

Appendix E

Evaluation of Alternative Solutions

John St. WWPS Environmental Assessment

Evaluation of Alternative Solutions

		- Valuation of Alternative Colutions				
	(CRITERIA FOR EVALUATING ALTERNATIVES	Alternative 1: Do Nothing	Alternative 2: Upgrade at the Existing Location with Emergency Storage and Overflow	Alternative 3: Replacement Station at the Existing Location with Emergency Storage and Overflow	Alternative 4: Replacement Station at a New Location with Emergency Storage and Overflow
Δ	N/	ATURAL ENVIRONMENT				
1	Ex	xisting trees and vegetation communities	No Impact to the existing tree and/or vegetation communities.	to impacts or removal. A Black Walnut-dominated mixed upland forest has been identified south of the existing pumping station. No impacts to this woodlot are expected. Mitigation in the form of replantings for removed individuals can be proposed. Emergency overflow option A will require the removal of trees within the Fresh - moist Red Oak - Sugar Maple Deciduous Forest adjacent to the Credit River. Mitigation in the form of replantings for removed individuals can be proposed. Additionally, a wetland complex of Floating-leaved Shallow Aquatic and sedge/Jewelweed dominated Meadow Marsh areas was identified around the open-water features south of the Credit River. These areas are protected by the Provincial Policy Statement, and the	Intersidewalk. Impacts will be minimized along John St. by conducting construction (trenchless) within the limits of the roadway to avoid interference with the trees root zone. An increased development footprint is required to replace the existing pumping station. As such, an increased number of trees adjacent to the existing pumping station will need to be removed. A Black Walnut-dominated mixed upland forest has been identified south of the existing pumping station. No impacts to this woodlot are expected. Mitigation in the form of replantings for removed individuals can be proposed. Emergency overflow options A will require the removal of trees within the Fresh - moist Red Oak - Sugar Maple Deciduous Forest adjacent to the Credit River. Mitigation in the form of replantings for removed individuals can be proposed. Additionally, a wetland complex of Floating-leaved Shallow Aquatic and sedge/Jewelweed dominated Meadow Marsh areas was identified around the open-water features south of the Credit River. These areas are protected by the Provincial Policy Statement, and the Halton Region Official Plan requires a 30 m development buffer around all wetland ecosites. No impacts are	
		Rating	\cap		permitted within this buffer.	
2	: A \	vian Wildlife	No Impact to breeding birds/Species at Risk/Area-sensitive birds.	Highest Impact to breeding birds/Species at Risk/Area-sensitive birds (Alts 2, 3 & 4 have equal impact). Impacts to Species at Risk and their habitat and area-sensitive (AS) birds within forested riparian corridor for all emergency overflow discharge options A,. Eastern Wood-pewee (Special Concern); White-breasted Nuthatch (AS); American Redstart (AS). Impacts to birds potentially breeding in landscaped trees or vegetation along the roadway. Contravention of the federal Migratory Birds Convention Act, 1994 can be mitigated by removing vegetation outside of the breeding bird window (broadly, April 1st to August 31st of any calendar year).	discharge option (A). Eastern Wood-pewee (Special Concern); White-breasted Nuthatch (AS); American Redstart (AS). Impacts to birds potentially breeding in landscaped trees or vegetation along the roadway. Contravention of the federal Migratory Birds Convention Act, 1994 can be mitigated by removing vegetation outside	Highest Impact to breeding birds/Species at Risk/Area-sensitive birds (Alts 2, 3 & 4 have equal impact) Impacts to Species at Risk and their habitat and area-sensitive (AS) birds within forested riparian corridor for emergency overflow discharge option D. Eastern Wood-pewee (Special Concern); White-breasted Nuthatch (AS); American Redstart (AS). Impacts to birds potentially breeding in landscaped trees or vegetation along the roadway. Contravention of the federal Migratory Birds Convention Act, 1994 can be mitigated by removing vegetation outside of the breeding bird window (broadly, April 1st to August 31st of any calendar year).
2	: Aı	mphibians (Frogs)	No impact to breeding amphibians or Species at Risk (SAR)	, , ,	impact is predicted. The overflow locations include several ponds which	Lowest impact at Alternative pumping station, Potential impacts to breeding amphibians at overflow location D (moderate). Impacts associated with the new location will not result in impacts to breeding frogs. No SAR were documented during the frog call surveys.
2	: Ba	216	No impact to roosting habitat for Species at Risk (SAR) bats or myotis anticipated.	proposed overflow location A. Little Brown Myotis and Northern Myotis will make use of mature trees that feature cavities, crevaces, or loose bark in which they can take shelter to roost. Tri-colored Bat roosts in the foliage of oak and maple species. All species are more likely to occur near/adjacent to wetter areas or sources of open water with high quality forage for invertebrates. The proposed overflow location will potentially result in the removal of cavity and/or oak and maple trees on the southern forested slope of the Credit River Valley. The removal of potential roosting habitat and the	Little Brown Myotis and Northern Myotis will make use of mature trees that feature cavities, crevaces, or loose bark in which they can take shelter to roost. Tri-colored Bat roosts in the foliage of oak and maple species. All species are more likely to occur near/adjacent to wetter areas or sources of open water with high quality forage for invertebrates. The proposed overflow location will potentially result in the removal of cavity and/or oak and maple trees on the southern forested slope of the Credit River Valley. The removal of potential roosting habitat and the fragmentation of continuous forest will result in a net loss/degradation of roosting habitat. No impacts to forest communities is anticipated at	at proposed overflow location D. Little Brown Myotis and Northern Myotis will make use of mature trees that feature cavities, crevaces, or loose bark in which they can take shelter to roost. Tri-colored Bat roosts in the foliage of oak and maple species. All species are more likely to occur near/adjacent to wetter
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Agoster nables Finding Findi						
In this better a few could now with control did colored from the control f	3	Aquatic habitat	No impact to aquatic habitat.	therefore no impact is anticipated.	therefore no impact is anticipated.	
Particul instance of other processor of a study companies of the processor of the pr				fish habitat and the Credit River which contains direct coldwater fish habitat. [Potentially look at new overflow location D. The new location could potentially minimize impact to aquatic habitat. Discharge pipe	fish habitat and the Credit River which contains direct coldwater fish habitat. [Potentially look at new overflow location D. The new location could potentially minimize impact to aquatic habitat. Discharge pipe	Credit River upstream of the Barber Paper Mill Dam (compared to A).
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Surface water quality and drainage To report to surface women quality and drainage and present to report						
Surface water quality and drainage No recel to out have worke quarity and command. Refing Coundwater quality Refing Refin		Rating	•			
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Rating	2 3 4	SUMMARY NATURAL ENVIRONMENT CRITERIA FOR EVALUATING ALTERNATIVES SOCIO-CULTURAL ENVIRONMENT Compatibility with surrounding land uses Rating Temporary disruption to local residents and community during construction Rating Visual / aesthetic impact on existing local residents and community Rating Health and safety of operations and maintenance staff	No impacts over existing conditions. Will not address the current system deficiencies. The system may become unsafe to operate and maintain and will eventually require replacement	Alternative 2: Upgrade at the Existing Location with Emergency Storage and Overflow Compatible with surrounding land use. Moderate short term impacts including disruptions to existing land uses, traffic, access and noise. Park use may be impacted. The upgrade at the existing location would not have a major visual/aesthetic impact on the local residents and the community as the front view of the lot will not subject to major changes through the upgrades. Safe to operate and maintain	Alternative 3: Replacement Station at the Existing Location with Emergency Storage and Overflow Compatible with surrounding land use. Moderate short term impacts including disruptions to existing land uses, traffic, access and noise. Park use may be impacted. The new pumping station at the current location would not have a major visual/aesthetic impact on the local residents and the community. Safe to operate and maintain	Alternative 4: Replacement Station at a New Location with Emergency Storage and Overflow Compatible with surrounding land use. Highest short term impacts including disruptions to existing land uses, traffic, access and noise due to extent of the construction work. Very wide disturbance area of local residence and community during construction and very high level of disturbance caused by deep and long linear work (excavation and emplacement of the re-direction of the flow to Victoria St. MH) Major Visual / aesthetic impact on existing local residents and community as the park and the playground may be gone and the pumping station will be occupying the whole lot. Safe to operate and maintain
	3 3 4	SUMMARY NATURAL ENVIRONMENT CRITERIA FOR EVALUATING ALTERNATIVES SOCIO-CULTURAL ENVIRONMENT Compatibility with surrounding land uses Rating Temporary disruption to local residents and community during construction Rating Visual / aesthetic impact on existing local residents and community Rating Health and safety of operations and maintenance staff Rating Ability to meet the needs of the local residents	No impacts over existing conditions. Will not address the current system deficiencies. The system may become unsafe to operate and maintain and will eventually require replacement Will not be able to address the local resident's, mainly the residents in the proximity of the pumping station, need for lowering the risk of sewer	Alternative 2: Upgrade at the Existing Location with Emergency Storage and Overflow Compatible with surrounding land use. Moderate short term impacts including disruptions to existing land uses, traffic, access and noise. Park use may be impacted. The upgrade at the existing location would not have a major visual/aesthetic impact on the local residents and the community as the front view of the lot will not subject to major changes through the upgrades. Safe to operate and maintain Will be able to address the local resident's, mainly the residents in the proximity of the pumping station, need for lowering the risk of sewer	Alternative 3: Replacement Station at the Existing Location with Emergency Storage and Overflow Compatible with surrounding land use. Moderate short term impacts including disruptions to existing land uses, traffic, access and noise. Park use may be impacted. The new pumping station at the current location would not have a major visual/aesthetic impact on the local residents and the community. Safe to operate and maintain Will be able to address the local resident's, mainly the residents in the proximity of the pumping station, need for lowering the risk of sewer	Alternative 4: Replacement Station at a New Location with Emergency Storage and Overflow Compatible with surrounding land use. Highest short term impacts including disruptions to existing land uses, traffic, access and noise due to extent of the construction work. Very wide disturbance area of local residence and community during construction and very high level of disturbance caused by deep and long linear work (excavation and emplacement of the re-direction of the flow to Victoria St. MH) Major Visual / aesthetic impact on existing local residents and community as the park and the playground may be gone and the pumping station will be occupying the whole lot. Safe to operate and maintain Will be able to address the local resident's, mainly the residents in the proximity of the pumping station, need for lowering the risk of sewer

6	Provision for emergency services	No impacts over existing conditions.	Temporary disruption to emergency services and access due to increased traffic and construction .	Temporary disruption to emergency services and access due to increased traffic and construction .	Temporary disruption to emergency services and access due to increased traffic and construction. Higher impact compared to alternative 2 and 3 due to the extent/duration of the construction.
	Rating	0	()	•	•
7	Long term impact on local residents and community (operation activities, noise and odour)	1 '		Minimal impact due to the considerations made for the new pumping station to minimize the disruption to local residents and community	Minimal impact due to the considerations made for the new pumping station to minimize the disruption to local residents and community
	Rating	0	•	•	•
8	Impacts to archaeological resources	No impacts over existing conditions.	No impacts anticipated for the work associated with pumping station upgrade as all work to be conducted in previously disturbed area on the existing site. Potential significant impacts to archaeological resources where emergency overflow discharge options are being considered. Pending Stage 2 Archaeological Study at the detailed design stage.	No impacts anticipated for the work associated with pumping station as all work to be conducted in previously disturbed area on the existing site Potential significant impacts to archaeological resources where emergency overflow discharge options are being considered and location of new pumping station, if beyond footprint of current pumping station site. Pending Stage 2 Archaeological Study at the detailed design stage.	Potential significant impacts to archaeological resources where emergency overflow discharge options are being considered and at location of new pumping station. Pending Stage 2 Archaeological Study at the detailed design stage.
	Rating	\bigcirc			
9	Impacts on Indigenous lands, treaty rights, archaeological sites, and land claims	No impacts over existing conditions.	No impacts on Indigenous lands, treaty rights, archaeological sites have been identified.	No impacts on Indigenous lands, treaty rights, archaeological sites have been identified.	No impacts on Indigenous lands, treaty rights, archaeological sites have been identified.
	Rating	0	0	0	0
	SUMMARY SOCIO-CULTURAL ENVIRONMENT	•	•	•	0
	CRITERIA FOR EVALUATING ALTERNATIVES	Alternative 1: Do Nothing	Alternative 2: Upgrade at the Existing Location with Emergency Storage and Overflow	Alternative 3: Replacement Station at the Existing Location with Emergency Storage and Overflow	Alternative 4: Replacement Station at a New Location with Emergency Storage and Overflow
С	LEGAL AND JURISTICTIONAL ENVIRONMENT				
1	Supports planned development (Planning permits)	No impacts over existing conditions.	Supports planned development	Supports planned development	Supports planned development
	Rating	0	0	0	\bigcirc
2	Land acquisition/easement requirements/complexity	No impacts over existing conditions.	Easement required over private property for emergency overflow, Land Acquisition / Easement for WWPS	Easement required over private property for emergency overflow, Land Acquisition / Easement for WWPS	Easement may be required over private property for emergency overflow, Land Acquisition / Easement for WWPS
	Rating	0	•	•	0
3	Complexity of approval processes and ability to meet regulatory constraints	No approvals permits or regulatory constraints.	Potential permits may be needed including but not limited to: - CVC permit for working in the regulated area - DFO request for review/authorization - MOECC ECA (pumping station) - Town of Halton Hills (site and building permits) - MNRF approval under public lands act	Potential permits may be needed including but not limited to: - CVC permit for working in the regulated area - DFO request for review/authorization - MOECC ECA (pumping station) - Town of Halton Hills (site and building permits) - MNRF approval under public lands act	Potential permits may be needed including but not limited to: - CVC permit for working in the regulated area - DFO request for review/authorization - MOECC ECA (pumping station) - Town of Halton Hills (site and building permits) - MNRF approval under public lands act
	Rating	0	0	0	0
	SUMMARY LEGAL AND JURISTICTIONAL ENVIRONMENT	0	•	•	•
	CRITERIA FOR EVALUATING ALTERNATIVES	Alternative 1: Do Nothing	Alternative 2: Upgrade at the Existing Location with Emergency Storage and Overflow	Alternative 3: Replacement Station at the Existing Location with Emergency Storage and Overflow	Alternative 4: Replacement Station at a New Location with Emergency Storage and Overflow
D	TECHNICAL/OPERATIONAL ENVIRONMENT				
1	Ease/complexity of Construction	No complexity associated with this alternative.	complexity associated with upgrades and compatibility with the old	The facility must remain fully operational while the new facility is being constructed posing constructability challenges as the current site may be part of the needed footprint for the new facility.	Deep long new forcemains would substantially add to the potential complexity of the construction
	Rating	0		•	
2	Reliability	Since the current facility does not provide adequate emergency storage and an emergency overflow, in case of any major storm events the facility provides minimal reliability with high risk of system failure and sewage surcharge increase	The upgrades will eliminate the major risk associated with storm events.	The new facility will eliminate the major risk associated with storm events.	The new facility will eliminate the major risk associated with storm events.
	Rating		0	0	0
3	Ability to meet Halton Region's latest wastewater pumping station design standards	Does not meet the Halton Region's latest wastewater pumping station design standards in various aspects	Will meet the Halton Region's latest wastewater pumping station design standards provided that a twin forcemains, emergency storage, and emergency overflow be considered as part of the upgrades.	Will meet the Halton Region's latest wastewater pumping station design standards	Nill meet the Halton Region's latest wastewater pumping station design standards
	Rating		\bigcirc	0	0

4 Implementation phasing No impacts over existing conditions. Rating Ability to maximize existing infrastructure No impacts over existing conditions. Will partially provide the opportunity to use of the existing infrastructure and assets. Could maximize the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities.	have to be staged such that the new PS is indalone unit and capable of operating independent ess equipment and electrical use of the existing infrastructure and assets toward is standards. Some existing components and ble as part of the new pumping station	construction staging and existing facility can remain operational with relative ease during construction. However, there might be some minimal phasing required through the linear work stage of the construction
Rating Mill partially provide the opportunity to use of the existing infrastructure and assets. Rating Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities.	use of the existing infrastructure and assets toward is standards. Some existing components and ble as part of the new pumping station	
5 Ability to maximize existing infrastructure No impacts over existing conditions. Will partially provide the opportunity to use of the existing infrastructure and assets. Will partially provide the opportunity to use of the existing infrastructure meeting the Region's systems maybe usab Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities.	s standards. Some existing components and ble as part of the new pumping station	
5 Ability to maximize existing infrastructure No impacts over existing conditions. Will partially provide the opportunity to use of the existing infrastructure and assets. Meeting the Region's systems maybe usab Potential impact on the underground utilities. Potential impacts through Potential impact on the underground utilities.	s standards. Some existing components and ble as part of the new pumping station	
Potential impact on the underground utilities. Potential impacts through Potential impact on t		There would not be any opportunity to maximize the existing infrastructure.
6 Impacts to utilities No impacts over existing conditions. The trenchless construction will remain within the limits of the roadway The trenchless construction will remain within the limits of the roadway	of the emergency overflow. struction will remain within the limits of the roadway hydropoles are anticipated to be sufficiently setback	on John St, Mountainview Rd., and River Dr., existing hydropoles are anticipated to be sufficiently setback that impacts are expected to be
Rating		minimal.
7 Complexity/ease of operation and maintenance The operation and maintenance may become more complex as the pumping The upgrades and meeting the Region's design standards will minimize The design of the new	ew pumping station and meeting the Region's design nize the complexity of the O&M for this alternative.	The design of the new pumping station and meeting the Region's design standards will minimize the complexity of the O&M for this alternative. However, the additional/longer linear work would result in increased maintenance.
Rating		
SUMMARY TECHNICAL/OPERATIONAL ENVIRONMENT	•	0
LIGHTERIA FOR EVALUATING ALTERNATIVES L. AITOFNATIVO 1: LIO NOTINIO.	: Replacement Station at the Existing th Emergency Storage and Overflow	Alternative 4: Replacement Station at a New Location with Emergency Storage and Overflow
E ECONOMIC ENVIRONMENT		
	st + pumping station decommissioning cost. as well ncy storage and overflow (plus the addition of twin	High capital cost considering the current elevations, as the depth and the length (including the twin forcemain) of the linear work would
	, ,	substantially add to the capital cost. The new twin service mains should be directed to the to Victoria and John st. MH
Rating		substantially add to the capital cost. The new twin service mains should be directed to the to Victoria and John st. MH
2 Lifecycle [capital + O&M] cost profile Life cycle cost will be incurred due to operational and safety risks, and maintaining aged equipment Lower life cycle cost due to the longest service life Costly, compare to alt	t due to the longest service life (only slightly more	
Life cycle cost will be incurred due to operational and safety risks, and Life cycle cost will be incurred due to operational and safety risks, and Lowest life cycle cost due to the longest service life Lower life cycle cost due to the longest service life	t due to the longest service life (only slightly more	be directed to the to Victoria and John st. MH High life cycle cost (compared to alternative 2 and 3) . Higher O&M
2 Lifecycle [capital + O&M] cost profile Life cycle cost will be incurred due to operational and safety risks, and maintaining aged equipment Rating Moderate potential impacts during the construction phase mainly due to the excavation/installation of the emergency overflow, specifically to the the excavation/installation of the emergency overflow, specifically to the the excavation/installation of the emergency overflow, specifically to the the excavation/installation.	t due to the longest service life (only slightly more alternative 2)	be directed to the to Victoria and John st. MH High life cycle cost (compared to alternative 2 and 3) . Higher O&M
2 Lifecycle [capital + O&M] cost profile Life cycle cost will be incurred due to operational and safety risks, and maintaining aged equipment Rating Moderate potential impacts during the construction phase mainly due to the excavation/installation of the emergency overflow, specifically to the the excavation/installation of the emergency overflow, specifically to the the excavation/installation.	t due to the longest service life (only slightly more liternative 2) mpacts during the construction phase mainly due to llation of the emergency overflow, specifically to the	be directed to the to Victoria and John st. MH High life cycle cost (compared to alternative 2 and 3) . Higher O&M related to additional forcemain and gravity, Highest impacts during the construction phase mainly due to the excavation/installation of the emergency overflow as well as the new forcemain from Old Mill Park up through mountainview to John St. and Victoria MH. The construction may involve deep excavation and wider ditruption due to the length of the new forcemains and more complex
2 Lifecycle [capital + O&M] cost profile Life cycle cost will be incurred due to operational and safety risks, and maintaining aged equipment Lowest life cycle cost due to the longest service life Lower life cycle cost octor, compare to alt Rating Moderate potential impacts during the construction phase mainly due to the excavation/installation of the emergency overflow, specifically to the businesses located at John st. and mountainview. Moderate potential impacts during the construction phase mainly due to the excavation/installation of the emergency overflow, specifically to the businesses located at John st. and mountainview.	t due to the longest service life (only slightly more liternative 2) mpacts during the construction phase mainly due to llation of the emergency overflow, specifically to the at John st. and Mountainview.	be directed to the to Victoria and John st. MH High life cycle cost (compared to alternative 2 and 3) . Higher O&M related to additional forcemain and gravity, Highest impacts during the construction phase mainly due to the excavation/installation of the emergency overflow as well as the new forcemain from Old Mill Park up through mountainview to John St. and Victoria MH. The construction may involve deep excavation and wider ditruption due to the length of the new forcemains and more complex
Life cycle [capital + O&M] cost profile Life cycle cost will be incurred due to operational and safety risks, and maintaining aged equipment Rating Moderate potential impacts during the construction phase mainly due to the excavation/installation of the emergency overflow, specifically to the businesses located at John st. and mountainview. Rating Moderate potential impacts during the construction phase mainly due to the excavation/installation of the emergency overflow, specifically to the businesses located at John st. and mountainview. Rating	t due to the longest service life (only slightly more alternative 2) mpacts during the construction phase mainly due to allation of the emergency overflow, specifically to the at John st. and Mountainview.	be directed to the to Victoria and John st. MH High life cycle cost (compared to alternative 2 and 3) . Higher O&M related to additional forcemain and gravity, Highest impacts during the construction phase mainly due to the excavation/installation of the emergency overflow as well as the new forcemain from Old Mill Park up through mountainview to John St. and Victoria MH. The construction may involve deep excavation and wider ditruption due to the length of the new forcemains and more complex
2 Lifecycle [capital + O&M] cost profile Lifecycle [capital + O&M] cost profile Life cycle cost will be incurred due to operational and safety risks, and maintaining aged equipment Lower life cycle cost due to the longest service life Lower life cycle cost costly, compare to alternative of the cycle cost due to the longest service life Lower life cycle	t due to the longest service life (only slightly more alternative 2) mpacts during the construction phase mainly due to allation of the emergency overflow, specifically to the at John st. and Mountainview.	be directed to the to Victoria and John st. MH High life cycle cost (compared to alternative 2 and 3) . Higher O&M related to additional forcemain and gravity, Highest impacts during the construction phase mainly due to the excavation/installation of the emergency overflow as well as the new forcemain from Old Mill Park up through mountainview to John St. and Victoria MH. The construction may involve deep excavation and wider ditruption due to the length of the new forcemains and more complex
2 Lifecycle [capital + O&M] cost profile Life cycle cost will be incurred due to operational and safety risks, and maintaining aged equipment Lowest life cycle cost due to the longest service life Lower life cycle cost costly, compare to all Rating	t due to the longest service life (only slightly more liternative 2) mpacts during the construction phase mainly due to llation of the emergency overflow, specifically to the at John st. and Mountainview. Replacement Station at the Existing	High life cycle cost (compared to alternative 2 and 3) . Higher O&M related to additional forcemain and gravity, Highest impacts during the construction phase mainly due to the excavation/installation of the emergency overflow as well as the new forcemain from Old Mill Park up through mountainview to John St. and Victoria MH. The construction may involve deep excavation and wider ditruption due to the length of the new forcemains and more complex process and would last longer compare to the other alternatives. Alternative 4: Replacement Station at a New
2 Lifecycle [capital + O&M] cost profile Life cycle cost will be incurred due to operational and safety risks, and maintaining aged equipment Rating Moderate potential impacts during the construction phase mainly due to the excavation/installation of the emergency overflow, specifically to the businesses located at John st. and mountainview. Rating SUMMARY ECONOMIC ENVIRONMENT Alternative 1: Do Nothing Alternative 2: Upgrade at the Existing Location with Emergency Storage and Overflow Alternative 3: Location with Emergency Storage and Overflow Alternative 3: Location with Emergency Storage and Overflow	mpacts during the construction phase mainly due to llation of the emergency overflow, specifically to the at John st. and Mountainview. Replacement Station at the Existing the Emergency Storage and Overflow	High life cycle cost (compared to alternative 2 and 3) . Higher O&M related to additional forcemain and gravity, Highest impacts during the construction phase mainly due to the excavation/installation of the emergency overflow as well as the new forcemain from Old Mill Park up through mountainview to John St. and Victoria MH. The construction may involve deep excavation and wider ditruption due to the length of the new forcemains and more complex process and would last longer compare to the other alternatives. Alternative 4: Replacement Station at a New Location with Emergency Storage and Overflow

Preferred

Preferred

Preferred

SUMMARY Adherence to Problem and Opportunity Statement

Not Preferred

CRITERIA FOR EVALUATING ALTERNATIVES	Alternative 1: Do Nothing	Alternative 2: Upgrade at the Existing Location with Emergency Storage and Overflow	Alternative 3: Replacement Station at the Existing Location with Emergency Storage and Overflow	Alternative 4: Replacement Station at a New Location with Emergency Storage and Overflow
OVERALL SUMMARY	Not Preferred	More Preferred	Most Preferred	Least Preferred

ORDER OF PREFERENCE

Most Preferred O

More Preferred

Somewhat Preferred ①

Less Preferred

Least Preferred