

MEMORANDUM

To: Kurt Triplett, City Manager

From: Tracey Dunlap, Deputy City Manager

Sri Krishnan, Deputy Director of Finance and Administration

Date: March 29, 2021

Subject: IMPACT FEE RATE UPDATE FOLLOW UP DISCUSSION

RECOMMENDATION:

City Council receives a follow up briefing from FCS Group, the City's impact fee consultant, on the results of the Park and Transportation impact fee updates and the initial calculation of a potential Fire Impact Fee. Staff is seeking to identify additional information needed and direction on policy issues; no final action is requested on April 6.

BACKGROUND DISCUSSION:

In 2015 as part of the Kirkland 2035 efforts, staff updated the Park and Transportation impact fees charged to new development, which incorporated the updated Comprehensive plan and related master plans. That study resulted in significant changes in the approach used in setting those fees:

- The methodology for Park impact fees was changed to assess new development a fee
 based on the replacement value of the existing overall park system, divided by
 population to determine the park value per person (investment per capita). These fees
 are collected from residential development only. While the Council at the time
 considered adding an impact fee for commercial (i.e. non-residential) development, that
 decision was deferred to a future update.
- Because of the multimodal nature of the Transportation Master Plan (TMP), a wider variety of transportation improvements were included in the calculation of Transportation impact fees and the fees were based on person trips rather than vehicle trips.

For reference, the detailed rate studies from 2015 are available at the link below: https://www.kirklandwa.gov/Assets/City+Council/Council+Packets/091515/10c UnfinishedBusin ess.pdf

In the 2019-2020 budget, a new impact fee rate study was commissioned that started in 2020 prior to the full impacts of the pandemic. Kirkland (and most of East King County) had been experiencing multiple years of sustained economic redevelopment. The regional building boom was also increasing transportation and park project costs due to high competition for labor and materials. The Council wanted to assess the impact fees to ensure that new growth was still paying an appropriate share of the costs of new infrastructure. Staff selected FCS Group through a competitive procurement to perform the evaluation with the following broad scope:

- Use the existing parks impact fee methodology to develop a parks impact fee study and also provide an option to assess fees on non-residential uses;
- Use the existing transportation impact fee methodology to develop a transportation impact fee study; and
- Develop a fire impact fee methodology and assess the feasibility of implementing the resulting fire impact fee.

The consultants presented an overview of impact fees and the draft results for Parks and Transportation at the September 15, 2020 Council meeting. Consideration of the three impact fees was deferred by the Council to 2021 as part of an overall set of budget responses to the economic impacts of the COVID-19 pandemic. The need for further evaluation of the Transportation impact fee was also identified. The consultants will present the results for the potential Fire impact fee calculation on April 6, along with the revised Transportation results, and a recap of the Parks fee update. The slides supporting that presentation are included as Attachment 1. Attachment 2 contains the detailed consultant report describing the Park and Fire methodology and results.

The City does not currently have a fire impact fee; therefore, instead of an update using an existing methodology, a new methodology must be developed and applied. The proposed fire impact fee uses the "buy in plus growth" method, meaning that the impact fee is comprised of two separate parts: the existing cost component and the future cost component. This briefing will be the first discussion of the potential Fire impact fee results.

A separate report detailing the updated Transportation results will be prepared after Council provides direction on April 6.

The Park results have not changed since the September briefing. The Transportation results have been revised to reflect the projects and growth information from the 2015 study, with the project costs updated to reflect actual costs or revised cost estimates. An update to reflect new growth projections and related project needs will be developed as part of the Comprehensive and Transportation Master Plan Updates planned for 2022-2023.

The studies have been a collaborative effort between the consultant and City team, which includes representatives from Finance, Fire, Parks, Planning, and Public Works. It is important to emphasize that the impact fees presented represent the maximum that can be charged, but a lower number can be, and often is, selected by jurisdictions.

Some of the policy considerations include:

- Trade-off of new growth versus existing taxpayers funding infrastructure capacity,
- Impacts of fees on new development permitting pipeline and future development,
- Competitiveness with surrounding jurisdictions,
- Potential impacts on housing affordability from impact fees.

Staff and the consultant team will be available to answer questions and are seeking policy guidance from the Council on the issues identified below. The staff recommendations are compared to the existing and surrounding jurisdiction fees.

• Should the Fire Impact Fee be implemented and, if so, should the amount be phased-in? *Staff Recommendation:* Implement the calculated fire impact fee in year one.

City	SFR			MFR		
Shoreline	\$	2,311	\$	2,002		
Issaquah		2,213		2,485		
Kirkland		1,019		413		
Renton		830		965		
Redmond		128		217		
Sammamish		N/A		N/A		
Bellevue		N/A		N/A		

• Should the Park Impact Fee be increased and, if so, to what level? Staff Recommendation: Target a fee much less than the calculated maximum. Use the increase in assessed valuation since the 2015 study. Phase that amount in over 3 years.

		Single Family	
		Residence	Multi-Family
Issaquah		9,107	5,591
Sammamish		6,739	4,362
Redmond	•	5,124	3,557
Kirkland (existing)		4,435	3,371
Shoreline		4,327	2,838
Renton		2,915	1,978
Bellevue		N/A	N/A

	S	ingle Family Residence	Multi-Family
Kirkland (calculated maximum)	\$	16,501	\$ 11,172
Kirkland (staff recommendation)		7,173	5,451

- Should a non-residential Park Impact Fee be implemented? Staff Recommendation: Add non-residential component proportionate to phased-in fee increase on the selected implementation date. The previous chart assumes a non-residential fee which lowers the overall fee on residential units.
- Should the Transportation Impact Fees be increased and, if so, to what level? Staff Recommendation: Phased-in the calculated increase over 3 years.

City	per SFR
Sammamish	\$ 14,204
Renton	10,862
Issaquah	9,173
Redmond	7,729
Shoreline	7,112
Bellevue	7,060
Kirkland (existing)	5,888
City	per SFR
Kirkland (calculated maximum)	7,363

The three-year phase-in is presented as an option recognizing that the City will be updating its Comprehensive plan and the related master plans in 2022-2023. This update will extend the planning horizon to 2043, will recognize growth to date and revised growth targets, and will identify needed infrastructure to serve that growth. Once that information is available, staff recommends updating impact fees to reflect the revised plans in 2024.

The following table shows the total impact fees for single family and multi-family in year 1, 2 and 3 if the fees are phased in.

Staff Recommendation - Total Impact Fees (excl. School)

Single Family	Current	Year 1	Year 2	Year 3
Fire	-	1,019	1,019	1,019
Park	4,435	5,348	6,260	7,173
Transportation	5,888	6,380	6,871	7,363
Total	10,323	12,746	14,151	15,555

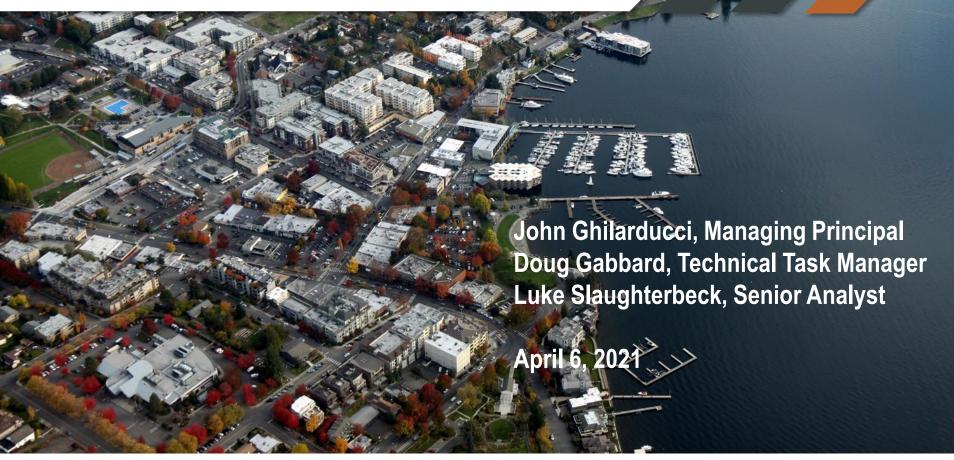
Multifamily	Current	Year 1	Year 2	Year 3
Fire	-	413	413	413
Park	3,371	4,064	4,758	5,451
Transportation	3,357	3,546	3,735	3,924
Total	6,728	8,023	8,906	9,788

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Based on Council feedback on April 6, staff will prepare draft ordinances to implement the recommendations, determine what public process is needed, and return to Council no later than June 1, as contemplated in the Fire Proposition 1 Implementation Plan.



Kirkland Comprehensive Impact Fee Update







What is an Impact Fee?

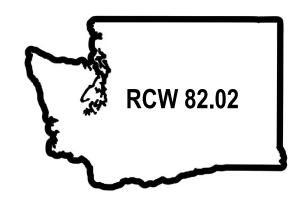
Statutory Basis

Calculation Framework

Results

- Fire New
- Parks Update
- Transportation Update





One-time fee imposed on development

Proportionate share of public facilities

- System improvements
- Must be reasonably related to and benefit new development
- Must be balanced with other public funds

Spending restrictions

- Capital facilities plan element of the comprehensive plan
- 10 years

Credits

Value of improvements required of developers

Affordability

 May provide partial or full exemptions for lowincome housing



Calculation Framework

Impact Fee

Numerator should represent total capital cost of serving the customer base growth in the denominator.

allocable capital cost applicable customer base

Denominator should represent total customer base growth that will be served by the projects in the numerator.



Specific Methodologies Differ

Fire

- **Existing apparatus** and station costs serve both existing and future customers
- Planned apparatus and station costs serve both existing and future customers
- **Applied to land uses** based on historical incident generation

Parks

- **Historical** investment approach
- **Evaluated against** growth-related portion of 6-year capital plan
- **Applied to dwelling** unit type by occupancy and nonresidential by employment

Transportation

- **Based on updated** costs of projects in **Transportation Master** Plan
- Allocations based on previous study
- Applied to multiple land uses by trip generation

Slide 5 **FCS GROUP**



Key Policy Questions for Council







Should fire impact fees be implemented?

How much should parks impact fee be increased? Should parks impact fee apply to non-residential development?

Should a phase-in strategy be adopted for all three fees?

Fire Key Points

Based on existing system assets and future projects

Majority of cost basis comes from future projects

Fees broadly in line with other Washington jurisdictions



					Existing	Future
			Unit of		Component	Component
Land Use Type	1	Total Fee	Development	Growth by 2035	Revenue	Revenue
Commercial	\$	1.40	per Sq. Ft.	889,766	\$ 332,614	\$ 910,885
Office & Industrial		0.07	per Sq. Ft.	4,831,614	118,363	198,977
Schools		0.53	per Sq. Ft.	551,102	79,533	214,989
Health Care		3.24	per Sq. Ft.	450,269	394,105	1,065,320
Government		3.03	per Sq. Ft.	71,559	58,562	158,301
Single-Family		1,019.38	per Dwelling Unit	3,511	841,610	2,737,444
Multifamily		412.92	per Dwelling Unit	10,153	1,590,558	2,601,849
Total Revenue Generated					\$ 3,415,346	\$ 7,887,764

Fire Regional Comparison

City	SFR	MFR		
Shoreline	\$ 2,311	\$	2,002	
Issaquah	2,213		2,485	
Kirkland	1,019		413	
Renton	830		965	
Redmond	128		217	
Sammamish	N/A		N/A	
Bellevue	N/A		N/A	

Parks Results (Calculated Maximum)

					C	Current Study	Cu	rrent Study
	Previo	ous Study	C	Current Fees	(w/c	nonresidential)	(w/ n	onresidential)
Single-Family	\$	3,968	\$	4,435	\$	17,496	\$	16,501
Multi-family		3,016		3,371		11,845		11,172
Residential Suite		N/A		3,371		6,268		5,912
Per Employee		N/A		N/A		N/A		720

Parks Schedule (w/ nonresidential)

Land Use Category	Charge	Unit
Single-Family Residential	\$ 16,501	per Dwelling Unit
Multifamily	11,172	per Dwelling Unit
Manufacturing	1.44	per Sq. Ft.
Wholesale, Transportation and Utilities	0.72	per Sq. Ft.
Retail	1.03	per Sq. Ft.
Finance, Insurance, and Real Estate	2.06	per Sq. Ft.
Services (not including food services)	1.80	per Sq. Ft.
Government/Education	2.40	per Sq. Ft.
Restaurant	3.60	per Sq. Ft.
Mini-storage	0.04	per Sq. Ft.

Parks Key Points

Increase in property values leads to higher impact fee cost basis

Parks plan size allows large number of impact fee eligible projects

Fees represent maximum allowable charge

Council can adopt "up to" calculated fees

Parks Regional Comparison

		Single Family	
		Residence	Multi-Family
Issaquah		9,107	5,591
Sammamish	•	6,739	4,362
Redmond	•	5,124	3,557
Kirkland (existing)		4,435	3,371
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	5	Single Family	
		Residence	Multi-Family
Kirkland (calculated maximum)	\$	16,501	\$ 11,172
Kirkland (staff recommendation)		7,173	5,451

Staff recommendation: Increase fee by assessed value increase (80.74%)

** Transportation Calculation

- Updated project costs using current (2015) Transportation Master Plan
- Project list is sized using 2015 growth metrics and trip ends.

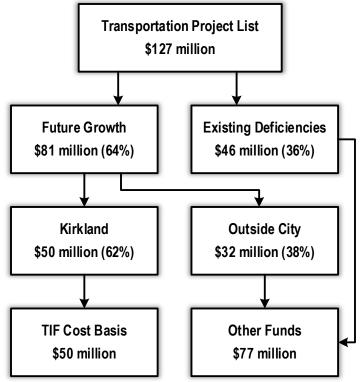
Eligible Cost Basis	\$ 77,827,545
less: Existing TIF fund balance	 (1,660,800)
Net Allocable Growth Cost	\$ 76,166,745
New PM Peak-Hour Person Trip Ends	15,000
New PM Peak-Hour Person Trip Ends	15,000

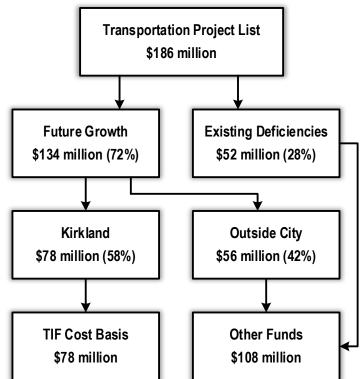


Comparison to Previous



2021 Study





\$50,127,787 **Cost Basis**

> ÷ 15,000 **Person Trip Growth**

\$3,341.85 TIF / P-HPTE

* Current Fee per P-HPTE is \$4,061

\$77,827,545 **Cost Basis**

76,166,745 Adjusted for F.B.

÷ 15,000 **Person Trip Growth**

TIF / P-HPTE \$5,077.78

Sample Fees for Specific Land Uses

- **Current Fee per Person Trip End = \$4,061**
- **Calculated Fee per Person Trip End = \$5,078**

Land Use	Unit*	Current	Calculated	Difference	% Δ
Single-family Residential	D.U.	\$5,888	\$7,363	\$1,475	25%
Multi-family Housing	D.U.	\$3,357	\$3,924	\$567	17%
Congregate Care	D.U.	\$674	\$1,929	\$1,255	186%
Hotel	Room	\$4,037	\$11,486	\$7,449	185%
General Office Building	S.F.	\$9.36	\$9.46	\$0.10	1%
Fast Food (w/drive through)	S.F.	\$46.20	\$135.42	\$89.22	193%
Shopping Center	S.F.	\$5.80	\$24.67	\$18.87	325%
Hospital	S.F.	\$5.27	\$7.63	\$2.36	45%
Car Sales – New / Used	S.F.	\$13.65	\$27.89	\$14.24	104%
Supermarket	S.F	\$18.03	\$47.99	\$29.96	166%

** Transportation Regional Comparison

City	per SFR
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Impact Fee Effects if Maximum Assessed

Two example projects:

- New Single-Family Home
- Multi-use development
 - » 100 dwelling units
 - » 10,000 sq. ft. of office space

	Single Family Residence			Multi-Use Development		
	Current	urrent Calculated (+ / -)			Calculated	(+ / -)
Parks	\$4,435	\$16,501	\$12,066	\$337,100	\$1,117,200	\$780,100
Transportation	\$5,888	\$7,363	\$1,475	\$429,300	\$487,010	\$57,710
Fire	-	\$1,019	\$1,019	-	\$41,992	\$41,992
Total	\$10,323	\$24,883	\$14,560	\$766,400	\$1,646,202	\$879,802



Staff Implementation Recommendations



Fire – Implement full impact fee



Parks – Phase-in to staff recommendation over three years



Transportation – Phase-in over three years

Staff Recommendation – Fee Schedule

Single Family	Current	Year 1	Year 2	Year 3
Fire	-	\$1,019	\$1,019	\$1,019
Parks	\$4,435	\$5,348	\$6,260	\$7,173
Transportation	\$5,888	\$6,380	\$6,871	\$7,363
Total	\$10,323	\$12,746	\$14,151	\$15,555

Multifamily	Current	Year 1	Year 2	Year 3
Fire	-	\$413	\$413	\$413
Parks	\$3,371	\$4,064	\$4,758	\$5,451
Transportation	\$3,357	\$3,546	\$3,735	\$3,924
Total	\$6,728	\$8,023	\$8,906	\$9,788



Key Policy Questions for Council







Should fire impact fees be implemented?

How much should parks impact fee be increased?
Should parks impact fee apply to non-residential development?

Should a phase-in strategy be adopted for all three fees?

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Section I. INTRODUCTION

The City of Kirkland, Washington (City) is a growing city with increasing demands for parks facilities. To help offset the costs that these demands place upon the City, the City imposes a Parks Impact Fee of \$4,391 for a single-family home, and \$3,338 for a multi-family dwelling unit. This fee was intended to recover an equitable share of system costs from growth, recognizing both the investments in infrastructure that the City has made and the future investments that the City will have to make to provide capacity to serve growth. The parks impact fee was last studied in 2015, and the City Council adopted Park Impact fees based on this study, which became effective in 2016. The fees have been indexed to inflation over the intervening time period and have thus increased every year. In 2020, the City contracted with FCS GROUP to update the fee. In addition, the City requested an initial impact fee for its fire and emergency medical services, which is included in this report. The scope of work also included updating the City's Transportation Impact Fee, but finalizing that work has been put on hold pending updates to the City's Transportation Management Plan (TMP) expected in 2021. Those results will be summarized in a separate report when the new information has been incorporated.

Consistent with these objectives, this study included the following key elements:

- Overview of Washington Laws and Methodology Alternatives. We worked with City staff to
 examine previous impact fee methodologies and evaluate alternative approaches in compliance
 with Washington law.
- **Develop Policy Framework**. We worked with City staff to identify, analyze, and agree on key policy issues and direction.
- **Technical Analysis**. In this step, we worked with City staff to resolve technical issues, isolate the recoverable portion of existing and planned facilities costs, and calculate fee alternatives. The most important technical consideration involves the identification and inclusion of planned capacity-increasing project costs.
- **Documentation and Presentation**. In this step, we presented preliminary findings to the City Council and summarized findings and recommendations in this report.



Section II. IMPACT FEE LEGAL OVERVIEW

Impact fees are enabled by state statutes, authorized by local ordinance, and constrained by the United States Constitution. Impact fees allow cities to recover some of the cost of expanding public facilities necessitated by growth. These fees allow "growth to pay for growth" in a fair and equitable manner. Impact fees have a specific definition and associated constraints in the state of Washington. Impact fees are allowed under RCW 82.02.050 through 82.02.110 and are permitted for:

- Public streets and roads
- Publicly owned parks, open space, and recreation facilities
- School facilities
- Fire protection facilities

The statute provides specific guidance on the permissible methodology for calculating impact fees. This guidance can be broken down into three major categories:

- 1. Eligibility Requirements. RCW 82.02.050(3) states that impact fees:
 - a. Shall only be imposed for system improvements that are reasonably related to the new development;
 - b. Shall not exceed a proportionate share of the costs of system improvements that are reasonably related to the new development; and;
 - c. Shall only be used for system improvements that will reasonably benefit the new development.

These requirements, which exist to protect developers, ensure that impact fees are based on—and spent for—capacity that will directly or indirectly serve new development. That is why careful scrutiny is given to the included project list. Moreover, the impact fee that a developer pays must represent that particular development's fair share of required capacity. That is why developments pay a unique fee based on land use, anticipated occupancy, and size.

Additionally, RCW 82.02.050(5) states that "Impact fees may be collected and spent only for the public facilities . . . which are addressed by the capital facilities plan element of a comprehensive land use plan." This means that if a project is not listed in the adopted capital facilities plan element, then it is not eligible to be included in impact fee calculations.

- 2. Cost Basis. RCW 82.02.060(1) outlines the cost basis of impact fee calculations, stating that the basis must consider:
 - a. The cost of public facilities necessitated by new development;
 - b. An adjustment to the cost of the public facilities for past or future payments made or reasonably anticipated to be made by new development to pay for particular system improvements in the form of user fees, debt service payments, taxes, or other payments earmarked for or pro-ratable to the particular system improvement;



- c. The availability of other means of funding public facility improvements;
- d. The cost of existing public facilities improvements; and
- e. The methods by which public facilities improvements were financed.

This means that adjustments to the impact fee cost basis must be made for the amount of outstanding debt that was or will be used to pay for capital facility improvements, as well as other methods of funding public facilities improvements.

3. Customer Base. The costs determined to be eligible must be proportionately allocated across the projected customer base.



Section III. FIRE IMPACT FEE

The City does not currently have a fire impact fee. Therefore, instead of an update using an existing methodology, a new methodology must be applied. This study uses the *buy in plus growth method*, meaning that the impact fee is comprised of two separate parts: the existing cost component and the future cost component. Conceptually, this recognizes that the new customer is not fully served by the existing system, as evidenced by the need to make additional expansion investments. An expansion charge is added to this existing system charge by dividing the expansion portion of future capacity investments by the projected growth. The existing cost component consists of the existing system cost, divided by the existing customer base *plus* the future growth served. The future cost component consists of the capacity expanding portion of future projects, divided by *only* future growth served. These two components are then added together to create the fire impact fee. This methodology is shown in **Exhibit 1**.

Each of these components requires explanation and is examined in detail below.

III.A. EXISTING SYSTEM COST

The existing system cost is simply the cost of the City's existing assets used to provide fire and EMS services. This primarily consists of fire apparatus (including engines, aid cars, and marine units), miscellaneous equipment, and fire stations that are currently in service. The included assets are shown in **Exhibit 2** and **3**.



Exhibit 2
Fire Apparatus

rire Apparatus					
	Acquisition			Original	
Veh #	Date	Useful Life		Cost	
F-612	2003	18	\$	355,048	
F-613A	2005	18		169,694	
F-213	2006	8		58,314	
F-613B	2006	18		233,605	
F403B	2007	17		4,814	
F-613C	2007	17		632	
F-216	2008	8		66,368	
F-318A	2010	8		188,990	
F-614A	2010	18		542,752	
F-614B	2010	18		244	
F-318B	2011	8		1,243	
F-614C	2011	18		2,163	
F-319A	2012	8		197,374	
F-615A	2012	18		269,200	
F-319B	2013	8		330	
F-615B	2013	18		311,091	
F-320	2014	8		211,243	
F-321	2014	8		211,455	
F-507A	2014	8		2,403	
F-615C	2014	17		2,947	
F-322A	2015	8		225,148	
F-323A	2015	8		225,148	
F-507B	2015	18		1,215,767	
F-616A	2015	18		603,529	
Marine-1	2015	10		38,690	
Marine-2	2015	10		38,690	
F-318C	2016	8		40,359	
F-319C	2016	8		40,359	
F-322B	2016	8		42,739	
F-323B	2016	8		42,769	
F-507C	2016	8		1,349	
F-616B	2016	8		23	
F-617	2017	18		665,441	
F 617	2018	18		22,418	
F214X	2006	8		26,964	
F222	2014	8		31,265	
F223	2014	8		31,265	
F224	2014	8		31,265	
F225	2014	8		31,265	
Included Total			\$	6,184,368	

The total apparatus cost is \$6.2 million. The other major component of the City's assets is its fire stations, which total \$8.5 million.



Exhibit 3 City Fire Stations

	Year	Original
Station	Acquired	Cost
Fire Station #21	1998	\$ 1,352,826
Fire Station #22	1980	662,700
Fire Station #26	1994	1,588,088
FS#25 (FD41 Annex)	2011	1,078,600
Fire Station #25 Renovation	2018	3,653,513
FS#27 (FD41 Annex)	2011	213,700
Total		\$ 8,549,428

Combined with \$379,317 in included miscellaneous equipment, the total existing cost component can be calculated as shown in **Exhibit 4** below and totaling \$15,113,113.

Exhibit 4
Existing Cost Component

Asset Category Cost	
Apparatus	\$ 6,184,368
Miscellaneous Equip.	379,317
Stations	8,549,428
Existing Cost Component	\$ 15,113,113

III.B. CUSTOMER BASE

The next step is to calculate the existing customer base. The City provided the number of dwelling units in the City in 2015, along with the area (in square feet) of various nonresidential land use types. Based on the City's comprehensive plan, anticipated development by 2035 and annual growth rates could be calculated as shown in **Exhibit 5**. Using the compound annual growth rate, the total amount of development in 2019 could be interpolated. Development in 2019 is the existing customer base, and the estimated development between 2020 and 2035 is the future customer base.

Exhibit 5
Development

				Compound	
			Additional 2035	Annual	2019
Land Use	Measurement	2015 Existing	Development	Growth Rate	Development
Commercial	Sq. Ft.	4,063,759	889,766	0.99%	4,227,905
Office & Industrial	Sq. Ft.	8,799,061	4,831,614	2.21%	9,604,008
Schools	Sq. Ft.	2,468,850	551,102	1.01%	2,570,371
Health Care	Sq. Ft.	2,017,135	450,269	1.01%	2,100,081
Government	Sq. Ft.	320,571	71,559	1.01%	333,753
Single-Family	Dwelling Unit	20,451	3,511	0.80%	21,109
Multifamily	Dwelling Unit	17,086	10,153	2.36%	18,756

The City provided response data from 2019, categorized by land use type. This was used to calculate the 2019 incident generation rate, or the number of incidents generated by each unit of development, as shown in **Exhibit 6**.



Exhibit 6
2019 Incident Generation Rate

			2019 Incident		
		2019	2019	Generation	
Land Use	Measurement	Development	Incidents	Rate	
Commercial	Sq. Ft.	4,227,905	936	0.00022	
Office & Industrial	Sq. Ft.	9,604,008	169	0.00002	
Schools	Sq. Ft.	2,570,371	220	0.00009	
Health Care	Sq. Ft.	2,100,081	1,092	0.00052	
Government	Sq. Ft.	333,753	162	0.00049	
Single-Family	Dwelling Unit	21,109	2,903	0.13754	
Multifamily	Dwelling Unit	18,756	2,157	0.11500	
Total			7,640		

Assuming that incident generation rates across land use types remain the same, an incident forecast for 2035 can be prepared, as shown in **Exhibit 7**.

Exhibit 7
Incident Forecast

Land Use	Measurement	2015 Evicting	2035	2019 Incident Generation Rate	2035 Incident Forecast
Commercial	Sq. Ft.	2015 Existing 4,063,759	Development 4,953,525	0.00022	1,097
	•				,
Office & Industrial	Sq. Ft.	8,799,061	13,630,675	0.00002	240
Schools	Sq. Ft.	2,468,850	3,019,952	0.00009	259
Health Care	Sq. Ft.	2,017,135	2,467,404	0.00052	1,283
Government	Sq. Ft.	320,571	392,130	0.00049	191
Single-Family	Dwelling Unit	20,451	23,962	0.13754	3,296
Multifamily	Dwelling Unit	17,086	27,239	0.11500	3,133
Total					9,497

The annual number of incidents is expected to grow by 1,857 incidents between 2019 and 2035 (9,497 - 7,640 = 1,857). This results in a *growth eligibility percentage* of 19.56 percent.

$$1.857 \div 9.497 = 19.56\%$$

Unlike other City services, it is difficult to assign future investments as 100 percent growth related. Apparatus are mobile, and most of the growth within the City is projected to be infill and redevelopment. Thus, future projects will be assumed to serve both existing development and future growth. This means that future system investments will only be 19.56 percent eligible for inclusion in the future cost component.

III.C. FUTURE COST COMPONENT

The City provided a capital improvement plan (CIP) that included both funded and unfunded projects. However, after discussions with City staff, it was determined that the unfunded portion of the CIP should be included in the impact fee cost basis only if the City's Proposition #1 levy failed at



the November 2020 election. The levy passed, so the projects listed in the unfunded portion of the CIP will be funded with levy funds instead, and not included in the impact fee study. The included CIP projects are shown in **Exhibit 8**.

Exhibit 8
Future Projects

Project Number	Project Title	Prior Year(s) (not included)	2019-2024 Total
FIRE			
PSC 06300	Air Fill Station Replacement		86,200
PSC 06600	Thermal Imaging Cameras		93,400
PSC 07100	Self Contained Breathing Apparatus (SCBA)		1,017,600
PSC 07600	Personal Protective Equipment		1,320,500
PSC 08000	Emergency Generators	120,000	120,000
PSC 08100	Fire Station 26 Training Prop		290,000
PSC 08200	Water Rescue Craft Storage & Lift		87,900
FACILITIES			
PSC 30021	Fire Station 24 Land Acquisition	4,437,53	5,737,530
PSC 30022	Fire Station 24 Replacement	10,133,30	0 16,890,908
Total Funded Public Safety Projects		\$ 14,690,83	0 \$ 25,644,038

Impact Fee Eligibility	Impact Fee Eligibile Cost
19.56%	16,857
19.56%	18,265
19.56%	198,999
19.56%	258,233
19.56%	46,934
19.56%	56,712
19.56%	17,189
19.56%	1,989,804
19.56%	5,284,772
	\$ 7,887,764

The future cost to be included is \$25.6 million. When multiplied by the growth eligibility percentage calculated above, the future cost basis is \$7.9 million.

III.D. IMPACT FEE CALCULATION

All the cost bases of the impact fee have now been calculated. However, as the impact fee will be charged based on individual land use type, each cost component must be distributed across the various land use types. This is done on the percentage of incidents in the relevant year (2019 for the current cost basis and 2035 for the future cost basis). **Exhibit 9** shows the distribution and resulting impact fee for apparatus costs.

Exhibit 9 Apparatus Fee Calculation

	Unit of		2019 Incident	Cost Basis:	2035	
Land Use Type	Development	2019 Incidents	Breakdown	\$ 6,184,368	Development	Fee
Commercial	Sq. Ft.	936	12.25%	\$ 757,740	4,953,525	\$ 0.15
Office & Industrial	Sq. Ft.	169	2.21%	136,642	13,630,675	0.01
Schools	Sq. Ft.	220	2.88%	178,344	3,019,952	0.06
Health Care	Sq. Ft.	1,092	14.29%	883,735	2,467,404	0.36
Government	Sq. Ft.	162	2.12%	131,318	392,130	0.33
Single-Family	Dwelling Unit	2,903	38.01%	2,350,415	23,962	98.09
Multifamily	Dwelling Unit	2,157	28.24%	1,746,174	27,239	64.11
Total		7,640	100.00%	\$ 6,184,368		

Exhibit 10 shows the distribution and resulting impact fee for fire stations and miscellaneous equipment costs.



page 9

Exhibit 10
Stations and Miscellaneous Equipment Fee Calculation

	Unit of		2019 Incident	Cost Basis	2035	
Land Use Type	Development	2019 Incidents	Breakdown	\$8,928,745	Development	Fee
Commercial	Sq. Ft.	936	12.25% \$	1,093,995	4,953,525	\$ 0.22
Office & Industrial	Sq. Ft.	169	2.21%	197,278	13,630,675	0.01
Schools	Sq. Ft.	220	2.88%	257,486	3,019,952	0.09
Health Care	Sq. Ft.	1,092	14.29%	1,275,901	2,467,404	0.52
Government	Sq. Ft.	162	2.12%	189,592	392,130	0.48
Single-Family	Dwelling Unit	2,903	38.01%	3,393,435	23,962	141.62
Multifamily	Dwelling Unit	2,157	28.24%	2,521,057	27,239	92.55
Total		7,640	100.00% \$	8,928,745		

Finally, the future cost basis is distributed in **Exhibit 11**. As the future cost basis is divided only by future growth, the incidents, incident breakdown, and development are different than in **Exhibits 9** and **10**.

Exhibit 11 Future Projects Fee Calculation

	Unit of	2035 Projected	2035 Incident		Cost Basis			
Land Use Type	Development	Incidents	Breakdown	\$	7,887,764	Growth by 2035		Fee
Commercial	Sq. Ft.	1,097	11.55%	\$	910,885	889,766	\$	1.02
Office & Industrial	Sq. Ft.	240	2.52%		198,977	4,831,614		0.04
Schools	Sq. Ft.	259	2.73%		214,989	551,102		0.39
Health Care	Sq. Ft.	1,283	13.51%		1,065,320	450,269		2.37
Government	Sq. Ft.	191	2.01%		158,301	71,559		2.21
Single-Family	Dwelling Unit	3,296	34.70%		2,737,444	3,511		779.68
Multifamily	Dwelling Unit	3,133	32.99%		2,601,849	10,153		256.26
Total	-	9,497	100.00%	\$	7,887,764			

The total fire impact fee is the sum of these three calculated fees, shown below in Exhibit 12.

Exhibit 12 Fire Impact Fee Schedule

Land Use Type	ting Fee	Future Fee Component	Total Fee	Unit of Development
Commercial	\$ 0.37	\$ 1.02	\$ 1.40	per Sq. Ft.
Office & Industrial	0.02	0.04	0.07	per Sq. Ft.
Schools	0.14	0.39	0.53	per Sq. Ft.
Health Care	0.88	2.37	3.24	per Sq. Ft.
Government	0.82	2.21	3.03	per Sq. Ft.
Single-Family	239.71	779.68	1,019.38	per Dwelling Unit
Multifamily	156.66	256.26	412.92	per Dwelling Unit

Finally, the calculated fire impact fees can be multiplied by anticipated growth to forecast the revenue the City will receive if it fully adopts the fire impact fee.



Exhibit 13 Fire Impact Fee Revenue Forecast

		Unit of		Existing Component	Future Component
Land Use Type	Total Fee	Development	Growth by 2035	Revenue	Revenue
Commercial	\$ 1.40	per Sq. Ft.	889,766	\$ 332,614	\$ 910,885
Office & Industrial	0.07	per Sq. Ft.	4,831,614	118,363	198,977
Schools	0.53	per Sq. Ft.	551,102	79,533	214,989
Health Care	3.24	per Sq. Ft.	450,269	394,105	1,065,320
Government	3.03	per Sq. Ft.	71,559	58,562	158,301
Single-Family	1,019.38	per Dwelling Unit	3,511	841,610	2,737,444
Multifamily	412.92	per Dwelling Unit	10,153	1,590,558	2,601,849
Total Revenue Generated				\$ 3,415,346	\$ 7,887,764

The total revenue generated is \$11.3 million. This represents 44% of the 2019-24 CIP shown in **Exhibit 8**.

FCS GROUP also surveyed neighboring jurisdictions to determine how the City's calculated fire impact fees fit into a regional context. The results of this survey are shown in **Exhibit 14**. Fire impact fees are not as common as other types of impact fees, but Kirkland's calculated fee is in line with those imposed by other Western Washington jurisdictions.

Exhibit 14
Fire Impact Fee Survey

	1 2				
City		SFR		MFR	
Issaquah	\$	2,213	\$	2,485	
Shoreline		2,187		1,895	
Kirkland		1,019		413	
Renton		830		965	
Redmond		125		149	
Sammamish		N/A		N/A	
Bellevue		N/A		N/A	
Sammamish		N/A		N/A	
Vancouver		N/A		N/A	



Section IV. PARKS IMPACT FEE

This section provides the detailed calculations of the maximum defensible parks impact fee. As the City already has an existing parks impact fee, this study uses the same investment-based methodology as was previously used. This approach is based on the total value of the City's park system, divided by the total applicable customer base. One change was made to the previous calculation. This impact fee uses residential equivalents (described below) that is added to the city population to account for the impacts of nonresidential development on City infrastructure.

IV.A. CUSTOMER BASE

The first step is to calculate the parks capital value per person, or the value of the existing system divided by the user base. The City currently defines the user base of its park system as the City's population. However, an alternative methodology is based on *residential equivalents*, which measures and includes the additional impact of employees of businesses within the City on the parks system. The calculation of residential equivalents is shown below.

IV.A.1. Residential Equivalents

To charge parks impact fees to both residential and non-residential developments, we must estimate both (1) how much availability non-residential occupants (i.e., employees) have to use parks facilities and (2) how that availability differs from residential occupants (i.e., residents).

The calculation begins with the most recent data for both population and employment in Kirkland. As shown below, in 2017 (the most recent year for which both population and employment data were available), 86,080 residents lived in Kirkland, and 47,834 employees worked in Kirkland. Of these, 5,484 people both lived and worked in Kirkland, as shown in **Exhibit 15.**

Exhibit 15
Residents and Employees in Kirkland (2017)

	Living Inside Kirkland	Living Outside Kirkland	Total
Working inside Kirkland	5,484	42,350	47,834
Working outside Kirkland	39,184		
Not working	41,412		
Total	86,080		

Source: WA OFM Population Statistics, US Census Bureau: OnTheMap Application

Next, we estimate the number of hours per week that each category of person would be available to use the parks facilities in Kirkland. For example, a resident of the City who was not working would have 112 hours per week available to use park facilities (7 days x 16 hours per day). The table below shows FCS GROUP's estimate of maximum time available for use. It is not an estimate of actual use.



Exhibit 16 Available Hours by Category

		J
Hours per Week of Park		
Availability per Person,	Living Inside	Living Outside
Residential Demand	Kirkland	Kirkland
Working inside Kirkland	72	N/A
Working outside Kirkland	72	N/A
Not working	112	N/A
Hours per Week of Park		
Availability per Person, Non-	Living Inside	Living Outside
Residential Demand	Kirkland	Kirkland
Working inside Kirkland	10	10
Working outside Kirkland	N/A	N/A
Not working	N/A	N/A
0 500 00000		

Source: FCS GROUP

When the hours of availability above are multiplied by the population and employee counts presented earlier, we can determine the relative parks demand of residents and employees. As shown in **Exhibit** 17, the parks demand of one employee is equivalent to the parks demand of 0.11 resident. Another way of understanding this is that the parks demand of 9.12 employees is equivalent to the parks demand of one resident.

Exhibit 17
Total Available Hours by Class

Total Hours per Week of Park	Residential	Non-Residential	
Availability, 2017	Hours	Hours	Total Hours
Working inside Kirkland	394,848	478,340	873,188
Working outside Kirkland	2,821,248		2,821,248
Not working	4,638,144		4,638,144
Total	7,854,240	478,340	8,332,580
Hours per resident	91.24		
Hours per employee		10.00)
Employee Residential Equivale	nt		0.110

Source: Previous tables

IV.A.2. Growth

The current (2020) demand for parks facilities is 96,121 residential equivalents. That number is the sum of 90,660 residents (based on the Washington State Office of Financial Management's official state population projections), and 5,461 residential equivalents for 49,832 employees. The number of employees is based on the 2017 number of employees, inflated to 2020 based on the City's planning data.

During the forecast period from 2020 to 2024, chosen to match the capital plan, residential population is expected to grow by 983 residents to a total of 91,643 residents. Population growth was forecast at 0.27 percent annually, and growth in employees forecast at 1.37 percent annually. As



shown in **Exhibit 18**, residential equivalents will grow by 1,289 residential equivalents to a total of 97,410 residential equivalents.

Exhibit 18 Growth in Residential Equivalents

				Growth from
	2017	2020	2024	2020 to 2024
Population	86,080	90,660	91,643	983
Employees	47,834	49,832	52,627	2,795
Residential Equivalent Employees	5,242	5,461	5,768	306
Total Residential Equivalents	91,322	96,121	97,410	1,289

As of the time of this report, the City had not determined whether to use residential equivalents as the customer base, which would allow it to charge nonresidential development, or to retain its current approach and charge only residential development. This report shows each calculation in parallel, so the differences between the two approaches are clear.

IV.B. IMPACT FEE CALCULATION

The next step is to calculate the capital value per person or residential equivalent. This study is based on the previous valuations of the City park system, inflated by the actual rise in property assessed values in Kirkland between 2014 and 2020 (80.74 percent). This is shown in **Exhibit 19**.



Exhibit 19a Park System Inventory

		2014	
		Improvement	
Name	Land Value	Value	2014 Total Value
132nd Square Park	\$ 466,000	\$ 2,462,121	\$ 2,928,121
Beach Property	45,000	-	45,000
Brookhaven Park	622,100	24,725	646,825
Carillon Woods	9,634,000	180,920	9,814,920
Cedar View Park	465,500	101,500	567,000
Cotton Hill Park	803,000	-	803,000
Crestwoods Park	13,784,500	2,457,493	16,241,993
David E. Brink Park	15,379,000	648,124	16,027,124
Edith Moulton Park	3,648,000	287,940	3,935,940
Everest Park	5,812,800	3,918,638	9,731,438
Forbes Creek Park	2,852,000	524,875	3,376,875
Forbes Lake Park	1,382,000	-	1,382,000
Heritage Park	16,215,500	2,091,641	18,307,141
Heronfield Wetlands	2,128,200	16,100	2,144,300
Highlands Park	1,271,000	351,584	1,622,584
Houghton Beach Park	30,150,000	2,238,895	32,388,895
Juanita Bay Park	25,880,200	4,886,922	30,767,122
Juanita Beach Park	10,752,000	9,210,079	19,962,079
Juanita Heights Park	1,168,000	5,600	1,173,600
Kingsgate Park	1,293,000	5,000	1,298,000
Kiwanis Park	8,282,000	16,000	8,298,000
Lake Ave W Street End Park	5,513,278	12,700	5,525,978
Marina Park	12,000,000	5,573,669	17,573,669
Mark Twain Park	624,000	874,062	1,498,062
Marsh Park	16,950,000	705,526	17,655,526
McAuliffe Park	2,888,800	523,408	3,412,208
Neil-Landguth Wetland Park	140,000	5,000	145,000
North Kirkland Com Ctr Park	3,172,800	7,196,029	10,368,829
North Rose Hill Woodlands Park	1,944,000	1,100,505	3,044,505
Ohde Avenue Pea Patch	666,000	2,250	668,250
Open Space 1138020240	189,000	-	189,000
Open Space 1437900440	1,000	-	1,000
Open Space 3295730200	1,000	-	1,000
Open Space 3326059150	988,000	-	988,000
Open Space 6639900214	177,000	-	177,000
Open Space 3326059136	1,060,900	-	1,060,900
Open Space 2426049132	651,000	-	651,000
Open Space 2540800430	1,000	-	1,000
Open Space 3261020380	5,000	-	5,000
Open Space 3275740240	1,000	-	1,000
Open Space 3754500950	476,000	-	476,000
Open Space 6619910290	240,000	-	240,000

		202	20	
		Inflated		
Infla	ited Land	Improvement	Additional CIP	2020 Total
	Value	Value	Improvements	Value
\$	842,264	\$ 4,450,121	\$ 9,058	\$ 5,301,444
	81,335	-		81,335
	1,124,405	44,688		1,169,093
	17,412,823	327,001		17,739,824
	841,361	183,455		1,024,815
	1,451,370	-		1,451,370
	24,914,579	4,441,756		29,356,336
	27,796,534	1,171,442		28,967,975
	6,593,521	520,433	1,878,356	8,992,310
	10,506,255	7,082,680	409	17,589,344
	5,154,803	948,677		6,103,480
	2,497,874	-	140,602	2,638,476
	29,308,452	3,780,504		33,088,956
	3,846,582	29,100		3,875,682
	2,297,249	635,465		2,932,714
	54,494,147	4,046,656		58,540,803
	46,776,764	8,832,790	2,759	55,612,312
	19,433,535	16,646,614	688,569	36,768,717
	2,111,083	10,122	736,033	2,857,238
	2,337,013	9,037		2,346,050
	14,969,172	28,919		14,998,091
	9,964,888	22,954		9,987,843
	21,689,213	10,074,040	11,798	31,775,051
	1,127,839	1,579,810		2,707,649
	30,636,013	1,275,192	18,937	31,930,142
	5,221,316	946,026		6,167,342
	253,041	9,037		262,078
	5,734,628	13,006,349		18,740,977
	3,513,652	1,989,091		5,502,743
	1,203,751	4,067		1,207,818
	341,605	-		341,605
	1,807	-		1,807
	1,807	-		1,807
	1,785,745	-		1,785,745
	319,916	-		319,916
	1,917,507	-		1,917,507
	1,176,640	-		1,176,640
	1,807	-		1,807
	9,037	-		9,037
	1,807	-		1,807
	860,339	-		860,339
	433,784	-		433,784



Exhibit 19b
Park System Inventory cont.

	1 41 K	System 1	nventory	u)III.			
		2014		2020				
					Inflated			
		Improvement			Inflated Land	Improvement	Additional CIP	2020 Total
Name	Land Value	Value	2014 Total Value		Value	Value	Improvements	Value
Open Space 7016100600	536,000	-	536,000		968,785	-		968,785
Open Space 7016300061	1,000	-	1,000		1,807	-		1,807
Open Space 7955060320	164,000	-	164,000		296,419	-		296,419
Open Space 9527000610	1,000	-	1,000		1,807	-		1,807
Open Space 1119000270	1,000	-	1,000		1,807	-		1,807
Open Space 3558910830	1,000	-	1,000		1,807	-		1,807
Peter Kirk Park	27,181,400	17,367,453	44,548,853		49,128,597	31,390,532	78,596	80,597,726
Phyllis A Needy - Houghton Nbr	422,000	363,653	785,653		762,737	657,278		1,420,015
Reservoir Park	718,000	150,300	868,300		1,297,738	271,657		1,569,395
Rose Hill Meadows	1,888,000	452,044	2,340,044		3,412,436	817,040		4,229,476
Settler's Landing	1,800,000	506,400	2,306,400		3,253,382	915,285		4,168,667
Snyders Corner Park	772,000	-	772,000		1,395,339	-		1,395,339
South Norway Hill Park	2,553,400	-	2,553,400		4,615,103	-		4,615,103
South Rose Hill Park	450,000	480,721	930,721		813,345	868,872		1,682,217
Spinney Homestead Park	3,896,000	718,878	4,614,878		7,041,764	1,299,324		8,341,088
Street End Park	299,891	-	299,891		542,033	-		542,033
Terrace Park	865,700	397,787	1,263,487		1,564,696	718,974	815	2,284,485
Tot Lot Park	763,000	138,205	901,205		1,379,072	249,796	4,372	1,633,241
Van Aalst Park	1,788,000	260,160	2,048,160		3,231,693	470,222		3,701,915
Watershed Park	10,248,900	-	10,248,900		18,524,214	-		18,524,214
Waverly Beach Park	6,605,500	1,761,240	8,366,740		11,939,008	3,183,325	1,301,710	16,424,042
Windsor Vista Park	977,000	-	977,000		1,765,863	-		1,765,863
Wiviott Property	131,000	-	131,000		236,774	-		236,774
Yarrow Bay Wetlands	3,209,600	-	3,209,600		5,801,141	-		5,801,141
Cross Kirkland Corridor Trail	1,000,000	4,102,560	5,102,560		1,807,434	7,415,108		9,222,542
2015 Dock Shoreline			-		-	-	106,060	106,060
2017 Neighborhood Park Land Acq			-		-	-	1,683,120	1,683,120
2013 Dock Shoreline			-		-	-	344,061	344,061
Totem Lk/CKC Land Acquisition			-		-	-	181,569	181,569
2016 Dock Shoreline			-		-	-	300,184	300,184
OO Denny Park Improvements			-		-	-	150,605	150,605
Parks Maintenance Center			-		-	-	10,816,907	10,816,907
PK Pool Liner Replacement			-		-	-	214,855	214,855
2017 Dock Shoreline			_		_	-	212,341	212,341
2018 Neighborhood Park Land Acqu			-	ĺ	_	-	65,124	65,124
2015 Dock Shoreline			_		_	-	328	328
Totem Lk/CKC Land Acquisition			_		_	-	125	125
Totem Lake Park Master Plan Ph. 1			-	ĺ	_	_	996,231	996,231
15/17/18 City School Partnership			-	ĺ	_	-	161,253	161,253
2018 City-School Partnership			-	ĺ	_	-	161,253	161,253
Neighborhood Park Land Acquisi			_	ĺ	_	_	3,000	3,000
[extra]			-	ĺ		_	0,000	-
Total	\$ 265,996,969	\$ 72,120,702	\$ 338,117,671	1	\$ 480,772,071	\$ 130,353,437	\$ 20.269.029	\$ 631,394,537
I VIIII	¥ 200,000,000	¥ 12,120,102	Ψ 000,117,071		\$ 400,112,011	¥ 100,000,401	20,203,023	¥ 001,007,001

As shown, the value of the park system has increased from about \$338 million to \$631 million. This results in an increase in the capital value per person or residential equivalent, as shown in **Exhibit** 20.

Exhibit 20 Capital Value per Person / Residential Equivalent

			Current Study (w/o			Current Study
	Pr	evious Study	no	onresidential)	(w/	nonresidential)
Value of Parks Inventory	\$	338,118,273	\$	631,394,537	\$	631,394,537
Population / Residential Equivalents		82,590		90,660		96,121
Capital Value Per Person / RE	\$	4,094	\$	6,964	\$	6,569

Now that the capital value per resident or residential equivalent has been calculated, the next step is to calculate the value of parks needed for growth. This is the capital value calculated above,



multiplied by the forecasted growth. This represents the total investment that is eligible to be recovered through impact fees.

Exhibit 21 Value Needed for Growth

			Current Study (w/o		Current Study	
	Pre	evious Study	noi	nresidential)	(w/n	onresidential)
Capital Value per Person / RE	\$	4,094	\$	6,964	\$	6,569
Growth of Population / REs		4,320		983		1,289
Investment Needed for Growth	\$	17,685,809	\$	6,843,223	\$	8,466,310

The investment needed for growth has decreased from the previous study, due to the relatively short remaining planning period, and an anticipated decrease in the population growth rate. However, these values also need to be adjusted for consistency with the CIP. Under Washington state law, impact fees can only recover the growth-related cost of CIP projects that add capacity to the park system. The City provided a list of projects that would be completed through 2024, as well as an estimate of how much of each project would increase the capacity of the park system. This is shown in **Exhibit 22**.

Exhibit 22 Capital Improvement Program

Project Number	Project Title	2019-2024 Total
PKC 04900	Open Space, Park Land & Trail Acq Grant Match Program	100,000
PKC 06600	Parks, Play Areas & Accessibility Enhancements	1,115,000
PKC 08711	Waverly Beach Park Renovation Phase II	515,000
PKC 11901	Juanita Beach Park Bathhouse Replacement	1,208,311
PKC 11903	Juanita Beach Park Playground	366,000
PKC 12100	Green Kirkland Forest Restoration Program	600,000
PKC 13310	Dock & Shoreline Renovations	1,660,000
PKC 13330	Neighborhood Park Land Acquisition	5,418,000
PKC 13400	132nd Square Park Playfields Renovation	5,672,200
PKC 13420	132nd Square Park Master Plan	135,000
PKC 13530	Juanita Heights Park Trail	243,800
PKC 13902	Totem Lake Park Development - Expanded Phase I	6,159,200
PKC 14200	Houghton Beach & Everest Park Restroom Repl. Design	85,000
PKC 14700	Parks Maintenance Center	2,958,351
PKC 15100	Park Facilities Life Cycle Projects	950,000
PKC 15400	Indoor Recreation & Aquatic Facility Study	160,000
PKC 15500	Finn Hill Neighborhood Green Loop Trail Master Plan	160,000
PKC 15600	Park Restrooms Renovation/Replacement Program	1,583,000
PKC 15700	Neighborhood Park Development Program	1,583,000
Total Funded Park Projects		30,671,862

Capacity Share	Eligible Cost
100%	\$ 100,000
0%	-
0%	-
13%	157,080
58%	212,280
0%	-
0%	-
100%	5,418,000
50%	2,836,100
80%	108,000
100%	243,800
90%	5,543,280
0%	-
14%	414,169
0%	-
100%	160,000
100%	160,000
0%	-
100%	1,583,000
Total	\$ 16,935,710

The total growth-related portion of the CIP is about \$16.9 million. As this value exceeds the investment needed for growth calculated in **Exhibit 21**, no adjustment is needed to reduce the investment needed for growth -- the adjustment percentage is 100 percent, as shown in **Exhibit 23**.



Exhibit 23 CIP Adjustment

			Cu	rrent Study (w/o	(Current Study
	Pro	evious Study	r	onresidential)	(w	/nonresidential)
Cost of CIP Projects that Add Capacity	\$	6,857,400	\$	16,935,710	\$	16,935,710
Investment Needed for Growth		17,685,809		6,843,223		8,466,310
Adjustment Percentage		39%		100%		100%

The penultimate step is to multiply the adjustment percentage by the capital value per person or residential equivalent calculated in **Exhibit 20**. This is the growth cost per person or residential equivalent, shown in **Exhibit 24**.

Exhibit 24
Growth Cost per Person / Residential Equivalent

			Curre	nt Study (w/o	Cı	urrent Study
	Prev	ious Study	non	residential)	(w/n	onresidential)
Capital Value per Person / RE	\$	4,094	\$	6,964	\$	6,569
Adjustment Percentage		39%		100%		100%
Growth Cost per Person / RE	\$	1,587	\$	6,964	\$	6,569

Finally, the growth cost per person or residential equivalent is multiplied by the Kirkland-specific average occupancy rates of various residential units or the residential equivalence (if applicable) to determine the parks impact fee.

Exhibit 25
Occupancy Rates by Dwelling Unit

	, e	
	Previous Study	
	Value	Current Study
Single-Family	2.5	2.5
Multi-Family	1.9	1.7
Residential Suite	N/A	0.9
Residential Equivalence	N/A	0.1

This results in the calculated impact fees shown below.

Exhibit 26 Impact Fee per Unit of Development

-	<u> </u>					
			Curre	nt Study (w/o	Curr	ent Study
	Previo	Previous Study		nonresidential)		residential)
Single-Family	\$	3,968	\$	17,496	\$	16,501
Multi-family		3,016		11,845		11,172
Residential Suite		N/A		6,268		5,912
Per Employee		N/A		N/A		720

The calculated impact fee represents a sizeable increase over the existing parks impact fee. This is driven primarily by the low growth forecasted within the city through 2024 (based on past projections), as well as the large increase in the assessed value of the parks system. Thus, the high impact fee appropriately reflects the high cost of developing new parks within Kirkland. It should be



reiterated that this represents the *maximum allowable impact fee*, and the City is not under any obligation to adopt the calculated fee.

Finally, FCS GROUP compared the calculated park impact fee to other regional jurisdictions.

Exhibit 27 Park Impact Fee Survey

rark impa	ici	ree Bui vey	
		Single Family	
Parks Impact Fee Comparison		Residence	Multi-Family
Kirkland (calculated maximum)	\$	16,501	\$ 11,172
Issaquah		9,107	5,591
Sammamish		6,739	4,362
Redmond		4,738	3,289
Kirkland (existing)		4,391	3,338
Shoreline		4,090	2,683
Renton		3,946	2,801
Vancouver		2,379	1,739
Bellevue		N/A	N/A

The calculated maximum for the City (including non-residential) is significantly higher than any other surveyed jurisdiction.



Section V. INDEXING

The City already annually indexes its impact fees to the *Engineering News-Record* Construction Cost Index. We recommend that the City continue this practice for its parks impact fee and institute it for its fire and EMS impact fee, as it provides an adjustment which at least partially responds to the cost basis over time. We also recommend that the City continue its practice of periodically updating its impact fees to ensure that they recover the full cost of growth's impacts on City facilities.

