

Q.5.3 - Drainage and Surface Water Quality

The following impact evaluation is based on the environmental setting, regulatory setting, and thresholds of significance discussions provided for the proposed projects in Draft EIR Section 5.3, Drainage and Surface Water Quality, and in Appendix D-1, Expanded Drainage and Surface Water Quality Analysis. These previous discussions are not repeated in the following evaluation. The evaluation is a comparative analysis between the Preferred Project and Proposed Project 4.

Water Quality Standards and Requirements

Q5.3-A: **The proposed projects would not violate any water quality standards or waste discharge requirements.**

Project Specific Impact Analysis

Collection System

Similar to Proposed Project 4, the collection system under the Preferred Project is a gravity system. As described in Table Q.5-1, the Preferred Project includes additional collection system facilities such as pump stations, standby power stations, and pipelines, as well as modifications to specific locations and size of facilities such as the central pump station, pipelines within streets, and pipelines crossings over Los Osos Creek and Warden Creek compared to Proposed Project 4. Based on a review of the additions and modifications of the collection system facilities, the construction activities associated with the Preferred Project would result in less than significant impacts on water quality standards. During the long-term operational activities, the Preferred Project would not result in a violation of any water quality standards or discharge requirements, similar to Proposed Project 4.

Treatment Plant Site

Short Term Construction Impacts

Similar to Proposed Project 4, the proposed treatment plant facilities under the Preferred Project include treatment facilities, appurtenant structures and storage facilities located on the Tonini parcel. As described in Table Q.5-1, the Preferred Project will include an Oxidation Ditch or Biolac® facility that encompasses less area and requires substantially less grading than the facultative ponds proposed under Proposed Project 4. Based on the revisions to the proposed treatment process, implementation of the Preferred Project includes construction activities that would not violate any water quality standards or waste discharge requirements, similar to Proposed Project 4.

Long-term Operational Impacts

Similar to Proposed Project 4, the proposed treatment plant facilities under the Preferred Project include treatment facilities, appurtenant structures and storage facilities located on the Tonini parcel. As described in Table Q.5-1, the Preferred Project will include an Oxidation Ditch or Biolac® facility that encompasses less area and requires substantially less grading than the facultative ponds proposed under Proposed Project 4. The discharge of stormwater outside of the treatment plant would be conveyed through a drainage channel, into a drainage structure and discharged into the creek through a storm drainage outfall via an energy dissipater. Based on the revisions to the proposed treatment process as well as the addition of the drainage facility that conveys stormwater around the treatment

facilities, the Preferred Project would not violate any water quality standards or waste discharge requirements, similar to Proposed Project 4.

Disposal Sites

Similar to Proposed Project 4, the proposed disposal systems under the Preferred Project include sprayfields at the Tonini parcel and leachfields at the Broderson parcel. Under the Preferred Project, the type of spray was revised to exclude percolation and as a result, approximately 73 more acres of sprayfields are proposed to accommodate the 842 acre-feet of spray at Tonini compared to Proposed Project 4. Based on a review of the increase in sprayfield area, the implementation of the existing federal, State, and County stormwater regulations as well as the incorporation of design features of the Preferred Project, would result in no violations to water quality standards and waste discharge requirements. Therefore, implementation of the Preferred Project would result in less than significant impacts associated with water quality standards and waste discharge requirements.

Combined Project Effects

Similar to Proposed Project 4, the individual construction and operation of the facilities associated with the Preferred Project collection system, treatment plant site, and disposal sites would not violate any water quality standards or waste discharge requirements and therefore, result in less than significant impact. Construction and long-term operational activities associated with the proposed facilities would result in a combined effect related to water quality standards or waste discharge requirements; however, the combined effects would be less than significant since the construction and operational activities associated with each project component would not violate water quality standards or waste discharge requirements.

Cumulative Impact Analysis

Similar to Proposed Project 4, the Preferred Project would not contribute to cumulative impacts related to water quality standards and requirements.

Mitigation Measures

Project-Specific

No mitigation measures are required.

Cumulative

No mitigation measures are required.

Level of Significance After Mitigation

Project-Specific

Less than Significant.

Cumulative

No impact.

Drainage Pattern: Erosion or Siltation

Q5.3-B: The proposed projects would not substantially alter the existing drainage pattern or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site.

Project Specific Impact Analysis

Collection System

Similar to Proposed Project 4, the collection system under the Preferred Project is a gravity system that consists of a combination of conventional gravity sewers (GS) and low-pressure grinder pumps (LPGP). As described in Table Q.5-1, the Preferred Project includes additional collection system facilities such as pump stations, standby power stations, and pipelines, as well as modifications to specific locations and size of facilities such as the central pump station, pipelines within streets, and pipelines crossing creeks compared to Proposed Project 4. Based on a review of the additions and modifications of the collection system facilities, the Preferred Project would expose sediment to stormwater, increasing the potential for erosion or siltation on-site or off-site, similar to Proposed Project 4. However, construction activities would implement BMPs that would ensure that construction and operational activities associated with the collection system would not result in substantial erosion or siltation on-site or off-site. Therefore, similar to Proposed Project 4 impacts would be less than significant.

Treatment Plant Site

Similar to Proposed Project 4, the proposed treatment plant facilities under the Preferred Project include treatment facilities, appurtenant structures and storage facilities located on the Tonini parcel. As described in Table Q.5-1, the Preferred Project will include an Oxidation Ditch or Biolac® facility that encompasses less area and requires substantially less grading than the facultative ponds proposed under Proposed Project 4. The discharge of stormwater outside of the treatment plant would be conveyed through a drainage channel, into a drainage structure and discharged into the creek through a storm drainage outfall. The outfall includes an energy dissipater to reduce the potential for erosion. Based on the revisions to the facilities at the treatment plant, the volume of stormwater discharge leaving the site after construction of the Preferred Project would not be greater than pre-development discharge. The adherence to design requirements (including those outlined in the CZLUO and the County Standards), as well as to permit conditions established by the USACE, RWQCB, or CDFG, would result in the project not substantially altering the existing drainage pattern of the site in a manner which would result in substantial erosion or siltation on-site or off-site. Therefore, similar to Proposed Project 4 less than significant impacts would occur under the Preferred Project.

Disposal Sites

Similar to Proposed Project 4, the proposed disposal systems under the Preferred Project include sprayfields at the Tonini parcel and leachfields at the Broderson parcel. Under the Preferred Project, the type of spray was revised to exclude percolation and as a result approximately 73 more acres of sprayfields are proposed to accommodate the 842 acre-feet of spray at Tonini compared to Proposed Project 4. Based on a review of the increase in sprayfield area, the revision to the type of spray to

evapotranspiration, and the removal of the berms identified under Proposed Project 4, the proposed facilities under the Preferred Project would result in the same less than significant impacts associated with erosion or siltation as Proposed Project 4.

Combined Project Effects

Similar to Proposed Project 4, the construction and operation of the facilities associated with the Preferred Project would result in a combined effect related to existing drainage patterns; however, the combined effects would be less than significant since the construction and operational activities associated with each project component would result in less than significant effects on the existing drainage patterns, and therefore, less than significant erosion or siltation would occur onsite or offsite.

Cumulative Impact Analysis

Similar to Proposed Project 4, the Preferred Project would not contribute to cumulative impacts related to drainage patterns and erosion or siltation.

Mitigation Measures

Project-Specific

No mitigation measures are required.

Cumulative

No mitigation measures are required.

Level of Significance After Mitigation

Project-Specific

Less than Significant.

Cumulative

No impact.

Drainage Pattern: Flooding

Q5.3-C: The proposed projects would not substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site.

Project Specific Impact Analysis

Collection System

Similar to Proposed Project 4, the collection system under the Preferred Project is a gravity system. As described in Table Q.5-1, the Preferred Project includes additional collection system facilities such as pump stations, standby power stations, and pipelines, as well as modifications to specific locations and size of facilities such as the central pump station, pipelines within streets, and pipelines crossing creeks compared to Proposed Project 4. Based on a review of the additions and modifications of the collection system facilities, the Preferred Project would generate negligible, if any, additional surface

water runoff and would not substantially increase the rate or amount of surface runoff in a manner which would result in flooding on-site or off-site.

Treatment Plant Site

Similar to Proposed Project 4, the proposed treatment plant facilities under the Preferred Project include treatment facilities, appurtenant structures and storage facilities located on the Tonini parcel. As described in Table Q.5-1, the Preferred Project will include an Oxidation Ditch or Biolac® facility that encompasses less area and requires substantially less grading than the facultative ponds proposed under Proposed Project 4. Based on the revisions to the proposed revisions at the treatment plant, the potential impacts caused by construction and operation of the treatment plant site system are generally described above under Impact Q5.3-B and would not substantially increase the rate or amount of surface runoff in a manner which would result in flooding on-site or off-site.

Disposal Sites

Similar to Proposed Project 4, the proposed disposal systems under the Preferred Project include sprayfields at the Tonini parcel and leachfields at the Broderson parcel. Under the Preferred Project, the type of spray was revised to exclude percolation and as a result approximately 73 more acres of sprayfields are necessary to accommodate the 842 acre-feet of spray at Tonini compared to Proposed Project 4. Based on a review of the increase in sprayfield area, the potential construction and operation impacts associated with the proposed disposal sites would be the same as described above under Impact Q5.3-B and would not substantially increase the rate or amount of surface runoff in a manner which would result in flooding on-site or off-site.

Combined Project Effects

Similar to Proposed Project 4, the construction and operation of the facilities associated with the collection system, treatment plant site, and disposal sites under the Preferred Project would not substantially alter the existing drainage patterns in the respective areas in a manner that would result in a substantial increase in the rate or amount of surface water runoff that would result in flooding. Construction and long-term operational activities associated with the proposed facilities could result in a combined effect related to increasing the rate or amount of runoff; however, the combined effects would be less than significant since negligible collection facilities would remain above ground, the treatment plant site would contain all storm water, and the disposal sites would be operated so that no substantial increase in the rate or amount of surface water runoff would occur.

Cumulative Impact Analysis

Similar to Proposed Project 4, the Preferred Project would not contribute to cumulative impacts related to drainage patterns and flooding.

Mitigation Measures

Project-Specific

No mitigation measures are required.

Cumulative

No mitigation measures are required.

Level of Significance After Mitigation

Project-Specific

Less than Significant.

Cumulative

No impact.

Runoff Water and Drainage Systems

Q5.3-D:	The proposed projects would not create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.
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Project Specific Impact Analysis

Collection System

Similar to Proposed Project 4, the collection system under the Preferred Project is a gravity system. As described in Table Q.5-1, the Preferred Project includes additional collection system facilities such as pump stations, standby power stations, and pipelines, as well as modifications to specific locations and size of facilities such as the central pump station, pipelines within streets, and pipelines crossing creeks compared to Proposed Project 4. Potential impacts caused by construction and operation of the collection system are generally described above under Impact Q5.3-A, as well as Impact Q5.3-B. Based on a review of the additions and modifications of the collection system facilities, the Preferred Project would not exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.

Treatment Plant Site

Similar to Proposed Project 4, the proposed treatment plant facilities under the Preferred Project include treatment facilities, appurtenant structures and storage facilities located on the Tonini parcel. As described in Table Q.5-1, the Preferred Project will include an Oxidation Ditch or Biolac® facility that encompasses less area and requires substantially less grading than the facultative ponds proposed under Proposed Project 4. The discharge of stormwater outside of the treatment plant would be conveyed through a drainage channel, into a drainage structure and discharged into the creek through a storm drainage outfall via an energy dissipater. Based on the revisions to the facilities at the treatment plant site, the drainage channel and outfall would result in the project not creating or contributing runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff.

Disposal Sites

Similar to Proposed Project 4, the proposed disposal systems under the Preferred Project include sprayfields at the Tonini parcel and leachfields at the Broderson parcel. Under the Preferred Project, the type of spray was revised to exclude percolation and as a result approximately 73 more acres of

sprayfields are proposed to accommodate the 842 acre-feet of spray at Tonini compared to Proposed Project 4. Based on a review of the increase in sprayfield area and the revision to spray by evapotranspiration the proposed facilities would not exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff. Therefore, similar to Proposed Project 4, less than significant impacts would occur under the Preferred Project.

Combined Project Effects

Similar to Proposed Project 4, the Preferred Project would result in no substantial additional sources of polluted runoff would occur; thereby resulting in a less than significant impact.

Cumulative Impact Analysis

Similar to Proposed Project 4, the Preferred Project would result not contribute to cumulative impacts related to runoff water and drainage systems.

Mitigation Measures

Project-Specific

No mitigation measures are required.

Cumulative

No mitigation measures are required.

Level of Significance After Mitigation

Project-Specific

Less than Significant.

Cumulative

No impact.

Water Quality

Q5.3-E: The proposed projects would not otherwise substantially degrade water quality.

Project Specific Impact Analysis

Collection System

Similar to Proposed Project 4, the collection system under the Preferred Project is a gravity system. As described in Table Q.5-1, the Preferred Project includes additional collection system facilities such as pump stations, standby power stations, and pipelines, as well as modifications to specific locations and size of facilities such as the central pump station, pipelines within streets, and pipelines crossing creeks compared to Proposed Project 4. Potential impacts to water quality caused by construction and operation of the collection system are generally described above under Impact Q5.3-A. Based on a review of the additions and modifications of the collection system facilities, the Preferred Project would not otherwise substantially degrade water quality, similar to Proposed Project 4.

Treatment Plant Site

Similar to Proposed Project 4, the proposed treatment plant facilities under the Preferred Project include treatment facilities, appurtenant structures and storage facilities located on the Tonini parcel. As described in Table Q.5-1, the Preferred Project will include an Oxidation Ditch or Biolac® facility that encompasses less area and requires substantially less grading than the facultative ponds proposed under Proposed Project 4. Potential impacts to water quality caused by construction and operation of the collection system are generally described above under Impact Q5.3-A. Based on the revisions to the proposed facilities at the plant site, including the drainage facility that would convey stormwater around the treatment plant and ultimately into the onsite creek after stormwater passes through an energy dissipater, the Preferred Project would not contribute to a degradation of water quality, similar to Proposed Project 4.

Disposal Sites

Similar to Proposed Project 4, the proposed disposal systems under the Preferred Project include sprayfields at the Tonini parcel and leachfields at the Broderson parcel. Under the Preferred Project, the type of spray was revised to exclude percolation and as a result approximately 73 more acres of sprayfields are necessary to accommodate the 842 acre-feet of spray at Tonini compared to Proposed Project 4. Potential impacts to water quality caused by construction and operation of the disposal sites are generally described above under Impact Q5.3-A. Based on a review of the increase in sprayfield area, the Preferred Project would not substantially degrade water quality similar to Proposed Project 4.

Combined Project Effects

Similar to Proposed Project 4, the Preferred Project would result in the construction and operation of the individual facilities associated with the collection system, treatment plant site, and disposal sites and would not contribute runoff that would substantially degrade surface water quality. Construction and long-term operational activities associated with the Preferred Project facilities could result in a combined effect related to water quality degradation; however, similar to Proposed Project 4 each component of the Preferred Project includes water quality best management practices so that no substantial surface water quality degradation would occur, thereby resulting in a less than significant impact.

Cumulative Impact Analysis

Similar to Proposed Project 4, the Preferred Project would not contribute to cumulative impacts related to water quality.

Mitigation Measures

Project-Specific

No mitigation measures are required.

Cumulative

No mitigation measures are required.

Level of Significance After Mitigation

Project-Specific

Less than Significant.

Cumulative

No impact.

Housing Placement: Flood Hazard Area

Q5.3-F: The proposed projects would not place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map.

Project Specific Impact Analysis

Similar to Proposed Project 4, the collection system under the Preferred Project is a gravity system. As described in Table Q.5-1, the Preferred Project includes additional collection system facilities such as pump stations, standby power stations, and pipelines, as well as modifications to specific locations and size of facilities such as the central pump station, pipelines within streets, and pipelines crossing creeks compared to Proposed Project 4. Based on a review of the additions and modifications of the collection system facilities, the Preferred Project would not involve the development of housing. Therefore, although portions of the project site are located within a 100-year flood hazard zone as mapped on FEMA FIRMs, no housing would be placed within the boundaries of that zone. Therefore, there would be no impact, similar to Proposed Project 4.

Cumulative Impact Analysis

Similar to Proposed Project 4, the Preferred Project does not include the development of housing and would not contribute cumulatively to the placement of housing within 100-year flood hazard areas. Therefore, the Preferred Project would result in no cumulative flood hazard impacts associated with the placement of housing.

Mitigation Measures

Project-Specific

No mitigation measures are required.

Cumulative

No mitigation measures are required.

Level of Significance After Mitigation

Project-Specific

No impact.

Cumulative

No impact.

Structures: Flood Hazard Area

Q5.3-G: The proposed projects would not place within a 100-year flood hazard area structures which would impede or redirect flood flows.

Project Specific Impact Analysis

Collection System

Similar to Proposed Project 4, the collection system under the Preferred Project is a gravity system. As described in Table Q.5-1, the Preferred Project includes additional collection system facilities such as pump stations, standby power stations, and pipelines, as well as modifications to specific locations and size of facilities such as the central pump station, pipelines within streets, and pipelines crossing creeks compared to Proposed Project 4. Based on a review of the additions and modifications of the collection system facilities, the Preferred Project would not impede or redirect flood flows to any significant degree. Therefore, the impact would be less than significant similar to Proposed Project 4.

Treatment Plant Site

Similar to Proposed Project 4, the proposed treatment plant facilities under the Preferred Project include treatment facilities, appurtenant structures and storage facilities located on the Tonini parcel. As described in Table Q.5-1, the Preferred Project will include an Oxidation Ditch or Biolac® facility that encompasses less area and requires substantially less grading than the facultative ponds proposed under Proposed Project 4. The discharge of stormwater outside of the treatment plant would be conveyed through a drainage channel, into a drainage structure and discharged into an onsite Creek through a storm drainage outfall via an energy dissipater. Based on the revisions to the facilities at the treatment plant site, the storm drain outfall would extend into the 100-year flood flow; however, this facility would not substantially impede or redirect flows within the creek. Therefore, the impact would be less than significant similar to Proposed Project 4.

Disposal Sites

Similar to Proposed Project 4, the proposed disposal systems under the Preferred Project include sprayfields at the Tonini parcel and leachfields at the Broderson parcel. Under the Preferred Project, the type of spray was revised to exclude percolation and as a result, approximately 73 more acres of sprayfields are proposed to accommodate the 842 acre-feet of spray at Tonini compared to Proposed Project 4. Based on a review of the increase in sprayfield area and the existing flood hazard areas, the additional pipelines required to serve the additional sprayfield area would not impede a flood area. Therefore, similar to Proposed Project 4, the Preferred Project would result in less than significant impacts to flood hazard areas.

Combined Project Effects

Similar to Proposed Project 4, the combined effect of placing structures within a 100-year flood hazard area under the Preferred Project would be less than significant for the Preferred Project.

Cumulative Impact Analysis

Similar to Proposed Project 4, the Preferred Project would not contribute to cumulative impacts related to placement of structures within a 100-year flood hazard area.

Mitigation Measures

Project-Specific

No mitigation measures are required.

Cumulative

No mitigation measures are required.

Level of Significance After Mitigation

Project-Specific

Less than Significant.

Cumulative

No impact.

Flooding

Q5.3-H:	The proposed projects would not expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam.
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Project Specific Impact Analysis

Collection System

Similar to Proposed Project 4, the collection system under the Preferred Project is a gravity system. As described in Table Q.5-1, the Preferred Project includes additional collection system facilities such as pump stations, standby power stations, and pipelines, as well as modifications to specific locations and size of facilities such as the central pump station, pipelines within streets, and pipelines crossing creeks compared to Proposed Project 4. Based on a review of the additions and modifications of the collection system facilities, the Preferred Project would not expose people or structures to a significant risk of loss, injury, or death involving flooding. Because the proposed pipelines that would cross Los Osos Creek and Warden Creek are proposed to be placed on the bridge compared to burial beneath the creeks, the Preferred Project would result in no impacts to structures related to significant loss, injury or death involving flooding.

Treatment Plant Site

Similar to Proposed Project 4, the proposed treatment plant facilities under the Preferred Project include treatment facilities, appurtenant structures and storage facilities located on the Tonini parcel. As described in Table Q.5-1, the Preferred Project will include an Oxidation Ditch or Biolac® facility that encompasses less area and requires substantially less grading than the facultative ponds proposed under Proposed Project 4. Based on the revisions to the proposed treatment process, the facilities within the site are located more than 100 feet from the upland boundary of the 100-year flood hazard

area, as defined in the FEMA FIRM. There are also no dams within the vicinity of the treatment plant site. Therefore, the placement of the treatment plant under the Preferred Project would not expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam. This finding is the same as the finding for Proposed Project 4.

Disposal Sites

Similar to Proposed Project 4, the proposed disposal systems under the Preferred Project include sprayfields at the Tonini parcel and leachfields at the Broderson parcel. Under the Preferred Project, the type of spray was revised to exclude percolation and as a result approximately 73 more acres of sprayfields are necessary to accommodate the 842 acre-feet of spray at Tonini compared to Proposed Project 4. Based on a review of the increase in sprayfield area the Preferred Project, similar to Proposed Project 4, would not expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam.

Combined Project Effects

Similar to Proposed Project 4, the Preferred Project would not expose people or structures to a significant risk of loss, injury, or death involving flooding. Therefore, the combined effect of placing structures within a 100-year flood hazard area would not expose people or structures to a significant risk of loss, injury, or death involving flooding, including flooding as a result of the failure of a levee or dam.

Cumulative Impact Analysis

Similar to Proposed Project 4, the Preferred Project would not contribute to cumulative impacts related to flooding, as a result of the failure of a levee or dam.

Mitigation Measures

Project-Specific

No mitigation measures are required.

Cumulative

No mitigation measures are required.

Level of Significance After Mitigation

Project-Specific

No impact.

Cumulative

No impact.

Seiche, Tsunami, or Mudflow

Q5.3-I: The proposed projects would be subject to inundation by seiche, tsunami, or mudflow.

Project Specific Impact Analysis

Collection System

Similar to Proposed Project 4, the collection system under the Preferred Project is a gravity system. As described in Table Q.5-1, the Preferred Project includes additional collection system facilities such as pump stations, standby power stations, and pipelines, as well as modifications to specific locations and size of facilities such as the central pump station, pipelines within streets, and pipelines crossing creeks compared to Proposed Project 4. Based on a review of the additions and modifications of the collection system facilities, the Preferred Project would not be subject to inundation by seiche, tsunami or mudflow similar to Proposed Project 4.

Treatment Plant Site

Similar to Proposed Project 4, the proposed treatment plant facilities under the Preferred Project include treatment facilities, appurtenant structures and storage facilities located on the Tonini parcel. As described in Table Q.5-1, the Preferred Project will include an Oxidation Ditch or Biolac® facility that encompasses less area and requires substantially less grading than the facultative ponds proposed under Proposed Project 4. Based on the revisions to the proposed facilities at the treatment plant site, the combination of distance from the ocean, local topography, and elevation of the site would result in the project not being subject to inundation by seiche, tsunami, or mudflow. Therefore, similar to Proposed Project 4, less than significant impacts would occur with the implementation of the Preferred Project.

Disposal Sites

Similar to Proposed Project 4, the proposed disposal systems under the Preferred Project include sprayfields at the Tonini parcel and leachfields at the Broderson parcel. Under the Preferred Project, the type of spray was revised to exclude percolation and as a result approximately 73 more acres of sprayfields are necessary to accommodate the 842 acre-feet of spray at Tonini compared to Proposed Project 4. Based on a review of the increase in sprayfield area as well as the distance of the site from the ocean, local topography, and elevation of the Tonini site, the Preferred Project facilities at the Tonini site would not be subject to inundation by seiche, tsunami, or mudflow.

Combined Project Effects

Similar to Proposed Project 4, the Preferred Project would not be subject to inundation by seiche, tsunami, or mudflow. Therefore, the combined effects of inundation by seiche, tsunami, or mudflow would be less than significant.

Cumulative Impact Analysis

Similar to Proposed Project 4, the Preferred Project would not contribute to cumulative impacts, regarding seiche, tsunami, or mudflow.

Mitigation Measures

Project-Specific

No mitigation measures are required.

Cumulative

No mitigation measures are required.

Level of Significance After Mitigation

Project-Specific

Less than Significant.

Cumulative

No impact.

Wastewater Treatment

Q5.3-J: The proposed projects would not exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board.

Project Specific Impact Analysis

Similar to Proposed Project 4, the collection system under the Preferred Project is a gravity system. As described in Table Q.5-1, the Preferred Project includes additional collection system facilities such as pump stations, standby power stations, and pipelines, as well as modifications to specific locations and size of facilities such as the central pump station, pipelines within streets, and pipelines crossing creeks compared to Proposed Project 4. Based on a review of the additions and modifications of the collection system facilities, the Preferred Project would not exceed wastewater treatment requirements of the Central Coast RWQCB. Thus, the Preferred Project would result in no impact related to the exceedance of wastewater treatment requirements of the Regional Water Quality Control Board, similar to Proposed Project 4.

Cumulative Impact Analysis

Similar to Proposed Project 4, the Preferred Project would result in no impact related to the exceedance of wastewater treatment requirements of the Regional Water Quality Control Board; therefore, the Preferred Project would not contribute to a cumulative impact.

Mitigation Measures

Project-Specific

No mitigation measures are required.

Cumulative

No mitigation measures are required.

Level of Significance After Mitigation

Project-Specific

No impact.

Cumulative

No impact.

Stormwater Drainage Facilities

Q5.3-K: The proposed projects would require or result in the construction of minor new storm water drainage facilities or expansion of existing facilities. The construction of this minor facility would not cause significant environmental effects.

Project Specific Impact Analysis

Collection System

Similar to Proposed Project 4, the collection system under the Preferred Project is a gravity system. As described in Table Q.5-1, the Preferred Project includes additional collection system facilities such as pump stations, standby power stations, and pipelines, as well as modifications to specific locations and size of facilities such as the central pump station, pipelines within streets, and pipelines crossing creeks compared to Proposed Project 4. Based on a review of the additions and modifications of the collection system facilities, the Preferred Project may include slightly greater impervious areas due to the addition of pump stations, standby power stations, and a greater footprint for the Mid-town pump station. However, the relatively small surface areas for these facilities would cause a negligible increase in the volume of localized stormwater runoff that would eventually percolate in the soils. Therefore, similar to Proposed Project 4, the Preferred Project would result in less than significant impacts from the negligible increases in stormwater.

Treatment Plant Site

Similar to Proposed Project 4, the proposed treatment plant facilities under the Preferred Project include treatment facilities, appurtenant structures and storage facilities located on the Tonini parcel. As described in Table Q.5-1, the Preferred Project will include an Oxidation Ditch or Biolac® facility that encompasses less area and requires substantially less grading than the facultative ponds proposed under Proposed Project 4. The discharge of stormwater outside of the treatment plant would be conveyed through a drainage channel, into a drainage structure and discharged into an onsite creek through a storm drainage outfall via an energy dissipater. Based on the revisions to the proposed facilities at the treatment plant site, the Preferred Project would not require alterations to the existing storm drain facilities. Therefore, similar to Proposed Project 4, the Preferred Project would result in a less than significant environmental effect on alterations to existing drainage.

Disposal Sites

Similar to Proposed Project 4, the proposed disposal systems under the Preferred Project include sprayfields at the Tonini parcel and leachfields at the Broderson parcel. Under the Preferred Project, the type of spray was revised to exclude percolation and as a result approximately 73 more acres of

sprayfields are necessary to accommodate the 842 acre-feet of spray at Tonini compared to Proposed Project 4. Based on a review of the increase in sprayfield area, no new drainage facilities are required; therefore, no environmental effects would occur during construction.

Combined Project Effects

Similar to Proposed Project 4, the Preferred Project would result in less than significant impacts; therefore, the combined effects associated with the facilities under the Preferred Project would result in less than significant impacts.

Cumulative Impact Analysis

Similar to Proposed Project 4, the Preferred Project would not contribute to cumulative impacts, related to stormwater drainage facilities.

Mitigation Measures

Project-Specific

No mitigation measures are required.

Cumulative

No mitigation measures are required.

Level of Significance After Mitigation

Project-Specific

Less than Significant.

Cumulative

No impact.

Consistency with Federal Laws and Local Goals and Policies Related to Hydrology and Water Quality

Q5.3-L: The proposed projects would not conflict with federal laws or local goals and policies relating to hydrology and water quality.

Project Specific Impact Analysis

Similar to Proposed Project 4, the Preferred Project includes a collection system, treatment plant facilities, and disposal facilities. Based on a review of the additions and modifications of the proposed facilities, the Preferred Project would not conflict with federal laws or local goals and policies relating to hydrology and water quality; therefore, similar to Proposed Project 4, the Preferred Project would result in no impacts.

Cumulative Impact Analysis

Similar to Proposed Project 4, the Preferred Project would not contribute to cumulative impacts on federal laws and local goals and policies relating to hydrology and water quality.

Mitigation Measures

Project-Specific

No mitigation measures are required.

Cumulative

No mitigation measures are required.

Level of Significance After Mitigation

Project-Specific

No impact.

Cumulative

No impact.

