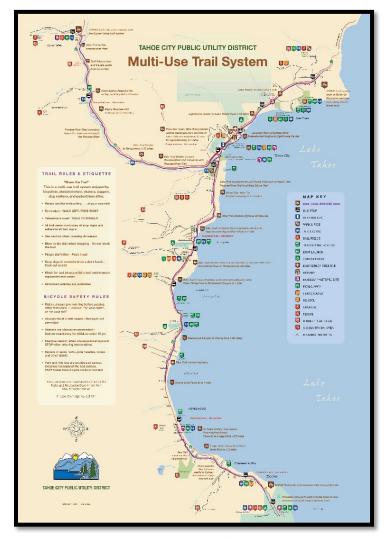
Tahoe City Public Utility District Bike Trail Annual Survey – Summary Report 2018





PREPARED BY:
Kurt Althof
Tahoe City Public Utility District
Phone: 530-580-6057
kalthof@tcpud.org

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Introduction

Overview and Purpose of Annual Bike Trail Surveys

OVERVIEW

The Tahoe City Public Utility District has been conducting intercept surveys and user counts on its bike trail network since 2005. The surveys are conducted the same time in August each year, the first Wednesday and Thursday of the month in order to provide consistent and comparable data year over year.

This report represents a summary of the information gathered from the surveys conducted August 1 and August 2, 2018. Included in this report is an analysis of the purpose of trail usage, the volume of trail usage, and user characteristics.

User counts and surveys were conducted on each of the four different trail segments within the Tahoe City Public Utility District trail system. The survey intercept locations are:

- 1. North Lake Blvd., immediately north of the Lighthouse Center adjacent to Hwy 89
- 2. Truckee River Trail, just south of River Ranch
- 3. 64 Acres Park, just south of the Tahoe City Wye at the Transit Center
- 4. West Shore Trail, corner of Cherry St. and Hwy 89

PURPOSE

The Tahoe City Public Utility District has several objectives for conducting annual bike trail surveys. These objectives include:

- documenting the number of users the trail system serves;
- collection of trail users' opinions with regards to trail conditions, maintenance and signage;
- identify any improvements desired by trail users, as well as concerns and general feedback;
- gauge the importance of the trail system to the community and visitors;
- support for funding applications aimed at financing or partially financing new trails, new trail connections, and trail improvements; and
- measure the impact of a grant funded project and provide the documentation required for grant reporting

Highlighted Findings for the Bike Trail Network

- Nearly all respondents, 92%, claim the trails play a significant positive role in their enjoyment of North Lake Tahoe
- ❖ 78% of the trail users are visitors or part time residents. This percentage has been consistent, within 2% since 2014
- ❖ 47% of the respondents who drove to the trail did so because of safety concerns or because riding or walking on the road is not enjoyable, this number is down 3% from 2017
- ❖ 47% of the respondents would have used a car for their trip had they not been using the trail, representing a 12% increase from 2017
- The ratio of pedestrians to cyclists was 1:2, in 2017 that ratio was 1:3
- ❖ 50% of the trail use was for recreation and sightseeing, 24% of use was purely for exercise and 17% of use was transportation to shopping/dining/activities/etc.
- ❖ 47% of all survey respondents were staying or live in Tahoe City or the West Shore (Tahoe City Public Utility District service area)

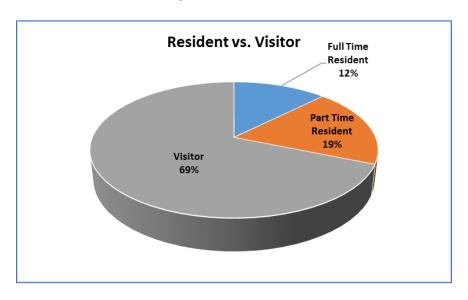
Note: The findings and graphical results found in this report were derived from 268 total intercept surveys. Furthermore, the comparisons to 2017 may be skewed as counts and surveys were not taken after 4:00 pm due to weather in 2017.

Truckee River Bike Trail Survey Results

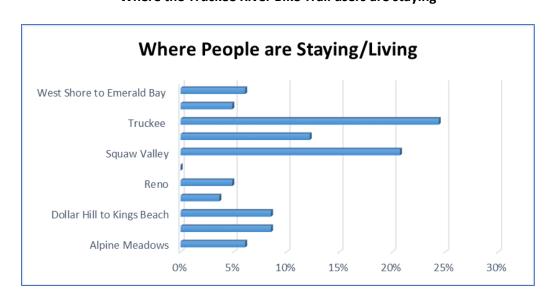
Person counts were conducted on the Truckee River Bike Trail, approximately 100 yards south of River Ranch and adjacent to Highway 89 from 7:00 am and 12:00 pm on Wednesday, August 1st, 2018 and between 1:00 pm and 7:00 pm Thursday, August 2nd, 2018. Over the course of the 12 hour counting period, The Truckee River Trail had 1,166 users of which 23% were pedestrians and 77% were cyclists. Compared to 2017 the percent of pedestrians increased 12%. Peak usage occurred between 12:30 pm and 1:00 pm which is consistent year after year. Exact user counts in 15 minute intervals can be found in Exhibit B.

There were 83 surveys completed on the Truckee River Bike Trail. The following illustrates some of the user characteristics of those on the Truckee River Bike Trail.

Who is using the Truckee River Bike Trail?



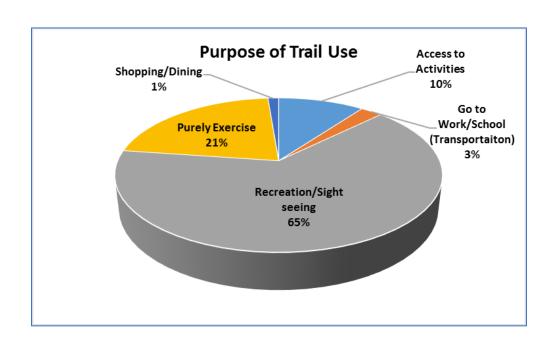
Where the Truckee River Bike Trail users are staying



Would Truckee River Bike Trail users drive a car if not on the Trail?



Why are people using the Truckee River Bike Trail?



North Shore Bike Trail Results

Person counts were conducted on the North Shore Bike Trail, at the north entrance to town just behind the bus stop between 7:00 am and 12:00 pm on Wednesday, August 1st, 2018 and between 1:00 pm and 7:00 pm Thursday, August 2nd, 2018. Over the course of the 12 hour counting period, The North Shore Bike Trail had 418 users, of which 46% were pedestrians and 54% were cyclists. Compared to 2017, the mix of cyclists to pedestrians was the same. Peak usage occurred between 11:30 am and 12:00 pm. Exact user counts in 15 minute intervals can be found in Exhibit B.

There were 71 surveys completed on the North Shore Bike Trail. The following illustrates some of the user characteristics of those on the North Shore Bike Trail.

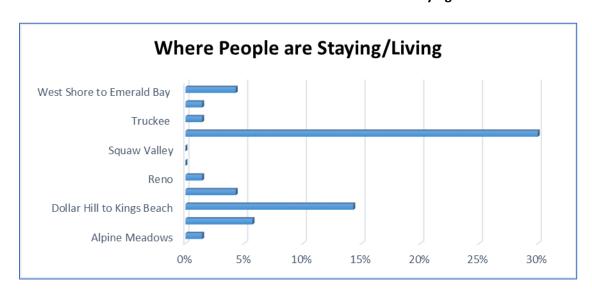
Resident Vs. Visitor

Visitor
49%

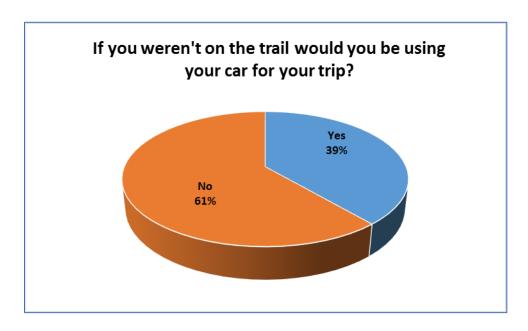
Part Time
Resident
20%

Who is using the North Shore Bike Trail?

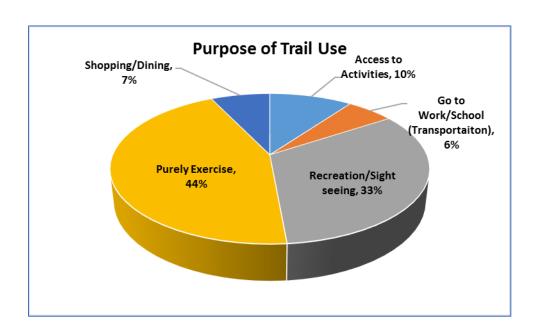




Would North Shore Bike Trail users drive a car if not on the Trail?



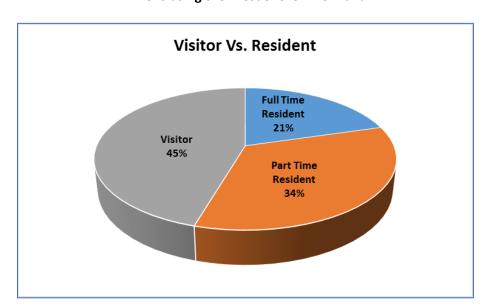
Why are people using the North Shore Bike Trail?



West Shore Bike Trail Results

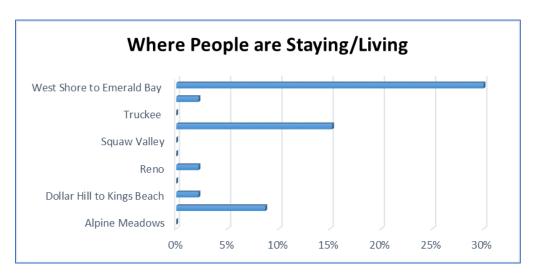
Person counts were conducted on the West Shore Bike Trail, at the corner of Cherry St. and Highway 89, the beginning of the newly constructed Homewood Bike Trail portion of the West Shore Trail. Counts and surveys were taken between 7:00 am and 12:00 pm on Wednesday, August 1st, 2018 and between 1:00 pm and 7:00 pm Thursday, August 2nd, 2018. Over the course of the 12 hour counting period, the West Shore Bike Trail had 322 users, of which 24% were pedestrians and 76% were cyclists. Compared to 2017, the number of users was down slightly and the ratio of pedestrians to bikers was relatively constant. Peak usage occurred between 12:00 pm and 1:00 pm. Exact user counts in 15 minute intervals can be found in Exhibit B.

There were 47 surveys completed on the West Shore Bike Trail. The following illustrates some of the user characteristics of those on the West Shore Bike Trail.



Who is using the West Shore Bike Trail?

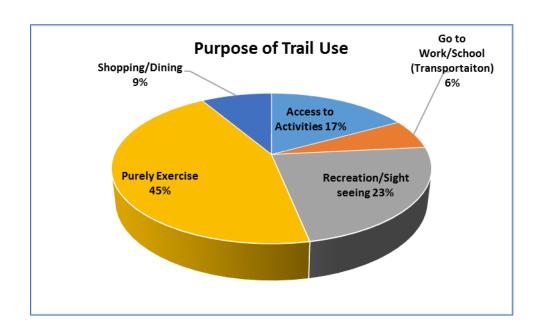




Would West Shore Bike Trail users drive a car if not on the Trail?



Why are people using the West Shore Bike Trail?

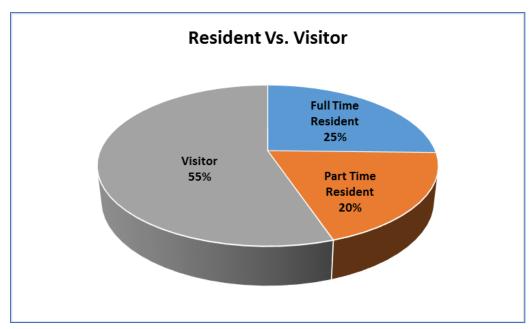


Bike Trail at 64 Acres Results

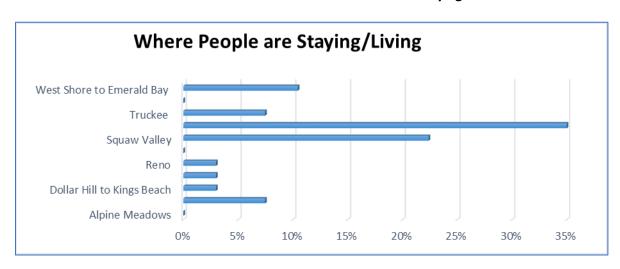
Person counts were conducted on the Bike Trail at 64 Acres, just south of the Tahoe City Wye, at 64 Acres park between 7:00 am and 12:00 pm on Wednesday, August 1st, 2018 and between 1:00 pm and 7:00 pm Thursday, August 2nd, 2018. Over the course of the 12 hour counting period, the 64 Acres Bike Trail had 1118 users, of which 45% were pedestrians and 55% were cyclists. Compared to 2017, the ratio of cyclists to pedestrians again decreased indicating an increase in pedestrian use compared to cyclists. Peak usage occurred between 3:00 pm and 3:45 pm. Exact user counts in 15 minute intervals can be found in Exhibit B.

There were 66 surveys completed on the Bike Trail at 64 Acres. The following illustrates some of the user characteristics of those on the Bike Trail at 64 Acres.

Who is using the Bike Trail at 64 Acres?



Where the Bike Trail at 64 Acres users are staying



Would Bike Trail at 64 Acres users drive a car if not on the Trail?



Why are people using the Bike Trail at 64 Acres?

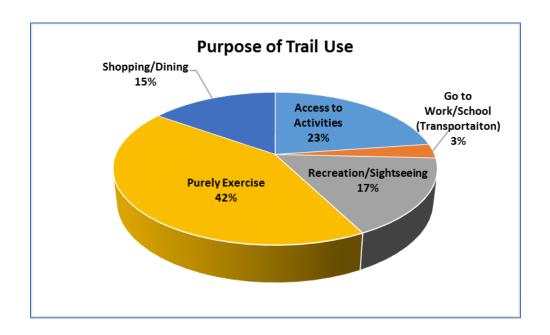
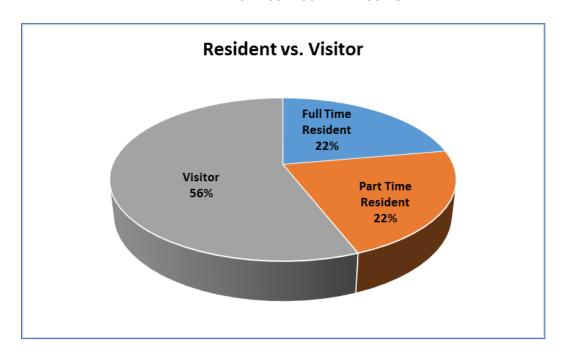


EXHIBIT A:

TRAIL NETWORK USER SURVEY RESULTS



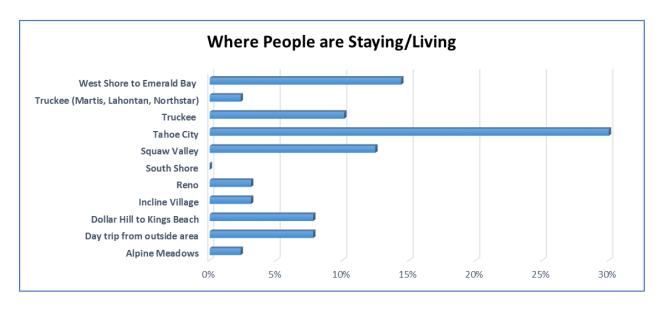
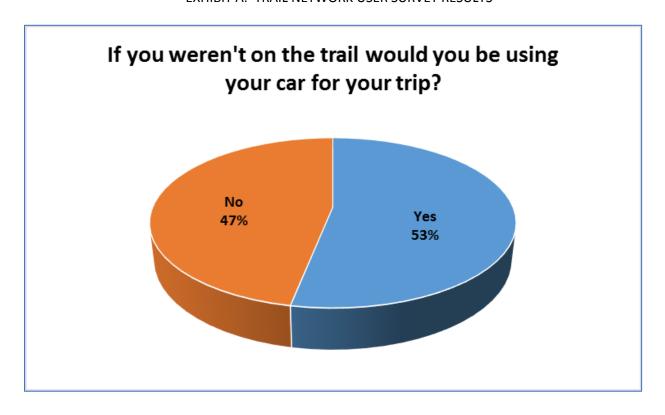


EXHIBIT A: TRAIL NETWORK USER SURVEY RESULTS



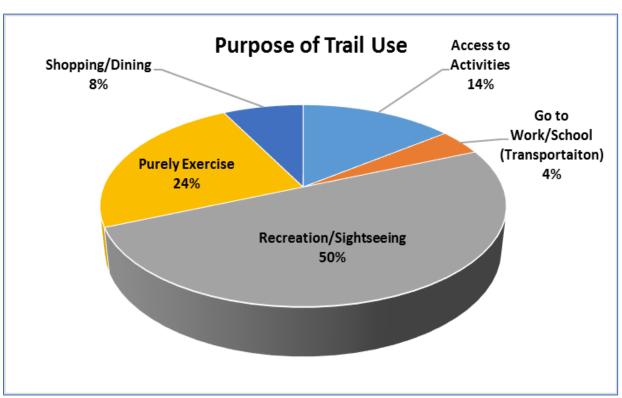
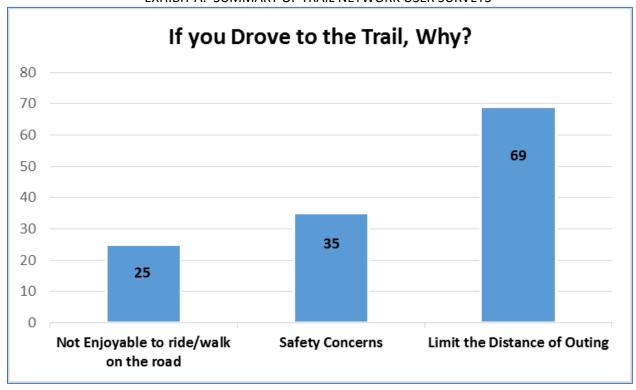
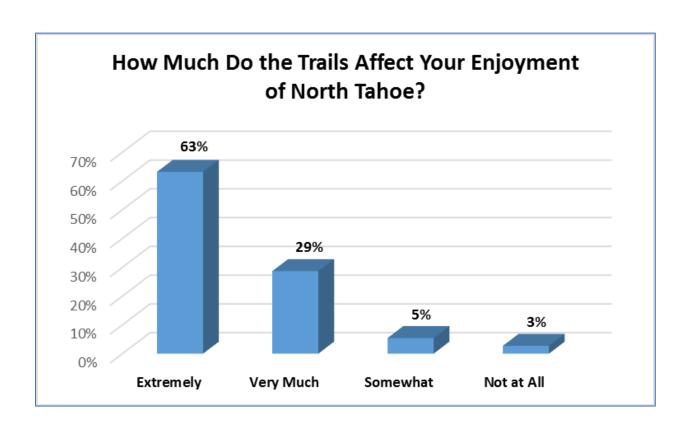


EXHIBIT A: SUMMARY OF TRAIL NETWORK USER SURVEYS





Truckee River Trail User Counts

Walk/Run Bike Total 7:00:00 AM 6 4 10 7:15:00 AM 6 1 7 7:30:00 AM 3 1 4 7:45:00 AM 2 2 4 8:00:00 AM 9 2 11 8:15:00 AM 7 2 9 8:30:00 AM 3 13 16 8:45:00 AM 1 6 7 9:00:00 AM 5 16 21 9:15:00 AM 4 6 10 9:30:00 AM 1 10 11 9:45:00 AM 1 10 11 9:45:00 AM 1 19 20 10:00:00 AM 0 12 12 10:30:00 AM 4 53 57 10:45:00 AM 1 34 35 11:30:00 AM 7 23 30 11:45:00 AM 3 53 56 12:00:00 PM 0 <th>тискее</th> <th>River Ira</th> <th>ali User C</th> <th>ounts</th>	тискее	River Ira	ali User C	ounts
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12:00:00 PM 0 28 28 12:15:00 PM 13 30 43 12:30:00 PM 0 15 15 12:45:00 PM 2 54 56 1:00:00 PM 2 60 62 1:15:00 PM 2 20 22 1:30:00 PM 1 35 36 1:45:00 PM 0 36 36 2:00:00 PM 20 29 49 2:15:00 PM 5 21 26 2:30:00 PM 1 5 6 3:00:00 PM 1 5 24 3:45:00 PM 1 6 35 41 4:15:00 PM 2 30 32 4:30:00 PM 2 25 27 4:45:00 PM 8 12 20 5:00:00 PM 7 6 13 5:30:00 PM 7 6 13 5:30:00 PM 17 7 24 5:45:00 PM 10 2 9 21 6:30:00 PM 12 9 21 6:30:00 PM 13 7 25 6:15:00 PM 10 15 0 15	11:30:00 AM	7	23	30
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6:30:00 PM 5 10 15 6:45:00 PM 4 0 4	6:00:00 PM	18	7	25
6:45:00 PM 4 0 4	6:15:00 PM	12	9	21
	6:30:00 PM	5	10	15
Total 272 894 1166	6:45:00 PM	4	0	4
Total 272 894 1166				
	Total	272	894	1166

North Shore Trail User Counts

11011113	nore ma	 	ounts
	Walk/Run	Bike	Total
7:00:00 AM	2	0	2
7:15:00 AM	2	0	2
7:30:00 AM	3	0	3
7:45:00 AM	6	2	8
8:00:00 AM	7	3	10
8:15:00 AM	10	0	10
8:30:00 AM	6	4	10
8:45:00 AM	7	1	8
9:00:00 AM	5	5	10
9:15:00 AM	4	3	7
9:30:00 AM	0	1	1
9:45:00 AM	11	0	11
10:00:00 AM	3	10	13
10:15:00 AM	14	5	19
10:30:00 AM	3	2	5
10:45:00 AM	1	3	4
11:00:00 AM	9	4	13
11:15:00 AM	7	2	9
11:30:00 AM	5	20	25
11:45:00 AM	2		18
12:00:00 PM	4	16 1	5
12:15:00 PM	4	20	24
12:30:00 PM	5	4	9
12:45:00 PM	2	7	9
1:00:00 PM	2	2	4
1:15:00 PM	1	2	3
1:30:00 PM	3	2	5 5
1:45:00 PM	1	4	_
2:00:00 PM	0	16	16
2:15:00 PM	0	4	4
2:30:00 PM	1	0	1
2:45:00 PM	1	0	1
3:00:00 PM	6	6	12
3:15:00 PM	0	4	4
3:30:00 PM	6	11	17
3:45:00 PM	0	0	0
4:00:00 PM	0	8	8
4:15:00 PM	0	2	2
4:30:00 PM	0	3	3
4:45:00 PM	0	6	6
5:00:00 PM	2	6	8
5:15:00 PM	10	6	16
5:30:00 PM	5	4	9
5:45:00 PM	8	7	15
6:00:00 PM	11	7	18
6:15:00 PM	8	2	10
6:30:00 PM	0	3	3
6:45:00 PM	6	7	13
Total	193	225	418

West Shore Trail User Counts

west si	nore ira	ii Osei C	ounts
	Walk/Run	Bike	Total
7:00:00 AM	2	2	4
7:15:00 AM	0	2	2
7:30:00 AM	5	7	12
7:45:00 AM	4	1	5
8:00:00 AM	3	1	4
8:15:00 AM	0	1	1
	-	5	
8:30:00 AM	4	1	9 5
8:45:00 AM			-
9:00:00 AM	3	7	10
9:15:00 AM	3	5	8
9:30:00 AM	1	7	8
9:45:00 AM	5	3	8
10:00:00 AM	4	8	12
10:15:00 AM	1	7	8
10:30:00 AM	1	5	6
10:45:00 AM	2	12	14
11:00:00 AM	1	4	5
11:15:00 AM	1	2	3
11:30:00 AM	1	5	6
11:45:00 AM	0	5	5
12:00:00 PM	0	8	8
12:15:00 PM	1	18	19
12:30:00 PM	4	23	27
12:45:00 PM	0	11	11
1:00:00 PM	0	2	2
1:15:00 PM	0	8	8
1:30:00 PM	0	5	5
1:45:00 PM	0	8	8
2:00:00 PM	0	6	6
2:15:00 PM	0	6	6
2:30:00 PM	1	8	9
2:45:00 PM	5	7	12
3:00:00 PM	0	3	3
3:15:00 PM	0	8	8
3:30:00 PM	0	2	2
		5	5
3:45:00 PM	0	2	
4:00:00 PM			2
4:15:00 PM	5	3	8
4:30:00 PM	1	3	4
4:45:00 PM	0	5	5
5:00:00 PM	3	4	7
5:15:00 PM	0	1	1
5:30:00 PM	0	3	3
5:45:00 PM	3	0	3
6:00:00 PM	2	3	5
6:15:00 PM	6	0	6
6:30:00 PM	0	3	3
6:45:00 PM	0	1	1
Total	76	246	322

Bike Trail at 64 Acres User Counts

DIKE ITAII	ut of Ac	163 0361	Counts
	Walk/Run	Bike	Total
7:00:00 AM	20	11	31
7:15:00 AM	0	0	0
7:30:00 AM	7	1	8
7:45:00 AM	3	1	4
8:00:00 AM	8	4	12
8:15:00 AM	3	7	10
8:30:00 AM	12	2	14
8:45:00 AM	9	8	17
9:00:00 AM	5	19	24
9:15:00 AM	5	4	9
9:30:00 AM	11	5	16
9:45:00 AM	7	14	21
10:00:00 AM	16	24	40
10:15:00 AM	12	25	37
10:30:00 AM	9	17	26
10:45:00 AM	12	15	27
11:00:00 AM	10	6	16
	9	13	
11:15:00 AM	11		22
11:30:00 AM		10	21
11:45:00 AM	6	11	17
12:00:00 PM		28	43
12:15:00 PM		16	25
12:30:00 PM		22	30
12:45:00 PM		10	15
1:00:00 PM		27	40
1:15:00 PM		25	33
1:30:00 PM		29	38
1:45:00 PM		21	29
2:00:00 PM		22	33
2:15:00 PM		12	28
2:30:00 PM		16	25
2:45:00 PM		16	30
3:00:00 PM		17	29
3:15:00 PM		10	55
3:30:00 PM		23	30
3:45:00 PM		25	35
4:00:00 PM		16	23
4:15:00 PM		9	20
4:30:00 PM		2	18
4:45:00 PM		15	47
5:00:00 PM		8	20
5:15:00 PM	6	4	10
5:30:00 PM	9	9	18
5:45:00 PM	12	14	26
6:00:00 PM	9	4	13
6:15:00 PM	3	5	8
6:30:00 PM	9	5	14
6:45:00 PM	5	6	11
Total	505	613	1118

Total Trail Network User Counts

Total	ıra	iii Netwo	rk User	Counts
		Walk/Run	Bike	Total
7:00:00	AM	30	17	47
7:15:00	AM	8	3	11
7:30:00	AM	18	9	27
7:45:00			6	21
8:00:00			10	37
8:15:00			10	30
8:30:00			24	49
8:45:00			16	37
9:00:00			47	65
9:15:00			18	34
9:30:00			23	36
9:45:00			36	60
10:00:00			64	97
10:15:00			49	76
10:30:00			77	94
10:45:00			48	68
11:00:00			37	57
11:15:00			51	69
11:30:00			58	82
11:45:00			85	96
			65	84
12:00:00				111
12:15:00			84	
12:30:00			64	81
12:45:00			82	91
1:00:00			91	108
1:15:00			55	66
1:30:00			71	84
1:45:00			69	78
2:00:00			73	104
2:15:00			43	64
2:30:00			26	58
2:45:00			28	49
3:00:00			42	73
3:15:00			47	102
3:30:00			51	73
3:45:00			55	75
4:00:00	PM	13	61	74
4:15:00	PM	18	44	62
4:30:00	PM	19	33	52
4:45:00	PM	40	38	78
5:00:00	PM	19	24	43
5:15:00	PM	23	17	40
5:30:00	PM	31	23	54
5:45:00	PM	25	32	57
6:00:00	PM	40	21	61
6:15:00	PM	29	16	45
6:30:00	PM	14	21	35
6:45:00	PM	15	14	29
To	otal	1046	1978	3024
	-			

EXHIBIT C: BIKE TRAIL USER COMMENTS (written as submitted)

- 1 A wider trail would be nice for families
- 2 Been using the bike trails for many years. Great resource
- 3 Bike trail all the way around the lake
- 4 Continue the good work! Access for all to enjoy
- 5 coordinate with the town of Truckee concerning trail signage i.e. walk left ride right
- 6 Enter signage for walkers and rider
- 7 Fun
- 8 great and thankful for the trail
- 9 Great Job!
- 10 How does PUD trails fit in with "Grand Plan" for trail development?
- 11 I like the new bridge! Thanks for taking it off the highway
- 12 I love using the trail to ride my bike and I look forward to using it every year! Keep up the great work
- 13 It's beautiful
- 14 Keep going around the lake
- 15 Keep it up
- 16 Love it!
- 17 Love the new bike path from Homewood
- 18 Love the new West Shore Extension. Love to see trail go around the lake
- 19 More signage: Walk left ride right
- 20 More trails
- 21 None at this time
- part of the problem appears to be temporary due to extensive roadwork in Tahoe City. Had a difficult time finding trail heads for Tahoe Rim
- 23 Prevent visitors from racing on the path
- 24 Repair some of the cracks and bumps
- 25 The more trail the better. Needs crack repair. River needs safe raft exit at River Ranch
- The more trail/path the better. Get people out of cars. Signs to remind bikers to wear helmets
- Use it every year we come up and absolutely one of my favorite parts of my Tahoe experience
- We use it ever time we come up and love it
- 29 We use the trail often and enjoy it very much
- 30 Always love using the trail, congestion/trail condition are only minor complaints
- 31 Awesome outdoor experience
- 32 Beautiful, thank you!
- 33 Bike overpass or underpass in Tahoe city to bypass auto congestion.

Bike path to south shore!

Crossings are poor. Not well marked and no lights. Surface was not cleaned after rain washout. Use this trail often.

- 35 Expand and extend,
- 36 Extend the trail. Signage regarding pedestrian runner etiquette more obvious.
- 37 Fix the cracks surface condition
- 38 Frat boys
- 39 Getting more community participants to get involved in making the trail accessible to general public. Safety, scenery, and community!
- 40 Good job everybody
- 41 Good work and keep that funding coming.
- 42 Great asset to the TC community,
- 43 Great trail along the river
- 44 Great trails make more of them, , I use them almost daily to commute
- 45 Great,
- 46 Have done great Jon, keep it up,
- 47 I love this trail. I drive over an hour to ride this trail as often as I can.
- 48 I wish that I did nothing t need to go on the road a short distance in TC
- 49 Just keep the cracks filled!,,,
- 50 Just thanks.
- 51 Keep investing in trails
- 52 Keep it up-thanks!
- 53 Keep it up,
- 54 Keep it up. The easier it is for pedestrians & cyclists, the better.
- 55 Keep up the good work,
- 56 Like that trails can be used in the winter, use them year round at least 5 days a week
- 57 Love it
- 58 Love it here
- 59 Love it here
- 60 Love the trail with the s turns
- 61 Love this trail. We do it every year.
- 62 Love xoxo
- 63 Lower rental price of bicycles
- 64 Lower your stress level from 10 to 1 with 1 being extremely relaxed
- 65 Moments before doing this survey, I was just noting what a nice path this is.
- 66 More bike trails-
- 67 More signs and water stations
 - Larger pull outs
 - Better access to rivers and lakes
- 68 More support of dirt recreational trails of West Shore.
 Also, grants to trail organizations like TAMBA to expand/ fix neighborhood trail systems
- Move bathrooms to the river side of the road on bike path common sense Run maintenance in shoulder seasons
 Sun Valley amazing example
- 70 Need better signs for street area between dam and Commons Beach.

- 71 No
- 72 No
- 73 River Ranch area gets quite congested. Rafters come out and clog the paths
- Securing trial easementns efforts should be made to connect trail through Tahoe marina lakefront condos. Excerice Eminent domain.

County needs to step up to provide benefit to the community.

Iron ranger installed for people to donate money. 3-4 l

- 75 Stop the construction
- 76 Sunny side trail access is terrible
- 77 The crossing at the top of hill past sunny side is dangerous sometimes as cars go to fast up the hill There needs to be more advance warning for drivers that they need to stop for pedestrians
- The crossings are dangerous for cars. One car stopped suddenly to let me cross (I was not being pushy) and the second car stopped but the third car rear ended him. More attention getting signage or lights are needed.
- 79 Very good. More would be excellent
- 80 We are big fans and grateful for the beauty of Lake Tahoe and the surrounding area

Add a donation box!

- 81 We love the trails and access for our whole family to ride safely
- 82 We love them!

2018 TCPUD Trail Surveys

1) Date () 8/1/17
2) Time
() 7-7:59am () 8-8:59am () 9-9:59am () 10-10:59am () 11-11:59am
() 12-12:59pm () 1-1:59pm () 2-2:59pm () 3-3:59pm () 4-4:59pm
() 5-5:59pm () 6-6:59pm
3) Survey Location?
() Hwy 28/N. Lake Blvd () Truckee River () 64 Acres () West Shore/Homewood
4) Are you a full time resident, part time resident or visitor? () Full time () Part time () Visitor
5) Where do you live or where are you staying in Tahoe?
() Squaw Valley
() Alpine Meadows
() Tahoe City/Lake Forest/Dollar Point
() West Shore to Emerald Bay (Sunnyside, Homewood, Tahoma, Meeks Bay)
() Incline Village
() Truckee - (Martis, Lahontan, Northstar)
() Truckee (Donner Lake, Glenshire, Olympic Heights, Prosser, Tahoe Donner)
() South Shore
() Reno
() Day Trip from outside area
() East of Dollar Hill thru Kings Beach (Old County, Cedar Flat, Carnelian Bay, Tahoe Vista, Crystal Ba
6) If you drove to the trail, why? (check all that apply) [] Safety concerns [] Not enjoyable to ride on the road [] To limit the distance of outing
7) How are you using the trail today? (check all that apply)
[] Access to Activities [] Go to Work/Appointment/School (Transportation) [] Shopping/Errands/Dining [] Recreation/Sightseeing [] Purely Exercise
T I SHOPPING/ LITURIAN TO THE TRACTICATION/ SIGNISCENDS TO THE LACITISE

1 () 2 1) Please rate the trail ba	your group (on bike trail) today? ()3 ()4 ()5 () More the based on the following factors				
	poor	average	good	excellent	n/a
Cleanliness & Quality	()	()	()	()	()
Surface Conditions	()	()	()	()	()
Signage	()	()	()	()	()
Access	()	()	()	()	()
Congestion on Trail (high congestion = poor)	()	()	()	()	()
Users Generally Following Rules	()	()	()	()	()
Trail Crossings	()	()	()	()	()
Overall Experience	()	()	()	()	()

Thank You!