TECHNICAL MEMORANDUM

Updated Water Demand Projections for the Entrada North Project (Valencia, California)

To: Meridian Consultants

From: John Porcello, GSI Water Solutions, Inc.

Attachments: Tables 1 through 6
Attachments 1 and 2

Date: October 18, 2024

Introduction

This technical memorandum presents an updated water demand projection for the Entrada North Project, which is being developed by The Newhall Land and Farming Company (Newhall), in the Santa Clarita Valley, located in the northwestern portion of Los Angeles County, California.

The projected long-term average annual water demand for the fully built Entrada North Project is provided in Table 1. The remainder of this technical memorandum discusses the water demand calculation methodology; presents the current land use plans and a description of each land use type; summarizes the water demand factors associated with each type of land use; describes the projected long-term annual average water demand; provides a comparison of the updated water demand projection with projections presented in a prior Environmental Impact Report (EIR); and lists the references cited in this technical memorandum. Supporting information is also provided in the following attachments:

- Attachment 1: Detailed Land Use Tables for Entrada North
- Attachment 2: Water Demand Calculations for Entrada North

Proposed Project

The applicant proposes to develop the Entrada North Project on an approximately 441.2-acre area (the "Project Site") with a vesting tentative tract map (VTTM) and related entitlements with 1,150 residential units and up to 304,700 square feet of residential-serving commercial uses (the "Entrada North Project" or "Project"). The Project Site is located in unincorporated Los Angeles County ("County") west of the City of Santa Clarita. The Project Site has long been designated in the Los Angeles County Santa Clarita Valley Area Plan, One Valley One Vision ("Area Plan") to allow for mixed-use development, including residential and commercial uses. Development of the Entrada North Project Site was analyzed in the *Santa Clarita Valley Area Plan Update Final Environmental Impact Report* (SCH #2008071119) (Impact Sciences, 2012) which is herein referred to as the "Area Plan EIR".

The Project is a master-planned community that includes supporting facilities necessary for the mixed-use development, including a public park, regional river trail including a trailhead, private recreational facilities, and other ancillary facilities. Of the 441.2-acre VTTM site, the Project includes approximately 275.8 acres of

open space, parks, and trails. Supportive infrastructure for the Project includes a network of roads, trails, drainage and water quality improvements, flood protection (including buried bank stabilization along the Santa Clara River), potable and recycled water systems (including a water tank), sanitary sewer and dry utility systems, and other ancillary infrastructure facilities. The proposed Project also includes approximately 2.0 acres located outside of the VTTM that include offsite grading and drainage improvements to tie the Project's proposed improvements into the existing terrain along the Project's boundary.

Exhibit 1 below provides a comparative summary of the land uses for the Entrada North Project as evaluated in the Area Plan EIR and as defined in VTTM 084536 for the current Project.[1] The current Entrada North Project reduces the number of residential units and the amount of non-residential uses as compared to the development evaluated in the Area Plan EIR.

Entrada North Proposed Project (VTTM 084536)	Area Plan EIR	Difference (Proposed Project Compared to Area Plan EIR)
• 1,150 Residential Units • 304,700 SF Commercial Non-Residential • Ancillary Uses (parks, etc.)	• 1,639 Residential Units • 2,652,350 SF Commercial Non-Residential • Ancillary Uses (parks, etc.)	• Reduces residential units by 543 units • Reduces commercial non-residential uses by 2,347,650 SF

Exhibit 1 Entrada North Land Use Comparison (Area Plan EIR versus Current Project)

Water Demand Calculation Methodology

The current water demand projection and the projection incorporated into the Area Plan EIR each evaluate how water demands can be met using a combination of potable and nonpotable water supplies. Generally, nonpotable water demand can be met with potable water supplies when nonpotable supplies are not available or can be met with nonpotable water supplies (e.g., recycled water) when available. Past and current projections of potable and nonpotable water demands have been prepared using a water demand projection methodology that was first developed by the Irvine Ranch Water District and was adapted to local conditions in Santa Clarita during preparation of the water demand projections that were in place at the time the Area Plan EIR was issued.

The water demand calculation methodology has been programmed into a series of linked Microsoft Excel spreadsheets that estimate potable and nonpotable water demands. Land use details (discussed below) are manually entered in the spreadsheets and are coupled with pre-programmed water demand factors to calculate and categorize the amounts of indoor (potable) water demands, outdoor potable water demands, and outdoor nonpotable water demands.

[1] The land use development assumptions for the Area Plan EIR were derived by aggregating traffic analysis zone (TAZ) land use data from the Area Plan's Traffic Study for the Entrada North Project Site (TAZ 90 and 92). The land use data is located in Appendix B of the Area Plan's Traffic Study (table entitled Land use and Trip Generation Comparison – 2004 and OVOV Buildout) and the corresponding TAZ map is in Appendix D (Figure D-1). (One Valley One Visions Valley-Wide Traffic Study, Technical Report for the Circulation Elements of the Santa Clarita Valley Area Plan Update (Los Angeles County) and the City of Santa Clarita General Plan Update. Austin-Foust Associations, Inc. June 2010.)

Land Use Plan

Table 2 summarizes the current land use plan for the Entrada North Project. Table 2 has two parts:

- The upper portion of Table 2 shows the residential land use plan, including details contained in the vesting tentative tract map (VTTM 084536)[2] regarding the number of dwelling units and their acreage on an area-wide basis. Table 2 also differentiates between the two primary types of residential units for Entrada North: (1) detached condominiums and (2) attached condominiums.
- The lower portion of Table 2 shows the acreages that will be dedicated to residential units and nonresidential land uses that provide public services (i.e., recreation, arterials, stormwater management facilities, slope stability, and open space).

Attachment 1 provides the details of the land uses for the Entrada North Project, as contained in VTTM 084536. Key aspects of the table and land uses shown in Attachment 1 are as follows:

- The table presents the land use information in the form of land use classifications that are used directly by the water demand tool. These classifications and the data that are shown for each land use type have been derived from detailed land use information that is contained in VTTM 084536 and associated planning data for Entrada North.
- The table presents the VTTM 084536 Planning Area designations and a description of the product type in each case where this information applies. Noteworthy aspects of these products include the following:
  - For residential developments, information is provided on the number of detached versus attached condominiums plus the acreages associated with each of these types of residential units.
  - For nonresidential developments, two types of land uses are present in Entrada North—commercial retail and commercial office.
  - Public nonresidential areas in Entrada North are listed in Table 2 under the heading “Recreation, Arterials, and Open Space.” These land uses focus primarily on irrigation along public rights of way, including transportation corridors, irrigated slopes, and stormwater facilities. Parks and recreation centers are also included in the “Recreation, Arterials, and Open Space” land use category and have a mixture of potable water demands and nonpotable (landscape irrigation) demands.

Water Demand Factors

The water demand factors for indoor and outdoor uses of water in Entrada North are described in a separate memorandum prepared by GSI (2024). In summary, the indoor and outdoor water demand factors have been derived from review of the State of California’s Green Building Standards Code (CALGreen) and Model Water Efficient Landscape Ordinance (MWELO), and by accounting for (1) the effects of climate-change, consistent with guidance from the Santa Clarita Valley Water Agency and the California Department of Water Resources regarding the anticipated effects of climate change on future water supplies; and (2) the effects of overwatering on urban irrigation, consistent with guidance from the Santa Clarita Valley Water Agency. See GSI (2024) for details regarding the derivation of, and basis for, the demand factors. Demand factors for potable water uses are listed in Table 3 for residential development and in Table 4 for nonresidential development. Demand factors for outdoor irrigation water demands that are anticipated to be met with nonpotable water supplies when available are listed in Table 5.

[2] The vesting tentative tract map (VTTM) applications are used for planning purposes of providing a reasonable estimate of land uses for this water demand projection. The VTTMs and land uses may be refined or changed over time.

Water Demand Summary

The current projection of the long-term average annual water demand for the fully built Entrada North Project is presented in Table 1. Supporting calculations for the current water demand projection are provided in Attachment 2. Under the current land use plan, and with implementation of current water conservation standards, the long-term average annual water demand for the fully built Entrada North Project is estimated to be 519 acre-feet per year (AFY) and consists of 314 AFY of potable demand and 205 AFY of nonpotable demand. As shown in Table 1, this demand is for an estimated population of 2,722 residents and results in an estimated per-capita water use of 170 gallons per person per day (gpcpd).

Comparison of Water Demand Projections for Entrada North to the Area Plan EIR

Table 6 compares the prior and current water demand projections for Entrada North with the water demand associated with the Entrada North Project analyzed in the Area Plan EIR, including comparisons of population projections and per-capita water use. The water demand associated with the Entrada North Project was determined based on the land use development assumptions for Entrada North in the Area Plan EIR, as summarized above. Potable demand, nonpotable demand, and total demand are all lower under the current demand projection than under the water demand projection associated with the Entrada North Project analyzed in the Area Plan EIR. Specifically:

- The current demand projection reduces potable water demand by 850 AFY (a 73 percent reduction compared with the water demand associated with the Entrada North Project analyzed in the Area Plan EIR).
- The current demand projection reduces nonpotable water demand by 90 AFY (a 31 percent reduction compared with the water demand associated with the Entrada North Project analyzed in the Area Plan EIR).
- The current demand projection reduces total water demand by 940 AFY (a 64 percent reduction compared with the water demand associated with the Entrada North Project analyzed in the Area Plan EIR).

References

GSI. 2024. *Water Demand Factor Review for Entrada North.* Technical Memorandum to Meridian Consultants. Prepared by John Porcello, GSI Water Solutions, Inc. (GSI). October 17, 2024.

Impact Sciences, Inc. 2012. *Final Program EIR for the County of Los Angeles' Proposed Santa Clarita Valley Area Plan: Volume I, Sections 1.0 through 2.0: One Valley One Vision 2012.* SCH # 2008071119. Prepared for the Los Angeles County Department of Regional Planning. January 2012.

Tables

Table 1
Summary of Projected Water Demands for Entrada North

Demand Projection[1]	Potable Demand (AFY)	Nonpotable Demand (AFY)	Total Demand (AFY)	Total Population	Per Capita Demands (gpcpd)
Current Projection[2]	314	205	519	2,722	170

Notes

(1) The demand estimates are in units of acre-feet per year (AFY), except per person (per capita) demands are in units of gallons per capita per day (gpcpd).

(2) The current projection of future water demands for Entrada North uses current CALGreen and MWELO water conservation standards. Additionally, the outdoor demands include a climate-change factor of 1.0377, consistent with guidance from the Santa Clarita Valley Water Agency and the California Department of Water Resources regarding the anticipated effects of climate change on future water supplies. The outdoor demands also include an over-irrigation factor of 26.5 percent for residential land uses, and an over-irrigation factor of 25.6 percent for non-residential land uses, consistent with the methodology employed by the Santa Clarita Valley Water Agency in the most recent Urban Water Management Plan. This projection of future water demands is approximate and subject to change at the time of preparation of final land use maps.

Abbreviations

AFY = acre-feet per year gpcpd = gallons per capita per day

CALGreen = State of California's Green Building Standards Code MWELO = Model Water Efficient Landscape Ordinance

Table 2
Entrada North Land Use Summary from Vesting Tentative Tract Maps

Residential Land Use Plan (Dwelling Unit Counts and Acreages)

Development	Single-Family Detached Houses		Single-Family Detached Condominiums		Attached Condominiums		Total	
	Units	Acreage	Units	Acreage	Units	Acreage	Units	Acreage
Legacy Village	0	0	397	44.8	753	51.9	1,150	96.7

Residential, Commercial Nonresidential, Other Noncommercial, and Public Land Uses (Acreages)

Development	Residential	Commercial Nonesidential Development	Other Nonresidential Development	Public Noncommercial (Recreation, Arterials, Open Space)	Total Acreage
Legacy Village	96.7	28	0	318.6	443.2*

* Includes 2.0 acres of offsite irrigated acreage

Notes

See Attachment 1 for land use details.

All data and acreages are subject to change at the time of preparation of final land use maps.

Table 3
Potable Water Demand Factors for Residential Development in Entrada North

Residential Land Use Category	Indoor Use (gpcpd)	Outdoor Use (gpcpd)	Persons per Dwelling Unit	Total Potable Use (gpd/DU)
Low Medium (Single-Family Detached Condos)	54	34	2.367	208
Low Medium (Attached Condos)	50	34	2.367	199
Medium (Attached Condos)	50	34	2.367	199

Notes
DU = dwelling units
gpcpd = gallons per capita per day
gpd = gallons per day

Table 4
Potable Water Demand Factors for Nonresidential Development in Entrada North

Nonresidential Land Use Category	Indoor Use		Outdoor Use
	Units	Factor	gpapd
Commercial (Retail)	gpd/sq. ft.	0.18	0
Business Park (Office)	gpd/sq. ft.	0.045	0

Abbreviations
gpapd = gallons per acre per day, based on average square footage per acre
gpd = gallons per day
sq. ft. = square foot

Table 5
Nonpotable Irrigation Water Demand Factors in Entrada North

Land Use Category	Percentage of Gross Acreage Irrigated with Recycled Water if Available	Nonpotable Irrigation Demand Factors (AF/acre/year)
Residential		
Low Medium (Single-Family Detached Condos)	15%	5.09
Low Medium (Attached Condos)	15%	5.09
Medium (Multi-Family Attached)	15%	5.09
Nonresidential		
Commercial (Retail)	25%	3.43
Business Park (Office)	25%	3.43
Recreation, Arterials, Open Space		
Recreation Centers	75%	5.74
Neighborhood Parks	75%	5.74
Arterial Highway Hardscape / Road Section	0%	---
Arterial Highway Landscaped Areas	100%	3.43
Natural Open Space	0%	---
Non-Irrigated Slopes	0%	---
Irrigated Slopes, Wet Zones	100%	3.43
O.S. Drainage Facilities	0%	---
O.S. LDZ, O.S. Trail LDZ, SD&SS easements	90%	3.43

Notes
An entry of — denotes that this land type is not irrigated.
AF = acre-feet O.S. = open space

Table 6
Changes in Water Demands Projections for Entrada North

Demand Projection[1]	Potable Demand (AFY)	Nonpotable Demand (AFY)	Total Demand (AFY)	Total Population	Per Capita Demands (gpcpd)
Area Plan EIR Projection[2]	1,164	295	1,459	4,402	296
Current Projection[3]	314	205	519	2,722	170
Change from Area Plan EIR Projection	**-850**	**-90**	**-940**	**-1,680**	**-126**
Percentage Reduction	**-73%**	**-31%**	**-64%**	**-38%**	**-42%**

Notes

(1) All demand estimates are in units of acre-feet per year (AFY), except per person (per capita) demands are in units of gallons per capita per day (gpcpd).

(2) The water demand projection for the Area Plan EIR used water conservation standards that pre-date the current CALGreen and MWELO standards. These water demand projections were based on the land use development assumptions for Entrada North contained in the Area Plan EIR.

(3) The current demand projection uses current CALGreen and MWELO water conservation standards. Additionally, the current projections of outdoor demands include a climate-change factor of 1.0377, consistent with guidance from the Santa Clarita Valley Water Agency and the California Department of Water Resources regarding the anticipated effects of climate change on future water supplies. The current projections of outdoor demands also include an over-irrigation factor of 26.5 percent for residential land uses, and an over-irrigation factor of 25.6 percent for non-residential land uses, consistent with the methodology employed by the Santa Clarita Valley Water Agency in the most recent (2020) Urban Water Management Plan. The current projection of future water demands is approximate and subject to change at the time of preparation of final land use maps.

Abbreviations

AFY = acre-feet per year EIR = Environmental Impact Report gpcpd = gallons per capita per day
CALGreen = State of California's Green Building Standards Code MWELO = Model Water Efficient Landscape Ordinance

Attachment 1

Detailed Land Use Table for Entrada North
October 2024

Land Use Details for Entrada North

Land Use Category	VTTM Planning Area	No. Of Units	Square Footage	Acreage	Product Type	Notes	Number of Dwellings					Acreage				
Residential							SFD Houses	SFD Condos	Total Detached	Attached	Total DU's	SFD Houses	SFD Condos	Total Detached	Attached	Total Acreage
Estate	---	0	---	0	SFD 2.5 avg. lots (20k min)	---	0	0	0	0	0	0	0	0	0	0
Low	---	0	---	0	SFD 1 avg. acre lots	---	0	0	0	0	0	0	0	0	0	0
Low Medium (1.1 - 12 DU/acre)	1,2B,6C,6D,6E,7C,7D	477	---	52.7	Detached Condo Attached Condo	Net acres	0	397	397	80	477	0	44.8	44.8	7.9	52.7
Medium (12.1 - 30 DU/acre)	2A,2C,6A,6B,7A,7B	673	---	44.0	Attached Condo	Net acres	0	0	0	673	673	0	0	0	44.0	44.0
High (30+ DU/acre)	---	0	---	0	---	---	0	0	0	0	0	0	0	0	0	0
Apartments	---	0	---	0	---	---	0	0	0	0	0	0	0	0	0	0
Subtotal		**1,150**		**96.7**			**0**	**397**	**397**	**753**	**1,150**	**0.0**	**44.8**	**44.8**	**51.9**	**96.7**
Non-Residential																
Commercial - Retail	3,5A,8A.8B,8C,8D,8E,8F		214,700	22.5												
Commercial - Office	4A,4B		90,000	5.4												
Commercial - Total			**304,700**	**27.9**												
Subtotal			**304,700**	**27.9**												
Recreation, Arterials, and Open Space																
Irrigated Slope				7.2		no slope factor applied										
Irrigated Flat				6.7												
Roads/bridge				11.6												
Access Road				3.9												
Non irrigated slope				3.6		no slope factor applied										
Non irrigated flat				1.2												
Water quality				3.4												
Natural OS				264.4												
Trail OS				1.9												
Parkways & medians				3.5												
Sidewalk				2.9												
Recreation centers				2.0												
Parks				6.3												
Subtotal				**318.6**												

	Units	Sq. Ft. (Non-Res)	Total Acreage	VTTM Acreage	Offsite Acreage
GRAND TOTAL	**1,150**	**304,700**	**443.2**	**441.2**	**2.0**

Abbreviations: SFD = single-family detached, DU = dwelling unit
VTTM = Vesting Tentative Tract Map

Attachment 2

Water Demand Calculations for Entrada North
October 2024

Table 2-1
Land Use Plan Statistics
Entrada North

Land Use	Has Water Demands?	Area (acres)			Dwelling Units			
		Detached	Attached	Total	Detached	Attached	Total	
Residential Development								
Low Medium (Single-Family Detached Condos)	Yes	44.8	0	44.8	397	0	397	
Low Medium (Attached Condos)	Yes	0	7.9	7.9	0	80	80	
Medium (Attached Condos)	Yes	0	44.0	44.0	0	673	673	
Subtotals		**44.8**	**51.9**	**96.7**	**397**	**753**	**1,150**	
Nonresidential Development								
Commercial	Yes			22.5	Commercial retail			
Business Park	Yes			5.4	Office space that is in the commercial category			
Subtotal				**27.9**				
Recreation, Arterials, Open Space								
Recreation								
Recreation Centers	Yes			2	Rec center (community park)			
Neighborhood Parks	Yes			6.3	Park (community park)			
Arterial Highways								
Hardscape/Road Section	No			18.4	Not irrigated			
Landscape Area	Yes			3.5	Landscape in parkways and medians			
Major Open Areas								
Natural Open Space	No			264.4	Open space that is not part of "High Country" category			
Non-Irrigated Slopes	No			4.8	Previously "Community Open Area"			
Irrigated Slopes, Wet Zones	Yes			13.9	Previously "Community Slopes"			
O.S. Drainage Facilities	No			3.4	Debris basins, water quality basins, drainage channels			
O.S. LDZ, O.S. Trail LDZ, SD&SS easements	Yes			1.9	Previously "Ungraded Areas and Easements"			
Subtotal				**318.6**				
Totals				**443.2**	**397**	**753**	**1,150**	

Updated October 2024 by GSI Water Solutions, Inc.

All data and acreages in this analysis are approximate and are subject to change at the time of preparation of the final land use map.

Table 2-2
Verification of Updated Population and Density
Entrada North

RESIDENTIAL LAND USE	Acreage	Dwelling Units		Occupancy persons/DU	Population Estimate
		Detached	Attached		
Low Medium (Single-Family Detached Condos)	44.80	397	0	2.367	940
Low Medium (Attached Condos)	7.90	0	80	2.367	189
Medium (Attached Condos)	44.00	0	673	2.367	1,593
TOTAL	**96.70**	**397**	**753**		**2,722**

Average Occupancy

$$\frac{\text{Population}}{\text{Total Dwelling Units}} = \frac{2{,}722}{1{,}150} = \textbf{2.37 persons/DU}$$

Updated October 2024 by GSI Water Solutions, Inc.
DU = dwelling unit

All data and acreages in this analysis are approximate and are subject to change at the time of preparation of the final land use map.

Table 2-3
Water Demand Calculations for Residential Development
Entrada North

Land Use	Acreage			Dwelling Units		Estimated Water Demand												
						Potable Use						Nonpotable Use				Total Use		
	Total	Detached	Attached	Detached	Attached	Interior Use gpcpd (a)	Exterior Use gpcpd (b)	Occupancy p/DU (c)	Interior (ac-ft/yr)	Exterior (ac-ft/yr)	**Subtotal (ac-ft/yr)**	Percent Irrigated Area (d)	Irrigated Acreage (Nonpotable Water)	Annual Use Rate (ac-ft/ac)	**Subtotal (ac-ft/yr)**	(ac-ft/yr)	Gallons Per Day Per Dwelling Unit
Low Medium (Single-Family Detached Condos)	44.8	44.8	0.0	397	0	54	34	2.367	**57**	**36**	**93**	15%	6.72	5.09	**35**	**128**	**288**
Low Medium (Attached Condos)	7.9	0.0	7.9	0	80	50	34	2.367	**11**	**8**	**19**	15%	1	5.09	**7**	**26**	**290**
Medium (Attached Condos)	44.0	0.0	44.0	0	673	50	34	2.367	**90**	**61**	**151**	15%	6.60	5.09	**34**	**185**	**245**
Total Water Demands									**158**	**105**	**263**				**76**	**339**	
Per-Capita Use (gallons/person/day)									**52**	**34**	**86**				**25**	**111**	

Notes:
(a) gpcpd = gallons per capita per day.
Interior water uses include drinking, bathing, laundry, sanitation, etc.
(b) gpcpd = gallons per capita per day.
Exterior water uses include landscape irrigation, washing cars, filling swimming pools, etc.
(c) p/DU = persons per dwelling unit.
(d) Irrigated areas include common areas, greenbelt irrigation within residential neighborhoods, etc.
The percentage value is the percentage of the gross lot area that is irrigated with nonpotable water.

Updated October 2024 by GSI Water Solutions, Inc.
ac-ft/yr = acre-feet per year ac-ft/ac = acre-foot per acre

Single-family detached condos shown in blue. Attached residences shown in reddish-brown.

The values shown in this analysis are approximate and are subject to change at the time of preparation of the final land use map.

Table 2-4
Water Demand Calculations for Nonresidential Development
Entrada North

Land Use	Acreage (acres)	Floor Space (sq. ft.)	Estimated Water Demand								
			Potable Use					Nonpotable Use			Total Use
			Interior Rate (a)	Exterior Rate gpapd (b)	Interior Use (ac-ft/yr)	Exterior Use (ac-ft/yr)	Subtotal (ac-ft/yr)	Percent Irrigable Land	Annual Use (ac-ft/ac)	Subtotal (ac-ft/yr)	(ac-ft/yr)
Commercial (Retail)	22.5	214,700	0.18	0	44	0	**44**	25%	3.43	**20**	**64**
Business Park (Office)	5.4	90,000	0.045	0	5	0	**5**	25%	3.43	**5**	**10**
Total Water Demands					**49**	**0**	**49**			**25**	**74**

Notes:
(a) Interior water uses include drinking and sanitation.
(b) Potable water is used for outdoor uses that have potential human contact (e.g., swimming pools, wash water, some landscape irrigation). Units are in gallons per acre per day.

Updated October 2024 by GSI Water Solutions, Inc.
ac-ft/yr = acre-feet per year ac-ft/ac = acre-foot per acre gpapd = gallons per acre per day sq. ft. = square feet

The values shown in this analysis are approximate and are subject to change at the time of preparation of the final land use map.

Table 2-5
Water Demand Calculations for Recreation, Arterial, and Open Space Land Uses
Entrada North

Land Use	Acreage	Estimated Water Demand					
		Potable Use		Nonpotable Use			
		Potable Use gpapd	Subtotal (ac-ft/yr)	Percent Irrigable Land	Annual Use (ac-ft/ac)	Subtotal (ac-ft/yr)	Total (ac-ft/yr)
Recreation							
Recreation Centers	2.0	90	**1**	75%	5.74	**9**	**10**
Neighborhood Parks	6.3	90	**1**	75%	5.74	**28**	**29**
Arterial Highways							
Hardscape/Road Section	18.4	0	**0**	0%	0	**0**	**0**
Landscape Area	3.5	0	**0**	100%	3.43	**13**	**13**
Major Open Areas							
Natural Open Space	264.4	0	**0**	0%	0	**0**	**0**
Non-Irrigated Slopes	4.8	0	**0**	0%	0	**0**	**0**
Irrigated Slopes, Wet Zones	13.9	0	**0**	100%	3.43	**48**	**48**
O.S. Drainage Facilities	3.4	0	**0**	0%	0	**0**	**0**
O.S. LDZ, O.S. Trail LDZ, SD&SS easements	1.9	0	**0**	90%	3.43	**6**	**6**
Total Water Demands			**2**			**104**	**106**

Updated October 2024 by GSI Water Solutions, Inc.
ac-ft/yr = acre-feet per year ac-ft/ac = acre-foot per acre gpapd = gallons per acre per day O.S. = open space

The values shown in this analysis are approximate and are subject to change at the time of preparation of the final land use map.

Table 2-6
Summary of Estimated Water Demands
Entrada North

Land Use	Estimated Water Demand (ac-ft/yr)		
	Potable	Nonpotable	Total
Residential Development			
Low Medium (Single-Family Detached Condos)	93	35	128
Low Medium (Attached Condos)	19	7	26
Medium (Attached Condos)	151	34	185
Subtotals	**263**	**76**	**339**
Nonresidential Development			
Commercial (Retail)	44	20	64
Business Park (Office)	5	5	10
Subtotals	**49**	**25**	**74**
Recreation, Arterials, Open Space			
Recreation			
Recreation Centers	1	9	10
Neighborhood Parks	1	28	29
Arterial Highways			
Hardscape/Road Section	0	0	0
Landscape Area	0	13	13
Major Open Areas			
Natural Open Space	0	0	0
Non-Irrigated Slopes	0	0	0
Irrigated Slopes, Wet Zones	0	48	48
O.S. Drainage Facilities	0	0	0
O.S. LDZ, O.S. Trail LDZ, SD&SS easements	0	6	6
Subtotals	**2**	**104**	**106**
Totals	**314**	**205**	**519**

Updated October 2024 by GSI Water Solutions, Inc.
ac-ft/yr = acre-feet per year O.S. = open space

The values shown in this analysis are approximate and are subject to change at the time of preparation of the final land use map.