumped from the TCMD Wells to First Creek at or above the point where First Creek crosses the west section line of Section 15, T3S, R66W of the 6th P.M. The amount of nontributary water pumped from the TCMD Wells and delivered directly to First Creek for augmentation shall be metered and accounted for separately from water that is pumped from the TCMD Wells for irrigation or other decreed uses by Town Center.

e. Timing and Amount of Golf Course Irrigation Return Flow: Water applied to the Green Valley Ranch Golf Course for irrigation will be measured with meters. Water applied to golf course irrigation that is not consumed will return to First Creek. Under this plan for augmentation, the amount of golf course irrigation return flows to First Creek shall be determined by multiplying the amount of golf course irrigation water applied times the calculated annual return flow percentage. Town Center shall determine the current annual return flow percentage by calculating the average percentage of the previous three years. Irrigation water applied is assumed to be 95% of irrigation water pumped (5% spray loss). ²Total water applied will be calculated as the sum of irrigation water applied plus effective precipitation measured at the Denver Stapleton Airport climate station. The modified Blaney-Criddle method will be used to calculate the potential consumptive use of the lawn grass with climatological data from the Denver Stapleton Airport station, six inch root depth, 45 degree mean temperature for start and end growth dates, and the following growth factors³:

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0.00	0.00	0.00	1.65	1.35	1.25	1.00	1.00	1.25	1.30	0.00	0.00

Total potential consumptive use for each month will be determined by multiplying the irrigated area times the monthly potential consumptive use.

The deep percolation as a percent of water applied will be calculated using the relationships for computing deep percolation developed by Spronk (see Figure 1 attached hereto). The quantity of deep percolation will be calculated by multiplying the ratio of deep percolation to total water applied times the amount of irrigation water applied. Deep percolation will then be reduced by the amount of tree canopy area. As an alternative to calculating the annual return flow percentage as described above, Town Center may annually elect to assume that 15% of the irrigation water applied to Green Valley Ranch Golf Course is not consumed and returns to First Creek on an annual basis. The monthly

² Five percent spray loss is considered appropriate for sprinkler irrigation in Case numbers 89CW198, 93CW033, and 93CW110.

³ Growth factors derived by Spronk Water Engineers, Inc. for Arapahoe Water and Sanitation District and Hi Plains Land and Cattle Company in 1986.

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accretions to First Creek from golf course irrigation return of North Courty District Court 19th In to the following lagging pattern based on a Glover analysis of 120 independent irrigation areas of the golf course (18 fairways, one par three executive course, and one practice area).

Table 2: Glover Analysis Cumulative Accretion Pattern of Golf Course IRFs to First Creek

						Yea	ur 1						Year 2	Year 3
Month	1	2	3	4	5	6	7	8	9	10	11	12	24	36
Cumulative														
Accretion %	42	63	72	77	81	84	86	88	90	91	92	93	98	100

In the event of an expansion or reconfiguration of the Green Valley Ranch Golf Course, the irrigation return flow accretion pattern for any additional or reconfigured areas will be recalculated using a Glover analysis to incorporate the revised lagged return flow pattern.

ĺ. Timing and Amount of Streetscape Irrigation Return Flow Calculation: Water applied to streetscape within the Green Valley Ranch North development will be measured with meters. The streetscape is bordered by streets and gutters and typically includes right-of-way landscaping and medians. Two percent of the water applied for irrigation of streetscape is estimated to return to First Creek within the same month in the form of surface runoff. Therefore, under this plan for augmentation, monthly surface return flows from such irrigation will be calculated by multiplying the amount of water pumped for such irrigation in a given month times 0.02. For purposes of this decree, the Court finds that it is reasonable to assume that 15 percent of the water applied to streetscape within the Green Valley Ranch North development for irrigation is not consumed and returns to First Creek as subsurface return flows. Under this plan for augmentation, the amount of subsurface return flows to First Creek for streetscape irrigation within the Green Valley North development will be calculated by multiplying 0.15 times the amount of the water pumped for such irrigation. The monthly accretions to First Creek from streetscape irrigation return flows will be lagged according to the following lagging pattern based on a Glover analysis of 14 irrigation areas weighted by irrigation area. If water is applied to parks. schools or trails, the same methodology will be used to calculate lagged

⁴ Exhibit I attached hereto shows the aquifer parameters and the lagged accretion patterns for each irrigation area used to derive the cumulative accretion pattern shown in Table 2.

⁵ Exhibit 2 attached hereto shows the aquifer parameters and the lagged accretion patterns for each irrigation area used to derive the cumulative accretion pattern shown in Table 3.

accretions.

Table 3: Glover Analysis Cumulative Accretion Pattern of Streetscape IRFs to First Creek

		-		·		Ye	ar 1		·				Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
Month Cumulative	1	2	3	4	5	6	7	8	9	10	11	12	24	36	48	60	72	84	96
Accretion %	13	27	35	41	47	51	55	58	61	64	66	68	82	89	93	96	98	99	100

g. Two percent relinquishment: Town Center will relinquish two percent of the nontributary water withdrawn from the TCMD Wells to First Creek.

CONCLUSIONS OF LAW

- 16. The foregoing findings of fact are incorporated herein to the extent they constitute conclusions of law.
- 17. This court has jurisdiction over the subject matter of these proceedings and over all who may be affected thereby, whether they have appeared or not. Sections 37-92-302 and 37-92-304(6), C.R.S.
- 18. Timely and adequate notice of the pendency of this action was given in the manner provided by law. Section 37-92-302(3), C.R.S.
- 19. No injury will occur to any owners of or persons entitled to use water under a vested or decreed conditional water right as a result of the plan for augmentation approved herein. Section 37-92-305, C.R.S.
- 20. The Applicant has fully complied with all requirements and met all standards and burdens of proof, including but not limited to those in Sections 37-92-103(3)(a), 37-92-103(4), 37-92-103(6), 37-92-103(9), 37-92-302, 37-92-303, 37-92-304 and 37-92-305, C.R.S., and is, therefore, entitled to this decree confirming conditional underground water rights for the Green 15 Pond Well, Green Valley Ranch Alluvial Well #1 and #2, and the Green Valley Ranch Alluvial Well Field and approving the plan for augmentation described herein.

RULING OF WATER REFEREE, JUDGMENT AND DECREE

- 21. The foregoing findings of fact and conclusions of law are incorporated herein.
- 22. The Application in this case is hereby granted, subject to the terms and conditions set

forth herein.

- 23. Pursuant to C.R.S. § 37-92-305(8), the State Engineer shall curtail all out-of-priority diversions, the depletions from which are not replaced pursuant to the augmentation plan approved herein so as to prevent injury to vested water rights.
- 24. In order to prevent injury to other decreed water rights, the following terms and conditions shall apply to the plan for augmentation approved herein:
 - a. Depletions and accretions to First Creek will be calculated in accordance with the methodologies described in paragraph 15 above. When the depletions from the Green 15 Pond and Well, Green Valley Ranch Alluvial Well #1 and #2, and any Green Valley Ranch Well Field well added to this plan for augmentation pursuant to paragraph 13.c occur when there is a call senior to February 13, 2004, such out-of-priority depletions shall be replaced as provided in this decree by Town Center in time, location and amount according to the calculations described above with the nontributary water or return flows described above, at or above the point where First Creek crosses the West Section line of Section 15, T3S, R66W of the 6th P.M.
 - b. The amount diverted from the Green 15 Pond Well, Green Valley Ranch Alluvial Well #1 and #2, and any Alluvial Well Field well added to the plan for augmentation pursuant to paragraph 13.c, will be measured weekly. The amount of depletion from the Green 15 Pond Well and the Green Valley Ranch Alluvial Well #1 and #2 is equivalent to the amount diverted from the wells after the depletion factors set forth herein are applied. The amount of evaporative depletion from the Green 15 Pond is equivalent to the amount of evaporation from the pond after the depletion factors set forth herein are applied. All depletions resulting from diversions of the Green 15 Pond Well, Green Valley Ranch Alluvial Well #1 and #2, and any Alluvial Well Field well added to the plan for augmentation pursuant to paragraph 13.c, and all depletions resulting from evaporation from the Green 15 Pond, will be replaced when out of priority.
 - c. Town Center shall install and maintain any meters, gauges, or other measuring devices and report at reasonable times to the Division Engineer the readings of such meters, gauges, or other measuring devices as deemed necessary by the State Engineer/Division Engineer for administration of the plan for augmentation and water rights decreed herein.
 - d. Except as provided in subsection e of this paragraph 24, Town Center shall perform monthly accounting and maintain accounting records of its water use

under this decree, including water pumped from the nontributary TCMD Wells. Town Center shall submit this accounting information to the Division Engineer monthly. The accounting shall include pumping, evaporation, lagged depletions, amount and location of replacement water. On an annual basis, Town Center shall submit to the Division Engineer either a statement that it elects to assume a Golf Course irrigation return flow percentage of 15% or a calculation of the annual return flow percentage in accordance with the terms of paragraph 15.e of this decree. A sample return flow percentage calculation form is attached hereto as Exhibit 3.

- e. During the months of July, August and September, Town Center shall perform weekly accounting of out-of-priority depletions and replacements and monthly reporting. During these three months, out of priority depletions will be balanced on a weekly basis to within 0.5 acre-feet and fully balanced on a monthly basis.
- Town Center will provide copies of accounting sheets to objectors in this case ſ. upon written request and payment of reasonable copying charges by the objector. An accounting form has been prepared and is attached hereto as Exhibit 4. The Court finds that such accounting form is adequate to properly account for the water diverted under this decree. Town Center may without Court consent in the future propose additional or alternate accounting methods that are satisfactory to the Office of the State Engineer provided, in such event, that Town Center will provide written notice to all Objectors in this case and the Objectors shall be provided with an opportunity to comment on additional or alternative accounting methods. In the event that any Objector disagrees with the additional or alternative accounting methods, any Objector in this case may file a written objection with the Court, and the Court shall set a hearing to resolve the dispute. In any such hearing, Town Center shall have the burden to prove the additional or alternative accounting methods are necessary and adequate to properly account for the water diverted under this decree.
- g. Town Center will relinquish and not consume two percent of the nontributary water withdrawn from the TCMD Wells to First Creek.
- h. Town Center may not divert alluvial ground water from the Green 15 Pond Well, Alluvial Well #1 or Alluvial Well #2 until it has installed the facilities needed to deliver the nontributary augmentation water directly to First Creek.
- i. When applicable, Town Center shall bear such transit loss as may be reasonably and lawfully assessed by the Division Engineer for the carriage of water through stream reaches in the same manner as for other water users.

- Approval of the plan for augmentation described herein is subject to the retained 25. jurisdiction of the court for reconsideration of the question of injury to the vested rights of others for a period of ten years from the date the decree herein is entered. The Court's retained jurisdiction may be invoked by any party by filing a proper petition with the Court and serving the non-petitioning parties. The petition for reconsideration shall be made in good faith, under oath, and shall set forth with particularity the factual basis upon which the requested reconsideration is premised, together with proposed decretal language. The party who files such a petition shall have the initial burden of establishing that material injury will occur to their water rights by operation of the plan for augmentation. Upon such a showing of injury, the burden of showing non-injury shifts to the Applicant, and the Court may require additional or modified protective conditions to prevent injury. Such additional or modified conditions may, if adequately proved, be more restrictive than the terms and conditions of this decree. Except to the extent the Court has retained jurisdiction this judgment and decree is final. The ten year period of retained jurisdiction described above may be extended upon further decision by the water judge that the nonoccurrence of injury shall not have been conclusively established.
- 26. The Court also specifically retains jurisdiction perpetually over this Decree to review the availability of the nontributary ground water described in paragraph 14, above, as a source of replacement water in this plan for augmentation.
- 27. The application in this case was filed in 2004, and the priorities awarded to water rights described in this decree shall be administered as having been filed in that year, and shall be junior to all priorities filed in previous years. As between water rights filed in the same calendar year, priorities shall be determined by the dates of appropriation for said water rights, and shall not be affected by the date of entry of decree for said water rights.
- 28. If Town Center wishes to maintain the conditional water rights confirmed in this matter, it shall file an application for finding of reasonable diligence or to make the conditional water rights absolute on or before the last day of the month of 2015.
- 29. A copy of this decree shall be filed with the Division Engineer and the State Engineer.
- 30. The State and Division Engineer shall administer this decree in accordance with the terms and conditions set forth herein.
- 31. There was no trial in this matter and no factual issues were litigated. The findings of fact, conclusions of law and decree were completed as the result of substantial discussions, negotiations and compromises by, between and among the Applicant and the Objectors pertaining to all parts of the findings, conclusions and decree. It is specifically

understood and agreed by the parties hereto, and found and concluded by the Court, that the acquiescence of the parties to a stipulated decree under the specific factual and legal circumstances of this contested matter and upon the numerous and interrelated compromises reached by the parties shall never give rise to any argument, claim, defense or theory of acquiescence, waiver, bar, merger, stare decises, res judicata, estoppel, laches, or otherwise, nor to any administrative or judicial practice or precedent, by or against any of the parties hereto in any other matter, case or dispute, nor shall testimony concerning such acquiescence of any party to a stipulated decree herein be allowed in any other matter, case or dispute by or against any of the parties hereto. All parties stipulate and agree that they do not intend the findings, conclusions and decree to have the effect of precedent or preclusion on any factual or legal issue in any other matter. The parties further stipulate and agree that they each reserve the right to propose or to challenge any legal or factual position in any other plan for augmentation or other matter filed in this or any other court without limitation by these findings of fact, conclusions of law and decree.

Dated: free Contile , 2009.

John Cowan Water Referee

Water Division No. 1

THE COURT DOTH FIND THAT NO PROTEST WAS FILED IN THIS MATTER, THEREFORE, THE FOREGOING RULING IS CONFIRMED AND APPROVED, AND IS HEREBY MADE THE JUDGMENT AND DECREE OF THIS COURT.

Dated: <u>9-8-09</u>

By the Court:

James F. Hartmann

Water Judge

Water Division No. 1

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APPENDIX D (Revised 9/28/05); Glover analysis of Green Valley Ranch Golf Course irrigation return pattern weighted by Fairway AND Glover analysis of Green 15 Pond depiction pattern

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Appendix E (Rovised 9/28/05): Glover analysis of Green Valley Ranch Streetscape irrigation return pattern weighted by Irrigation Area

Parameters																
Irrigated Area	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Filing 31	Filing 35	Filling 36	Filing 40	Filing 46	Filing 47	Filing 58		
Distance to stream (ff)	1500	2600	750	1800	1400	1800	1800	450	400	900	2500	2300	3500	2900		
Distance to boundary (It)	3100	2500	4500	400	750	10000	-	3600	3600	350	10000	10000	10000	10000		
Thickness	20	50	50	15	15	4	ю	5	5	9	4	'n	4	2		
Alpha	0.155	0.155	0.155	0.11625	0.11625	0.0218	0.03875	0.11625	0.11625	0.03875	0.0164	0.027	0.004	0.02575	Total Acres	
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k(fl/sec)	0.00155	0.00155	0.00155	0.00155	0.00155	0.00109	0.00155	0.00155	0.00155	0.00155	0.00082	0.00108	0.0002	0.00103		
Sy.	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
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0.041875764 -1.3891E-16 0.002824 46.88 0.064817896 -2.64826E-4 0.006496 49.39 0.019672553 -3.17327E-4 0.004346 49.39 0.119672553 -3.17337E-1 0.04346 55.98 0.119672553 -3.1338E-1 0.06152 55.98 0.119672553 -3.1338E-1 0.061752 55.98 0.11967256 -3.1338E-1 0.061752 55.98 0.11967257 -3.1338E-1 0.061752 55.98 0.11967258 -3.1338E-1 0.061752 55.98 0.11967259 -3.1338E-1 0.061752 55.98 0.221722566 0.1348E-1 0.14845 65.00 0.32419778 0.14846 0.14846 65.32 0.3418673 2.4488E-1 0.14845 65.33 0.4940405 1.2488E-1 0.34845 70.73 0.4940405 2.24748E-1 0.34845 70.73 0.43704466 2.43942 0.34849 70.73 0.43704467 2.4488E-1	-1 2325E-19
0.09491174728 0.0911174728 0.1991174728 0.1991174728 0.1996228 0.1996228 0.1996228 0.249966967 0.2429968673 0.242996873 0.242998873 0.242998873 0.242998873 0.242998873 0.242998873 0.242998874 0.24299874 0.242998874 0.24299874 0.2429874 0.24299874 0.24299874 0.24299874 0.24299874 0.24299874 0.24299874 0.24299874 0.24299874 0.24299874 0.24299874 0.24298744 0.24	-1.3691E-16
0.19911747252 8.1758E-14 0.028299 51 85 0.149690CS38 0.11967252 0.149690CS38 0.149690CS 0.14969	-2.64835E-14
0.11807.232 0.11807.2323 0.2738.236653 0.2738.236665 0.2738.236666 0.2738.236666 0.2738.23666 0.2738.23666 0.2738.23666 0.2738.2366 0.2738.2366 0.2738.238 0.2738.236	8.91792E-14
0.211724223 0.217242248 0.273825866 0.2342286723 0.24487723 0.24288723 0.24288723 0.24343783 0.24288723 0.24343783 0.24288723 0.24343783 0.24288723 0.24243783 0.24243783 0.2422323 0.24243783 0.24231266 0.24231266 0.24231266 0.24231266 0.24231266 0.24231266 0.24231266 0.24231266 0.24231266 0.24231266 0.24231266 0.2428623 0.24286273 0.242873315 0.2428	2.57b9E-14
0.211724252 0.24236263 0.24236673 0.234236673 0.234236673 0.234236673 0.234236673 0.234236673 0.23423673 0.23423673 0.23423673 0.23423673 0.23423673 0.23423673 0.23423673 0.23423673 0.23423673 0.23423673 0.23423673 0.2452449 0.23223262 0.23423673 0.2468660 0.246244 0.23423623 0.2468660 0.246244 0.23423623 0.2468660 0.2462449 0.23232626 0.2462449 0.23232626 0.2462449 0.2342626 0.2462449 0.2342626 0.2462449 0.2422624 0.2462449 0.2422624 0.2462449 0.2422624 0.2462449 0.2422624 0.2462449 0.2422624 0.2462449 0.24624	4.15631E-12
0.24290E963 0.2728E5966 0.20728E5966 0.20728E596 0.20728E5966 0.20728E5966 0.20728E596 0.20728E596 0.20728E596 0.20728E596 0.20728E596 0.20728E596 0.20728E596 0.20728E596 0.20728E596 0.20728E5966 0.20728E596 0.2	3.17337E-11
0.273825886 8.02063E-10 0.158356 62 04 0.3042980772 9.47789E-00 0.186462 65.3.3 0.30437833 2.46457E-00 0.186462 65.3.3 0.304343783 2.46457E-00 0.186462 66.28 0.4919772 1.25245E-07 0.305973 67.15 0.4645785273 67 0.305973 67.15 0.4645785273 67 0.305973 67.17 0.488427273 1.18186E-06 0.39734 70.10 0.522312807 6.20992E-07 0.38733 70.73 0.523213267 2.83857E-06 0.48689 70.73 0.52321360 1.38857E-06 0.48689 70.73 0.52321360 1.38857E-06 0.48689 70.73 0.52321360 1.38857E-06 0.587485 72.92 0.52031262 1.38857E-06 0.587485 72.92 0.52031263 1.38857E-06 0.587485 72.92 0.52031263 1.38857E-06 0.587485 72.92 0.52031263 1.38857E-06 0.587485 72.92 0.52031263 0.000255-00 0.0002030 0.40039 72.92 0.52031263 0.0002030 0.74025 77.13 0.781784348 0.00023230 0.74025 77.13 0.78178438 0.00023230 0.74025 77.73 0.884318572 0.000682329 0.917745 77.28 0.884318572 0.000862323 0.917745 78.50 0.86055033 0.00026323 0.917745 78.50 0.86055033 0.00026323 0.917745 78.50 0.86055033 0.00026323 0.917745 78.50 0.950068875 0.00086232 0.917745 78.50 0.950068875 0.00086232 0.917745 78.50 0.950068875 0.00086232 0.917745 78.50 0.950068875 0.00086232 0.917745 78.50 0.950068875 0.00086232 0.917745 78.50	1.79072E-10
0.394298773 297778E-09 0.186462 653.23 0.363437732 264678E-09 0.248244 653.43 0.394962733 6.64536E-08 0.248244 65.34 0.446755227 3.24658E-08 0.248249 67.15 0.446755227 3.2465E-07 0.336673 69.44 0.45004057 3.2465E-07 0.336673 69.44 0.52231266 0.39734 68.73 0.54727307 3.2243E-07 0.33734 69.74 0.54727307 3.2243E-07 0.42839 70.73 0.54727307 3.2583E-08 0.42839 70.73 0.5772742 0.5765E-08 0.518207 71.89 0.57707928 0.50735E-08 0.518207 71.89 0.57707948 0.50735E-08 0.50733 72.42 0.567014967 2.8749E-08 0.50733 72.42 0.567014967 2.8749E-08 0.50733 72.42 0.567014967 2.8749E-08 0.50733 72.42 0.57707948 0.50735E-08 0.50733 72.42 0.57707948 0.000235E-08 0.50733 72.42 0.776707948 0.000235E-08 0.50733 75.09 0.776707948 0.00023523 0.84094 77.73 0.8486316 0.00023623 0.84094 77.73 0.8486317 0.000084339 0.84094 77.73 0.869635073 0.00008433 0.84094 78.74 0.85008887 0.000124434 1.000256	8.02063E-10
0.3344197772 9.47198E 09 0.215500 64.33 0.3344197772 9.47198E 09 0.245244 66.34 0.3344197782 0.34534528 0.34534528 0.34534528 0.3453656.08 0.245244 66.34 0.3453623 0.441974015 2.4458E-71 0.359573 67.15 0.47540005 0.3458E-71 0.359573 67.15 0.47540005 0.345231285 0.34972E-07 0.353633 0.57737807 3.252332E-06 0.455639 77.13 0.547237807 3.25232E-06 0.455639 77.13 0.547237807 3.2496E-06 0.455639 77.13 0.547237807 3.2496E-06 0.455639 77.13 0.5473312825 0.547362 0.458492 77.13 0.54737312825 0.547362 0.458492 77.428 0.4759691877 77.13 0.547079428 0.45355E-05 0.56104789 77.428 0.547367 77.13 0.547367 77.13 0.547367 77.13 0.547367 77.13 0.547079428 0.547362 0.547452 0.547	2.97779E-09
0.363437833 2.64871E-08 0.22444 855.34 0.39182633 2.46871E-08 0.305973 67.15 0.446755273 3.21458E-07 0.305973 68.73 0.4867223 1.204972E-07 0.305973 68.73 0.48682723 1.18186E-08 0.397349 70.10 0.522312807 2.2031862 69 0.428408 70.10 0.522312807 2.20302E-08 0.428697 70.10 0.5232132807 2.20302E-08 0.428697 71.33 0.523312623 2.30502E-08 0.428697 71.33 0.523312623 2.30502E-08 0.52337 72.92 0.523312623 2.30502E-08 0.52337 72.92 0.52331263 2.30502E-08 0.52337 72.92 0.52331263 2.30502E-08 0.52337 72.92 0.52331263 0.00026263 0.74025 77.13 0.751794348 0.00026323 0.74025 77.13 0.781784348 0.00026323 0.846521 77.71 0.864318572 0.00026323 0.917745 77.77 0.864318572 0.00026323 0.917745 77.28 0.864318572 0.00026323 0.917745 77.28 0.864318572 0.00026323 0.917745 78.50 0.950068575 0.00026323 0.917745 78.50 0.950068575 0.000862323 0.917745 78.50 0.950068575 0.000862323 0.917745 78.50 0.950068576 0.00192873 1.2223 78.91	9.47183E-09
0.49196232 0.446755227 0.446755227 0.446755227 0.446755227 0.446755227 0.446755227 0.446755227 0.446755227 0.446755227 0.446755227 0.446755227 0.446755227 0.446755227 0.446755227 0.446755227 0.44675223 0.44675223 0.54723626 0.5272367 0.527237 0	2.64871E-08
0.45704055 0.457004055 0.457004055 0.457004055 0.457004055 0.457004055 0.457004055 0.457004055 0.457004055 0.45700405 0.457004055 0.4570040	6.64536E-08
0.478004055 6.3434026-07 0.33803-0 69.73 0.488402123 1.18786E-06 0.428409 69.73 0.488402123 1.18786E-06 0.428409 69.73 0.488402123 1.18786E-06 0.428409 70.10 0.5223278007 3.288935-06 0.428609 70.13 0.57039132 0.57039132 1.38837E-06 0.428697 71.33 0.57039132 1.38837E-06 0.428697 71.33 0.57039132 1.38837E-06 0.547465 7.242 0.56569423 1.38837E-06 0.547463 7.340 0.57079423 1.38837E-06 0.587769 7.386 0.57079429 1.38937E-06 0.587769 7.386 0.788399 0.57479 7.389 0.575799 1.38937E-06 0.587769 7.470 0.788399 0.74409 7.4709 7.547 7.590 0.78839915 0.000012909 0.74409 7.742 7.590 0.78812891173 0.00012909 0.74409 7.742 7.590 0.78812891173 0.000028939 0.74409 7.742 0.88828913 0.000028939 0.74409 7.771 3.000012909 0.944097 7.771 3.00008439 0.944097 7.771 3.00008439 0.944097 7.771 3.00008439 0.944097 7.887 0.000882359 0.947477 7.89 0.000882359 0.947477 7.89 0.000882359 0.947477 7.89 0.000882359 0.947877 7.89 0.94691377 0.0008439 0.00012493 0.9469137 1.000882359 0.947477 7.89 0.000882359 0.947877 7.89 0.94691377 0.0008439 0.00012493 0.	1.52045E-07
0.499492123 0.522312807 0.522312807 0.5705311323 0.5705311323 0.5705311323 0.5705311323 0.5705311323 0.5705311323 0.5705311323 0.5705311323 0.5705311323 0.57053132523 0.570532312605 0.58053522 0.58053522 0.58053522 0.58053522 0.58053522 0.58053522 0.58053522 0.58053523 0.580552523 0.580552523 0.580552523 0.580552523 0.580552523 0.58052523 0.580525233 0.5805252	6.34912E-07
0.523231266 0.54232925 0.5423231266 0.5423292 0.5423132225 0.5423132225 0.5423132225 0.5423132225 0.5423132225 0.5423132225 0.5423132225 0.542356-05 0.542356-05 0.542356-05 0.542356-05 0.54236-05 0.742256-05 0.74226-05	1.18189E-06
0.5472378077 3.268325-66 0.458639 70.73 0.5670584128 0.572418-06 0.468647 71.83 0.5617058428 0.575418-06 0.468647 71.89 0.6450648223 1.358875-66 0.54465 72.24 0.6450648223 1.358875-66 0.54465 72.24 0.657044067 2.28795-66 0.54465 72.24 0.657044067 2.28795-66 0.54465 72.24 0.715501675 2.8795-66 0.544049 77.34 0.715501675 7.471225-66 0.58075-6 74.70 0.715501675 7.471225-66 0.56074 77.54 0.715501675 0.000156803 0.766284 77.54 0.7165018717 0.000165803 0.766284 77.54 0.7165018718 0.000203029 0.840975 77.13 0.8446318 0.000203029 0.840975 77.71 0.8446318 0.000264329 0.941745 77.71 0.8464318 0.000264329 0.94777 78.56 0.950685603 0.00012444 1.000226 78.74 0.95008897 0.000124494 1.000226 78.74 0.95008897 0.000124494 1.000226 78.74 0.95008897 0.000124494 1.000226 78.74	2.089095-06
0.5703511322 0.5615064923 0.5615064923 0.5615064923 1.35857E-06 0.5615064923 1.35857E-06 0.5615064923 1.35857E-06 0.5615064923 0.5615064923 1.35857E-06 0.561506492 0.7517073428 0.751707428 0.751707	3.52833E-06
0.555132527 2.00186E-05 0.576335 72.92 0.567714387 2.87492 2.8774367 2.877444447 2.877444447 2.877444447 2.877444447 2.877444447 2.877444447 2.877444447 2.877444447 2.877444447 2.877444447 2.877444447 2.87744447 2.877444447 2.877444447 2.877444447 2.877444447 2.877444447 2.877444447 2.877444447 2.877444447 2.87747 2.87	5.72438E-06
0.65504527 0.657014867 0.657034867 0.657034867 0.75807637 0.7	4.04867E-06
0.657014967 2.8749E-05 0.604789 773.40 0.66657033 2.8749E-05 0.6604789 773.65 0.715501675 2.47122E-05 0.86047 74.28 0.715501675 7.47122E-05 0.86047 74.72 0.73890380 0.74025 75.09 75.09 0.788194173 0.000120039 0.744039 75.47 0.7881924173 0.000120039 0.746294 75.43 0.7881228181 0.000236230 0.7681624 76.81 0.848138285 0.000236230 0.84654 76.83 0.8481316 0.00023632 0.84654 77.71 0.8481316 0.00028438 0.8885 77.71 0.848138285 0.00028438 0.81744 77.71 0.8481386 0.0008438 0.81744 77.71 0.8665565 0.0008438 0.8985 77.71 0.9665565 0.0008438 0.89863 78.74 0.9665565 0.0008438 0.984444 1.000236 0.9665565 0.0008438	2.00136E-05
0.677079428 4.03395E-65 0.68040 77.385 0.68656738 5.4255E-65 0.68041 74.28 0.718390380 5.4255E-65 0.68041 74.70 0.73890380 7.47132E-65 0.687555 75.09 0.789194173 0.000129039 0.740493 75.09 0.788122819 0.000129039 0.740493 75.47 0.788122819 0.000129039 0.740493 75.83 0.842828181 0.000120329 0.741492 76.18 0.84386382 0.000120329 0.84652 76.51 0.84386172 0.000026439 0.846992 77.13 0.84481816 0.00006439 0.941745 77.71 0.84481816 0.00068256 0.941745 77.71 0.8665503 0.000822180 0.946937 78.50 0.9665503 0.00082230 0.97877 78.50 0.9665503 0.00082230 0.97877 78.50 0.946913729 0.00108273 0.97877 78.40 0.946913729 0.0	7 2.8749E-05
0.715501673 5.42525E-05 0.66041 74.28 0.715501675 7.47122E-05 0.887555 74.70 0.7581784438 0.0001210203 0.74629 75.47 0.768194173 0.00015803 0.74629 75.47 0.768194173 0.00015803 0.766284 75.83 0.7681541748 0.000210207 0.791629 76.83 0.845318148 0.000240207 0.791629 77.13 0.845318149 0.00084389 0.88858 77.71 0.84531815 0.00086428 0.91745 77.71 0.8655603 0.00086428 0.95883 77.71 0.96655603 0.00086428 0.95883 78.85 0.96655603 0.00086428 0.95883 78.85 0.96655603 0.00086428 0.95883 78.85 0.96655603 0.00086428 0.95883 78.85 0.96655603 0.00012444 1.000326 78.98	4.03395E-05
0.7150/1875 7.47123E-05 0.887555 74.70 0.73903004 8.88719E-05 0.887555 75.99 0.751794348 0.000129039 0.74029 75.59 0.789194173 0.000159039 0.766234 75.83 0.789194173 0.000159039 0.766234 75.83 0.802593151 0.000241027 0.791629 77.13 0.84263743 0.000259289 0.846927 77.13 0.842637451 0.000284289 0.91745 77.71 0.842630772 0.000084289 0.91745 77.71 0.862636753 0.000084289 0.98494 77.77 0.96655653 0.000084289 0.98494 77.77 0.96655653 0.000084289 0.98494 77.77 0.96655653 0.000084789 0.986839 0.96655673 0.0000821189 0.986839 0.96655673 0.0000821189 0.986839 0.96655673 0.00012444 1.000326 0.986913772 78.50 0.986913729 0.001124434 1.000326	5.54255E-05
0.759/91340 918/1792 91 91 91 91 91 91 91 91 91 91 91 91 91	7.47123E-05
0.788194173 0.000/65883 0.786284 75.83 0.78812284173 0.0000/2027 0.791829 76.18 0.78812289151 0.000023023 0.84692 77.13 0.84281748 0.000028590 0.84692 77.13 0.84281916 0.00008439 0.941745 77.73 0.84481916 0.000088258 0.941745 77.73 0.0000821189 0.941745 77.73 0.946821917 0.000084229 0.947877 78.50 0.950088919 0.000124494 1.0000228 78.25 0.950088919 0.000124494 1.0000228 78.34 0.95008328 0.00012493 0.000012493 0.000012493 0.000012493 0.000012493 0.00000000000000000000000000000000000	9.89719E-05
0.786122549 0.00021020 0.791626 76.18	0.000165803
0.84259151 0.000233233 0.816521 76.51 76.51 76.51 0.818538623 0.8045293 0.840575 76.83 0.8404316 0.00044389 0.88858 77.71 0.8443195 0.000464389 0.88858 77.71 0.000694261 0.892893 77.71 0.000694261 0.892893 77.71 0.99655633 0.90655633 0.90065423 0.97877 78.50 0.90655633 0.00012444 1.000326 78.89 0.9012443 0.0012443 1.000326 78.89 0.9012443 0.00112443 1.000326 78.98 0.9969377 0.001012443 0.0012438 78.98 0.9969377 0.0012439 0.0014283 78.98 0.9969377 0.0012439 0.0014283 78.98 0.9969377 0.0016957 0.001288 78.98 0.9969377 0.0016957 0.001288 78.98 0.9969377 0.0016957 0.001288 78.98 0.9969377 0.0016957 0.001288 78.98 0.0016957 0.0016957 0.001288 78.98 0.0016957 0.0016957 0.001288 78.98 0.0016957 0.00	0.000210207
0.8185385.53 0.0000359269.0 0.840975 77.6 8.3 0.834261748 0.000484389 0.88868 77.13 77.13 0.8443181672 0.000684389 0.917445 77.71 77.71 0.864318672 0.000684281 0.917445 77.71 77.71 0.8787893157 0.000684281 0.93494 77.79 78.25 0.96658057 0.000684281 0.956853 78.50 78.50 0.96658053 0.00164444 1.000326 78.50 78.74 0.946913728 0.00169477 1.000326 78.94 0.946913729 0.00169477 1.000326 78.94	0.000263233
0.834261748 0.000389286 0.864992 77.73 0.8494831872 0.000682588 0.7743 0.878783151 0.000682588 0.91774 77.71 0.878783151 0.000682581 0.91774 77.73 0.966550772 0.000681789 0.86853 78.25 0.906655038 0.001664223 0.978777 78.50 0.9060508879 0.001164434 1.002493 78.86 0.94607178 0.00160267 1.027493 78.98 0.946071877 0.0016078 1.027493 78.98 0.946071877 0.0016078 1.027493 78.98	0.000325903
0.84948116 0.00046339 0.88868 77.43 0.084318672 0.000582358 0.917745 77.77 77.77 0.000582358 0.917745 77.77 0.982890772 0.000582116 9.95835 78.50 0.96555033 0.00086221189 0.958235 0.978777 78.50 0.993204534 0.001302873 1.021493 78.98 0.958204534 0.001302873 1.021493 78.98 0.958204539 0.001502873 1.021493 78.21	0.000389265
0.884218575 0.000585288 0.91745 7771 0.882280775 0.000827189 0.958635 78.25 0.96655653 0.000827189 0.9586377 78.50 0.96655653 0.000827444 1.000326 78.50 0.959263879 0.00174244 1.000326 78.50 0.95926739 0.00174577 1.27493	0.000484389
0.872/83151 0.000694261 0.83494 77.98 77.98 78.25 0.08289077 0.000654221 0.00065423 78.25 0.09065423 0.0005423 0.0005423 0.00012444 1.000326 78.74 0.93204534 0.00124434 1.021493 78.98 78.98 0.9460737 1.021493 78.98 78.98 0.04560737 1.021493 78.21 0.045607 1.042283 78.21	0.000582358
0.982890772	0.000694261
0.90655655 0.000864223 0.97877 78.50 0.92008897 0.001124424 1.000326 78.74 0.93204394 0.0011302873 1.021493 78.98 0.94691729 0.00156971 1.042283 79.21	0.000821189
0.920088879 0.001124434 1.000326 78.74 (0.983204534 0.00132873 1.021493 79.21 (0.946013729 0.0015005047 1.042283 79.21 (0.9460137293 79.21	0.000964223
0,933204534	0.001124434
0.946013728 0.00150657 1.042283 79.21	0.001302873
CONTRACTOR OF CO	0.00150857
27 27 28 27 28 27 28 27 28 27 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28	0.001718523

EXHIBIT 2

Apponcix E (Revised 9/28/05); Glover analysis of Green Valley Ranch Streetscape irrigation return pattern weighted by Irrigation Area

rameters															
rrigaled Area	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Filing 31	Filing 35	Filing 36	Filing 40	Filing 46	Filtro 47	Filton 50	
stance to stream (ft)	1900	2600	750	1800	1400	1800	1800	450	, <u>0</u>	900	2500	2300	3500	2900	
distance to boundary (ft)	3100	2500	4500	400	750	10000	-	3600	3600	350	10000	10000	10000	10000	
Frickness	20	23	20	15	15	4	c)	15	5	ın	4	LC	4	٠,	
fa fa	0.155	0.185	0.155	0.11625	0.11625	0.0218	0.03875	0.11625	0.11625	0.03875	0.0164	0.027	000	0.02575	Total Acres
Area (acres)	40	2.5	4.0	5.7	4.0	4.0	2.9	10.3	2.9	3.2	40	6.	17	2.5	424
	1.0	1.0	10	1.0	1.0	1.0	1.0	1,0	1.0	1,0	1.0	10	10	Ç	
(flysec)	0.00155	0.00155	0.00155	0.00155	0.00155	0.00109	0.00155	0.00155	0.00155	0.00155	0.00082	0.00108	0.0002	0.00103	
	0 2.3	0.2	0.2	9.2	0.2	0.2	62	6.5	0.2	0.5	0	0.5	0.0	60	

					ı											
Manth	Area 1	Area 2	Area 3	Area 4	1	Area 6	Area 7	Filing 31	Filing 31 Filing 35 Fiting 36	Fiting 36	Filting 40	Filing 46	Filing 47	Filing 50	% Total Cummulative	Incremental (monthly)
90	6.855099	4,13137	7.244551	10.84944		3.417271644						878937076.0	8 0.001957703	1.082772	79,64	0.21
2	6.884404	4,155819	7.257235	10.8503		3.451647016		5 19.11529	5.327512	6.076939	1753611341	0.982711638	0.002219043	1,102487	79.85	0.21
52	6.912555	4.179341	7.269466	10.85104		3.485201652		9 19.13436	5.332123	6.077248	1.788432527	0.994401596	0.00250344	1.121859	80.05	0.20
23	6.939596	4.201971	7.281258	10,85166		3.517967063						1.005836	0.002811748	1.140897	80.24	0.19
<u>%</u>	6.965572	4 223744	7.292628	10.8522		3.549973135	5 5.318034	4 19,16995	5.340718	6.077748	1.856482173	1 017023677	0.003144782	1.159609	80.42	91.0
55	6.990524	4.244691	7.303591	10.85266		3.581248232	2 5.326207	7 19.18656	5.344721	6.07793		1.027973056		•	80,60	65
56	7 014492	4.254845	7.314161	10.85308	7.597813	3.611819288	8 5.333805	5 19.20243	5.34854	B.078093	1,92247187	-			80.78	0.18
57	7.037517	4.284234	7.324353	10.8534	7.597959	3.641711899	5.34078	3 19.21758	5,352183	6.078232	17	***			80.05	0.17
58	7,059634	4 302889	7.33418	10.85369		3.670950401	ų.							*	25.00	0.00
59	7.080879	4.320836	7.343655	10.85394	7.59818	3 699557951				-4	2 017761988				01.77	0.10
90	7 101287	4 338104	7.352791	10.85415		3 72755EG0					1040E7030E	•			27.10	9.50
3	7 120802	4 354716	7 3515	10.85423		9 7E ADET 200			_		2.0405/0265	- ,			81.43	0.16
	7 130703	4 970890	7 270003	10.05440		0.304040404			7.000000		2,000,000,000				84.158	0.15
70 69	7 157013	4,57,0008	1.510085	10.00449		3.781610160			5.368033	_	2.10884643				81.73	0.15
3 :	7.15/813	4.386U/5	1.378282	10.85452	_	3,808104242		~		Ψ.	2.138316592	-	0.007366431	1.314543	81.87	0.14
7	7.175189	4.400871	7.385178	10,85473		3.833867724	ш,				2.167356135	1.117013017	0.007981412	1.330388	82.01	0.14
65	7.191881	4,415104	7.393791	10.85483		3.859118026		19.31669	5.375898	6.075808	2.195973864	1,12596905	0.008527048	1.345984	82.14	0.13
99	7.207915	4.428798	7.401131	10.85491		3.883871769	5.384417	19.3267	5.378282	6.078841	2.224178433	1.134758467	0.009303608	1.361335	82.27	0.13
29	7,223318	4.441973	7.408209	10.85499		3.908144837	7 5.387644	19.33627	5.380556	6.078869	2.251978334	1 143386258	0.010311322	1,376448	82.40	0.13
58	7.238113	4.454649	7,415033	10.85505	7.598649	3.931952424	5,39063	19.34541	5.382726	6.078893	2.279381898	· -			82.52	0.10
69	7.252326	4.466844	7.421613	10.8551	7.59867	3,955309066	5,393394				2.306397289	ζ	_		82.65	0.12
7.0	7.265978	4.479576	7,427957	10.85514	~	3.978228691				6.078931	2 333032501				89.76	21.0
71	7.279092	4.489865	7,434074	10,85518		4.000724599			ır,	B 078946	2.359295362	1 175374186		•	22.20	2.00
7.2	7.29169	4.500725	7.439972	10.85522	1	4,022809594			5.390451	6.078943	2.385193531	1.184262034		•	82.00	500
73	7 303791	4,511173	7,445659	10.85525		4,044495915			5.392165		2.410734495				24 to 20	
74	7.315415	4.521226	7.451142	10.85527	7,598732	4.065795308		+	5.393801		2 435925577	_			83.20	
75	7.326582	4.530897	7,456429	10.85525	7.59874	4.086719047	5.406149	19.39886	5.395361	6.078983	2.460773933	1.207127137		-	83.31	100
76	7.337308	4.540202	7.461526	10.8553	7.598747	4.107277956	5,407756		5.396849		2.485286552	1214494804			83.41	e e
11	7.347612	4.549154	7.466441	10.85532	7.598752	4,127482432			5 398269		2.509470264	1 221741173			53.57	5 5 5
78	7.357509	4.557767	7.47118	10,85533	7.598757	4.147342463			5.399624	6.079		+		1528443	200	5 6
79	7.367017	4.566054	7,47575	10,85534	7.598761	4.166867655	5.411895		5,400916	6.079004				541089	83.70	200
96	7.37615	4.574026	7.480155	10.85535	7.598764	4.186067242	5.413074		5.402149	6.079007	2.580113856	1.242784348	_	1.553558	83.79	50.0
91	7.384923	4.581696	7.484403	10.85536	7.598767	4.204950112	5,414166	19,43281	5.403325	6.07901	2.603047061	1,249576809			33.83	90°C
82	7.39335	4.589075	7.488499	10.85536	7.598769	4.223524817	5.415176	19.43761	5,404447	6.079012	2.625683153	1,256263062	0.024412416	_	83.97	600
83	7.401445	4.596175	7,492448	10.85537	7.598771	4.241799593	5.416066	19,4422	5.405517	6.079014	2.648028041	1.262845811	0.025621821		34.06	60.0
84		4.603006	7.496256	10 85537	7.598773	4.259782374	5.416969	19,44658	5.406538	6.079016	2.670087492	1,269327666	0.026861385	1,601746	84.14	0.08
35	_	4.609577	7.499927	10 85538	7.598774	4.277480805	5.417769	19.45077	5,407512	6.079018	2.691867132	1.275711148	0.02813084	1,613388	84.22	800
86	7.423867	4.6159	7.503467	10.85538	7.598775	4.294902254	5.418509	19.45476	5.408441	6.079019	2.713372452	1,281998691	0.029429907	1.624875	84.30	800
87		4.621983	7.50688	10.85539	7.598776	4,31205383	5.419194	19.45858	5.409328	6.07902	2.734608807	1.288192647	0.030758291	1.63621	84.38	800
88		4.627835	7,510171	10.85539	7.598777	4.328942386		19.46222	5,410173	6.07902	2.755581426	1.29429529	0.032715684	1.647397	84.46	0.08
83		4.633485	7.513344	10.85539	7.598777	4.34557454	5.420416	19.4657	5.41098	6.079021	2.776295407	1.300308817	0.033501768	1,658439	84.53	800
8		4.638883	7 516404	10,85539	7.598778	4.361956679	5,420959	19.46903	5.41175	6.079021	2.796755727	1,308235353	0.034916213	1.669338	84.51	200
÷.		4.644094	7.519354	10.85539	7.598801	4.378094969	5.421461	19.47221	5.412484	6.079021	2,81696724	1.312076956	0.036358678	1,680098.	84.68	20:0
35		4.649108	7.522198	10.85539	7.598782	4.39399537	5.421927	19.47524	5,413184	6 079022	2.836934684	1,317835613	0.037828817	1.69072	84.75	0.07
93	-	4.653933	7.52494	10.85539	7.598782	4.409663638	5.422357	19.47814	5.413852	6.079045	2.856662681	1.32351325	0.039326273	1,70121	84.82	70.0
94			7.527585	10.85539	7.598782	4.425105339	5.422755	19,4809	5.41449	6.079025	2.876155744	1.329111732	0.040850682	711567	84.89	70.0
95		4.663039	7,530134	10 85539	7.598783	4 440325855	5 423124	10 19254	5 415,000	#C0000	C COC 44 000 TA	January V	10000		0000	200
				-					2000	02020	7 0304 1871 3	COUNTY	144/40 5/40		- Sex	707

Exhibit 3: Sample Calculation of Percentage Deep Percolation on Rolling 3 Year Average (example data shown)

	Gross	Irrigation Water		Total	Potential Consumptive	Water Consumed	Deep Perc of	Return Flows
	Nontributary	Applied	Average	Applied	Use of lawn	on Golf	Irrigation	(Deep Perc less
Month	Water Supplied		Effective Precip		grass	Course	Water	Tree CU)
NOTE	water Supplied	2	3	4 4	9rass 5	6	7	8
	(AF)	(AF)	(AF)	(AF)		(AF)		(AF)
	input	95% x col1	input	col2+col3	calc	col5 x acres	calc	calc
Apr-06				00/20 00/0				
May-06			·					
Jun-06								
Jul-06		49.039						
Aug-06								
Sep-06		36.1665						
Oct-06		14.63		·				
Total	319.82	303.829						
rota.	0.0.02	000.020						
Apr-07	32.77	31.1315						
May-07	44.39	42.1705						
Jun-07	74.99	71.2405						
Jul-07	63.93							
Aug-07								
Sep-07								
Oct-07	33.18	31.521						
Total	339.21	322.2495						
1 Otal	000.2.1	U.E.E.T.U	•					
Apr-08	17.08	16,226		T		1		
May-08								
Jun-08								
Jul-08								
Aug-08								
Sep-08								
Oct-08	31.89	30.2955	j					

Total	307.54	292.163

f		Return Flows	
	Non-tributary	(Deep Perc less	Percent Return
Year	Water Applied	Tree CU)	Flows
	1	2	3
	(AF)	(AF)	col2/col1
2006	304		
2007	322		
2008	292		
Average	306		

EXHIBIT 3

TABLE 12. Your Charlot Methopshim District Water view Accounting States with Example Gala-tivides in Pariety Processing States (PAR)

,		r		·	1	,		m	,,,,		-	r-	1	_	Г	_		-	۳,			r~1	m	,		_	۲	T-		r	-	_	<u>-</u>	l	
	et forces to	112	100.100																															0.0	
	Total Pep-specient	8	M.cocality Agent	1																														0.0	
First Creok	Deed Replacement to his Grack	133	242																												-			10	
Propagament Condition First Creek	e de la seconda	192	(Elementation of 3.1%), crystally lead of the 3.1%							-		ł	-	-		-		-		-		-			~~		-			+				9.0	
8	Total Coll Course Tula Registron Berturs Pera Prig Credits Fi	97.	Article of Control of			-			-					-		Ī	-	-		_	-	-									l			0.0	
	***************************************					 	-	-								 		_			-		<u> </u>								1				
sc Creek	£8	Н	1000 + 1000 1000 1000	1	-			-	<u> </u>	-			_		-						_	-		-							+		-	0.0	
Preplycement Obligations to Past Crosin	Almoras in consultations but a properties pro-	655	61.40		1		-						1				1													1	-			00	
Sup-wiensend	Paringue Property Balance Property Balance Transfer Balance Ba	(t/2) 1 (t/2)	on each sign () on the sign of	-	1	1	-			-		-	1			1	-			-	-							-	-		-	-		0.0	
	tile 1986er Alis		The state of the s	-	1	1				-						1		-									İ							9.0	
	Alle and Medified Organic Wiston Total	-	ė,	-	-	1		-		_		-		1	1	-		İ			-							-						06	
	Mercalis Acures: Rescue Allocati West 3, Visine 4, West 6, World Chick Managed African (Managed Chicken)	L	ì	-	1	+	+	+	+	1				-	-		1		+		+		-	-					-	+	+	+		60	
4	1 1	(35) (39)	e vo			1	-		+	1	1		-	1	+	+	+	+	+		1	1	1	ł		1		ļ		1	-	1	1	36 3.5	
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	3 7 9	311						-						-					1	-	1		_		1	-		-		-				96	
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	West (1995 West) West (1995 Wash	1 (2)	ļ	-			-	-		***					**			+	1	1	1	1	1	1	1					1	_			-	50
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_		3	-	V-91 - 14 6-Y	25.200 to 10.05.5	3	C4.1.7 (C)	X11 17 16X	\$24 1A 14.8	WILLIAM OR	561,151 EX		X 91.14.0X	451.141 FO	100 TT 100	EATTH SOL	Sec. 145	Sept betriete	E SEZEONE LETTENE.	OO 144 SE	1.58,7509 1111,095	501111111111111111111111111111111111111	304 FT 199	1.21,20,000 1511,1915	201211	C23.78(29) E.S. 1945	5817571 BCC	28-14-4 Page 27-4	SELECT MAN	SE10.2 60	100 12/13/9	288 127 1885	SPECT SOURCE	131203 1211963	
1	K K K	Dice		14,000	100	Ke.	74-20	6.80	2	10.3	35.24	2	100	1	KC/234	1111	15	12/15/1	12-31	677.628	17:8:26	1362	C-2	121.2	×	5,23.78	Ž	ŕ	X	[š	26.7	1.76.2	13.50	215	7

Champers to the Victorian indicates and the Champers of the Part of the Special Control of the Champers of the Champers of the Special Control of the Champers

EXHIBIT 4

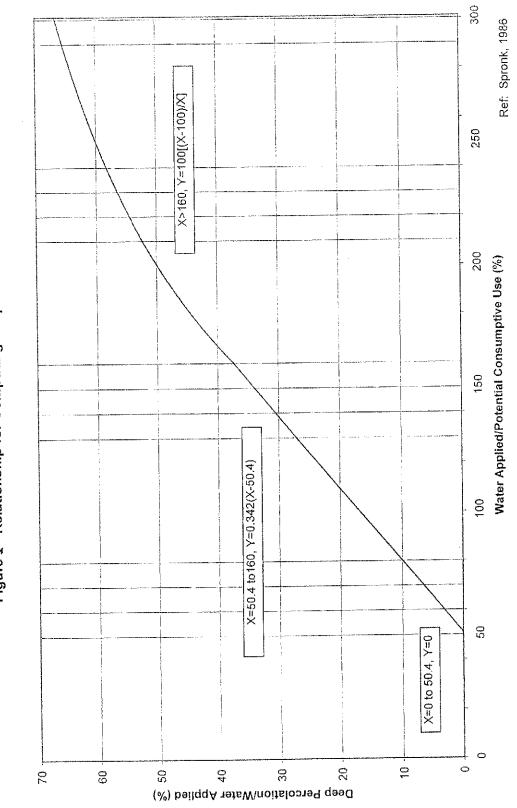


Figure 1 Relationship for Computing Deep Percolation