NORTH SHORE WATER COMMISSION 2020 - 2039 APPROVED CAPITAL IMPROVEMENT PLAN

(Staffing Level: 1 Manager, 1 Foreman, 1 Technician Mechanic, 4 Relief Op/Tech, Interns and Gardners)
September 12, 2018

2020 - Capital Improvement Plan		\$1,335,000
Reservoir Improvements - Major Construction (2020-1)	РСТ	COST
Protective Isolation of Reservoirs #3 and #4	4%	\$50,000
Rehabilitate Reservoirs #1 and #2	65%	\$870,000
Overflow Pipe Installation	4%	\$50,000
Contingency	14%	\$190,000
Engineering	9%	\$115,000
Owner Admin / Legal	4%	\$60,000 \$1,335,000
		\$1,335,000
2021 - Capital Improvement Plan		\$164,000
Filter Improvements (2021-1)	РСТ	COST
Self-performed Labor	13%	\$12,000
Contracted Services	10%	\$10,000
Direct Purchase of Materials and Equipment	73%	\$70,000
Engineering	0%	\$0
Contingency	4%	\$4,000
		\$96,000
Security Camera Replacements (2021-2)	PCT	COST
Self-performed Labor	6%	\$2,000
Contracted Services	0%	\$0
Direct Purchase of Materials and Equipment	83%	\$30,000
Engineering	0%	\$0
Contingency	11%	\$4,000
		\$36,000
IT Improvements (2021-3)	PCT	COST
Self-performed Labor	6%	\$2,000
Contracted Services	0%	\$0
Direct Purchase of Materials and Equipment	88%	\$28,000
Engineering	0%	\$0
Contingency	6%	\$2,000 \$32,000
2022 - Capital Improvement Plan		\$154,000
Flat Roof Replacement (2022-1)	PCT	соѕт
Self-performed Labor	0%	\$0
Contracted Services	91%	\$100,000
Direct Purchase of Materials and Equipment	0%	\$100,000
Engineering	0%	\$0
Contingency	9%	\$10,000
g•,	570	\$110,000
Skylight Replacements (2022-2)	PCT	COST
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11% \$10,000
5% \$5,000 \$93,000
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rect Purchase of Materials and Equipment 73% \$35,00 ontingency 0% \$40 \$2,00 \$48,00 \$29 - Capital Improvement Plan \$278,00 \$278,00 \$278,00 \$278,00 \$38 \$35,	Self-performed Labor	13%	\$6,000
rect Purchase of Materials and Equipment 73% \$35,00 gineering 0% \$ Intingency 4% \$2,00 \$ 29 - Capital Improvement Plan \$278,00 \$ Interperformed Labor 0% \$ Interperformed Labor 0% \$ Interperformed Labor 0% \$ Interperformed Services 87% \$200,00 \$ Interpertormed Equipment 0% \$	Contracted Services	10%	\$5,000
regineering ontingency 0% \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Pirect Purchase of Materials and Equipment		\$35,000
29 - Capital Improvement Plan \$278,00	ingineering		\$(
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elf-performed Labor 0% \$ ontracted Services 87% \$200,00 rect Purchase of Materials and Equipment 0% \$	Basin 3 Rehabilitation (2029-1)	РСТ	COST
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Contingency	4%	\$10,000
		\$230,000
Filter Improvements (2029-2)	РСТ	COST
Self-performed Labor	13%	\$6,000
Contracted Services	10%	\$5,000
Direct Purchase of Materials and Equipment	73%	\$35,000
Engineering	0%	\$0
Contingency	4%	\$2,000 \$48,000
		,
2030 - Capital Improvement Plan		\$278,000
Basin 4 Rehabilitation (2030-1)	PCT	COST
Self-performed Labor	0%	\$0
Contracted Services	87%	\$200,000
Direct Purchase of Materials and Equipment	0%	\$0
Engineering	9%	\$20,000
Contingency	4%	\$10,000
		\$230,000
Filter Improvements (2030-2)	PCT	COST
Self-performed Labor	13%	\$6,000
Contracted Services	10%	\$5,000
Direct Purchase of Materials and Equipment	73%	\$35,000
Engineering	0%	\$0
Contingency	4%	\$2,000 \$48,000
2031 - Capital Improvement Plan		\$278,000
2031 - Oapital Improvement Flam		Ψ210,000
Basin 5 Rehabilitation (2031-1)	PCT	COST
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Self-performed Labor	0%	\$0
Contracted Services	87%	\$0 \$200,000
Contracted Services Direct Purchase of Materials and Equipment	87% 0%	\$0 \$200,000 \$0
Contracted Services Direct Purchase of Materials and Equipment Engineering	87% 0% 9%	\$0 \$200,000 \$0 \$20,000
Contracted Services Direct Purchase of Materials and Equipment	87% 0%	\$0 \$200,000 \$0
Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency	87% 0% 9% 4%	\$0 \$200,000 \$0 \$20,000 \$10,000
Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency Filter Improvements (2031-2)	87% 0% 9% 4% PCT	\$0 \$200,000 \$0 \$20,000 \$10,000 \$230,000
Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency Filter Improvements (2031-2) Self-performed Labor	87% 0% 9% 4% PCT 13%	\$0 \$200,000 \$0 \$20,000 \$10,000 \$230,000 COST \$6,000
Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency Filter Improvements (2031-2) Self-performed Labor Contracted Services	87% 0% 9% 4% PCT 13% 10%	\$0 \$200,000 \$0 \$20,000 \$10,000 \$230,000 COST \$6,000 \$5,000
Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency Filter Improvements (2031-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment	87% 0% 9% 4% PCT 13% 10% 73%	\$0 \$200,000 \$0 \$20,000 \$10,000 \$230,000 COST \$6,000 \$5,000 \$35,000
Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency Filter Improvements (2031-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering	87% 0% 9% 4% PCT 13% 10% 73% 0%	\$0 \$200,000 \$0 \$20,000 \$10,000 \$230,000 COST \$6,000 \$5,000 \$35,000
Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency Filter Improvements (2031-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment	87% 0% 9% 4% PCT 13% 10% 73%	\$0 \$200,000 \$0 \$20,000 \$10,000 \$230,000 COST \$6,000 \$5,000 \$35,000
Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency Filter Improvements (2031-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering	87% 0% 9% 4% PCT 13% 10% 73% 0%	\$0 \$200,000 \$0 \$20,000 \$10,000 \$230,000 COST \$6,000 \$5,000 \$35,000 \$0 \$2,000
Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency Filter Improvements (2031-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency 2032 - Capital Improvement Plan	87% 0% 9% 4% PCT 13% 10% 73% 0% 4%	\$0 \$200,000 \$0 \$20,000 \$10,000 \$230,000 COST \$6,000 \$5,000 \$35,000 \$2,000 \$48,000
Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency Filter Improvements (2031-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency 2032 - Capital Improvement Plan SCADA Hardware Replacement (2032-1)	87% 0% 9% 4% PCT 13% 10% 73% 0% 4%	\$0 \$200,000 \$0 \$20,000 \$10,000 \$230,000 COST \$6,000 \$5,000 \$35,000 \$2,000 \$48,000 \$328,000
Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency Filter Improvements (2031-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency 2032 - Capital Improvement Plan	87% 0% 9% 4% PCT 13% 10% 73% 0% 4%	\$0 \$200,000 \$0 \$20,000 \$10,000 \$230,000 COST \$6,000 \$5,000 \$35,000 \$2,000 \$48,000

Engineering	7%	\$20,000
Contingency	4%	\$10,000
		\$280,000
Filter Improvements (2032-2)	PCT	cos
Self-performed Labor	13%	\$6,000
Contracted Services	10%	\$5,000
Direct Purchase of Materials and Equipment	73%	\$35,000
Engineering	0%	. ,
Contingency	4%	\$2,000
		\$48,000
2033 - Capital Improvement Plan		\$176,000
SCADA Software Update (2033-1)	PCT	cos
Self-performed Labor	0%	\$(
Contracted Services	91%	\$100,000
Direct Purchase of Materials and Equipment	0%	\$(
Engineering	0%	\$(
Contingency	9%	\$10,000
		\$110,000
IT Improvements (2033-2)	PCT	COST
Self-performed Labor	6%	\$4,000
Contracted Services	0%	\$
Direct Purchase of Materials and Equipment	91%	\$60,000
Engineering	0%	\$(
Contingency	3%	\$2,000
		\$66,000
2034 - Capital Improvement Plan		\$196,000
Remaining Filter Improvements (2034-1)	PCT	COST
Self-performed Labor	13%	\$12,000
Contracted Services	10%	\$10,000
Direct Purchase of Materials and Equipment		\$70,000
DITECT LATORASE OF MATCHAIS AND EARISHIELD	73%	<i>31</i> U.UU
• •	73% 0%	
Engineering	0%	\$(
Engineering		\$0 \$4,000
Engineering Contingency	0%	\$4,000 \$96,00
Engineering Contingency	0% 4%	\$4,000 \$96,000 COST
Engineering Contingency Basin Valve Actuator Replacements (2034-2) Self-performed Labor	0% 4% PCT	\$4,000 \$96,000 COS- \$12,000
Engineering Contingency Basin Valve Actuator Replacements (2034-2)	0% 4% PCT 12%	\$4,000 \$96,000 COST \$12,000 \$10,000
Engineering Contingency Basin Valve Actuator Replacements (2034-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment	0% 4% PCT 12% 10% 70%	\$4,000 \$96,000 \$12,000 \$10,000 \$70,000
Engineering Contingency Basin Valve Actuator Replacements (2034-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering	0% 4% PCT 12% 10%	\$4,000 \$96,000 \$96,000 \$12,000 \$10,000 \$70,000 \$4,000
Engineering Contingency Basin Valve Actuator Replacements (2034-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering	0% 4% PCT 12% 10% 70% 4%	\$0,000 \$96,000 \$96,000 \$12,000 \$10,000 \$70,000 \$4,000 \$4,000
Engineering Contingency Basin Valve Actuator Replacements (2034-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency	0% 4% PCT 12% 10% 70% 4%	\$0 \$4,000 \$96,000 \$12,000 \$10,000 \$70,000 \$4,000 \$100,000
Engineering Contingency Basin Valve Actuator Replacements (2034-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency 2035 - Capital Improvement Plan	0% 4% PCT 12% 10% 70% 4%	\$70,000 \$4,000 \$96,000 \$12,000 \$10,000 \$4,000 \$4,000 \$100,000
Engineering Contingency Basin Valve Actuator Replacements (2034-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering	0% 4% PCT 12% 10% 70% 4% 4%	\$0 \$4,000 \$96,000 \$12,000 \$10,000 \$70,000 \$4,000 \$4,000 \$100,000

Direct Purchase of Materials and Equipment	0%	\$0
Engineering	9%	\$30,000
Contingency	3%	\$10,000
		\$340,000
2036 - Capital Improvement Plan		\$1,110,000
UV Equipment Upgrade (2036-1)	PCT	COST
Self-performed Labor	0%	\$0
Contracted Services	90%	\$1,000,000
Direct Purchase of Materials and Equipment	0%	\$0
Engineering	9%	\$100,000
Contingency	1%	\$10,000 \$1,110,000
2037 - Capital Improvement Plan		\$230,000
Plant Dehumidification System Upgrade (2037-1)	PCT	соѕт
Self-performed Labor	0%	\$0
Contracted Services	87%	\$200,000
Direct Purchase of Materials and Equipment	0%	\$0
Engineering	9%	\$20,000
Contingency	4%	\$10,000 \$230,000
2038 - Capital Improvement Plan		\$130,000
IT Improvements (2038-1)	PCT	COST
Self-performed Labor	6%	\$4,000
•		
	0%	· ·
Direct Purchase of Materials and Equipment	91%	\$60,000
Direct Purchase of Materials and Equipment Engineering	91% 0%	\$60,000 \$0
Direct Purchase of Materials and Equipment Engineering	91%	\$60,000 \$0 \$2,000
Contingency	91% 0% 3%	\$60,000 \$0 \$2,000 \$66,000
Direct Purchase of Materials and Equipment Engineering Contingency Security Camera Replacements (2038-2)	91% 0% 3% PCT	\$60,000 \$0 \$2,000 \$66,000
Direct Purchase of Materials and Equipment Engineering Contingency Security Camera Replacements (2038-2) Self-performed Labor	91% 0% 3% PCT 6%	\$60,000 \$0 \$2,000 \$66,000 COST \$4,000
Direct Purchase of Materials and Equipment Engineering Contingency Security Camera Replacements (2038-2) Self-performed Labor Contracted Services	91% 0% 3% PCT	\$60,000 \$0 \$2,000 \$66,000 COST \$4,000 \$0
Direct Purchase of Materials and Equipment Engineering Contingency Security Camera Replacements (2038-2) Self-performed Labor Contracted Services	91% 0% 3% PCT 6% 0%	\$60,000 \$0 \$2,000 \$66,000 COST \$4,000 \$0 \$50,000
Direct Purchase of Materials and Equipment Engineering Contingency Security Camera Replacements (2038-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering	91% 0% 3% PCT 6% 0% 78%	\$0 \$60,000 \$0 \$2,000 \$66,000 \$4,000 \$0 \$50,000 \$0 \$10,000
Direct Purchase of Materials and Equipment Engineering Contingency Security Camera Replacements (2038-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering	91% 0% 3% PCT 6% 0% 78% 0%	\$60,000 \$0 \$2,000 \$66,000 \$4,000 \$0 \$50,000 \$0 \$10,000 \$64,000
Direct Purchase of Materials and Equipment Engineering Contingency Security Camera Replacements (2038-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency	91% 0% 3% PCT 6% 0% 78% 0%	\$60,000 \$0 \$2,000 \$66,000 COST \$4,000 \$0 \$50,000
Direct Purchase of Materials and Equipment Engineering Contingency Security Camera Replacements (2038-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency 2039 - Capital Improvement Plan Generator Replacement at Klode Park (2039-1)	91% 0% 3% PCT 6% 0% 78% 0% 16%	\$60,000 \$0 \$2,000 \$66,000 \$4,000 \$0 \$50,000 \$0 \$10,000 \$64,000 \$145,000
Direct Purchase of Materials and Equipment Engineering Contingency Security Camera Replacements (2038-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency 2039 - Capital Improvement Plan Generator Replacement at Klode Park (2039-1) Self-performed Labor	91% 0% 3% PCT 6% 0% 78% 0% 16% PCT	\$60,000 \$0 \$2,000 \$66,000 \$4,000 \$50,000 \$10,000 \$64,000 \$145,000
Direct Purchase of Materials and Equipment Engineering Contingency Security Camera Replacements (2038-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency 2039 - Capital Improvement Plan Generator Replacement at Klode Park (2039-1) Self-performed Labor Contracted Services	91% 0% 3% PCT 6% 0% 78% 0% 16% PCT 0% 90%	\$60,000 \$0 \$2,000 \$66,000 \$4,000 \$0 \$50,000 \$10,000 \$64,000 \$145,000 \$0 \$130,000
Direct Purchase of Materials and Equipment Engineering Contingency Security Camera Replacements (2038-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency 2039 - Capital Improvement Plan Generator Replacement at Klode Park (2039-1) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment	91% 0% 3% PCT 6% 0% 78% 0% 16% PCT 0% 90% 0%	\$60,000 \$0 \$2,000 \$66,000 \$4,000 \$50,000 \$10,000 \$64,000 \$145,000 \$0 \$130,000 \$0
Direct Purchase of Materials and Equipment Engineering Contingency Security Camera Replacements (2038-2) Self-performed Labor Contracted Services Direct Purchase of Materials and Equipment Engineering Contingency 2039 - Capital Improvement Plan Generator Replacement at Klode Park (2039-1) Self-performed Labor Contracted Services	91% 0% 3% PCT 6% 0% 78% 0% 16% PCT 0% 90%	\$60,000 \$0 \$2,000 \$66,000 \$66,000 \$4,000 \$50,000 \$10,000 \$64,000 \$145,000 \$0 \$130,000

TOTAL EXPENDITURES	\$6,568,000
NUMBER OF YEARS	20
AVERAGE ANNUAL EXPENDITURES	\$328,400