

Elk Grove Water District Water Shortage Contingency Plan



Adopted: June 2021

[excerpt from Chapter 6 of 2020 Urban Water Management Plan]

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Chapter 6

Water Shortage Contingency Plan

The Elk Grove Water District (EGWD) is committed to meeting the health and safety requirements of a drinking water purveyor at all times. EGWD maintains this Water Shortage Contingency Plan (WSCP) to help meet this goal during water shortages.

This WSCP provides for emergency water supply management related to general supply shortages due to severe droughts, infrastructure failure, catastrophic supply interruption, or any other cause. EGWD coordinates regionally through Regional Water Authority (RWA) and Sacramento County Water Agency (SCWA) with respect to emergency water shortage planning and response.

This WSCP allows for declaration of supply shortages by the Board of Directors (Board). When a shortage is identified, the Board assesses if a particular shortage stage (and corresponding response actions) should be declared. Upon Board declaration of a shortage stage, restrictions, regulations, prohibitions on uses, and enforcement measures are enacted.

6.1 Legal Authorities

The Florin Resources Conservation District, established and governed by Division 9 of the California Public Resources Code (PRC), owns and operates a water utility called the Elk Grove Water District. EGWD's authority includes the "development and distribution of water" (PRC 9151) and is authorized to manage and administer any water conservation or distribution project within or adjacent to EGWD (PRC §9415). Upon approval by the Board of Directors, EGWD is authorized to include plans and specifications that include terms and conditions with respect to conservation of water (PRC §9816).

The aforementioned powers derived from EGWD's organizing statutes are in addition to general powers granted to water distributors in CWC §§350-359. CWC §350 authorizes the governing body of a distributor of a public water supply to declare a water shortage emergency whenever it finds and determines that the ordinary demands and requirements of water consumers cannot be satisfied without depleting the water supply of the distributor to the extent there would be insufficient water for human consumption, sanitation, and fire protection. Upon a finding of such an emergency condition, the distributor can adopt such regulations and restrictions on the delivery and consumption of water as will conserve the water supply for the greatest public benefit, with particular regard to domestic use, sanitation, and fire protection (CWC §353). The regulations and restrictions remain in force and effect until the supply of water available for distribution within such area has been replenished or augmented, and restrictions may include the right to deny new service connections and discontinue service for willful violations (CWC §355 and §356).

EGWD also coordinates with any city or county within which it provides water supply services for the possible proclamation of a "local emergency" under California Government Code, California Emergency Services Act (Article 2, Section 8558).

6.2 Water Supply Reliability Analysis

EGWD supply consists of both self-supplied groundwater as well as purchased supplies from Sacramento County Water Agency (SCWA). EGWD's Service Area 1 relies on production of groundwater, whereas Service Area 2 relies on purchased supplies from SCWA. Both supply sources can be impacted by climate factors, catastrophic events, and regulatory measures. EGWD evaluates its overall water supply reliability through its Urban Water Management Plan, as well as through other regional and SCWA planning efforts.

EGWD's groundwater supplies are projected to be available for pumping during drought periods. The groundwater supply is the Sacramento Valley South American Groundwater Basin, referred to as the Central Basin Area of the Sacramento County Groundwater Basin, as identified in the Central Sacramento County Groundwater Management Plan. The Central Basin is sustainably managed by all the region's pumpers in coordination with the region's groundwater sustainability agencies. EGWD does not currently project any groundwater shortages during a drought lasting up to five years. However, the ability to pump the groundwater may be limited by regulatory or legal requirements put in place during a drought. EGWD will address these restrictions as they materialize and modify its water shortage supply strategy, as necessary.

EGWD also receives supply from the Sacramento County Water Agency. Although SCWA maintains surface water and groundwater supply for its entire service area, the supply from SCWA is almost entirely from SCWA production wells located within EGWD's service area. SCWA's recent planning efforts indicate no expected limitations in its ability to access the groundwater resources used to serve EGWD's Service Area 2, including during drought conditions. As the case with EGWD's own groundwater production constraints, this supply may be impacted by regulatory or legal requirements imposed during a drought. EGWD will work with SCWA to address these restrictions and develop the appropriate response strategy, as necessary.

6.3 Annual Water Supply and Demand Assessment Procedures

EGWD conducts an annual analysis of supply and demand projections to help inform water resources management decisions for the coming year. The analysis incorporates numerous data sources used as evaluation criteria to project probable demands and supply availability for the coming year. Sources to consider include:

- Projected weather conditions
 - Precipitation versus historical on monthly basis
- Projected Unconstrained Demand
 - Production versus historic on monthly basis
 - New customer growth
 - Identify artificially supplied water features separate from swimming pools and parks
 - GPCD tracking
- Projected Supply Availability
 - SCWA projected supply
 - Groundwater production capacity
- Regulatory Conditions
 - State mandated conservation orders
 - Groundwater Sustainability Agency (GSA) information

The general procedure is listed below. EGWD may modify this process based on available data, significant events, process restrictions, or other external factors that may impact the process.

1. Compile existing weather data to characterize past 12 months conditions. During the dry year scenario, the EGWD anticipates no impact in the ability to produce groundwater supplies, including supplies from SCWA.
2. Estimate unconstrained EGWD demands based on recent and representative customer use data. Development of unconstrained demand will incorporate recent use patterns (unit factors for each customer type) and anticipated customer growth.
3. Assess the wholesaler supply based on wholesaler projections for current year and dry year scenarios.
4. Assess available capacity of groundwater production facilities.
5. Identify and incorporate any applicable constraints (infrastructure, regulatory, etc.) regarding receiving wholesaler supply or groundwater production.
6. Compare projected wholesaler supplies and available groundwater production facilities with anticipated EGWD demands.
7. Develop, analyze, and propose water resource management strategies to address the projected demand to supply comparison, including reference to the water shortage stages identified in this WSCP.
8. Present Annual Water Supply and Demand Assessment (and resulting conservation stage declaration, if applicable) to Board.

The general proposed timeline is as follows:

- ◆ Begin assessment by District staff – March/April
- ◆ Present assessment to Board of Directors – May
- ◆ Submit to State per CWC §10632.1 – No later than July 1

6.4 Water Shortage Stages

The following subsections and tables present information on EGWD's supply scenarios, including Normal Water Supply and the six water shortage stages. Results from the annual Water Supply and Demand Assessment are used to declare a respective shortage stage.

6.4.1 Normal Water Supply

EGWD's water supply and distribution system is able to meet all the water demands of its customers in the immediate future. Regulations for Normal Water Supply are applicable to all stages and include the following:

- ◆ Runoff – Irrigation shall not be allowed to run off to adjoining properties or to the roadside ditch or gutter.
- ◆ Watering after a Rainfall Event – No irrigation shall be allowed for 48 hours after a measurable rainfall event. A measurable rainfall event shall be defined as an event having 0.10 inches of rain in one day.
- ◆ Hoses – Open hoses are not permitted. Automatic shutoff nozzles are required.
- ◆ Washing driveways and other paved areas – Use of water to clean sidewalks, driveways, patios, or other hardscapes is not permitted. Washing of streets and commercial parking lots with a hose is not permitted, except to alleviate immediate fire or sanitation hazards.
- ◆ Pools, ponds, and fountains – All swimming pools, ponds, fountains, or other decorative water feature shall use recirculated water.

The penalties for water waste during this stage (Normal Water Supply) are as follows:

- ◆ First and Second Violation – Customer is notified of a violation.
- ◆ Third Violation – Written warning sent to customer.

The following practices are encouraged by EGWD:

- ◆ Irrigation – Limit landscape irrigation to not more than 3 days per week.
- ◆ Irrigation hours – Landscaping irrigation is discouraged between the hours of 12:00 p.m. and 6:00 p.m. during the summer months (May – October).
- ◆ Serving of Water – Restaurants shall serve water to customers only upon request.
- ◆ Water Leaks – Leaking pipes, fixtures or sprinklers shall be repaired promptly.

Stage 1 – 10% Supply Shortage

Actions include regulations from Normal stage plus those listed below. When implemented as a whole program, these actions together are expected to eliminate up to a 10 percent gap between supplies and demands.

Customers Actions to Reduce Demand up to 10 Percent

- Reduce total water use by 10%. Contact EGWD or visit egwd.org for tips and techniques to reduce indoor and outdoor water use.
- Pool draining and refilling shall be allowed only for health, maintenance, or structural considerations.
- Users of construction water meters will be monitored for efficient water use.
- Restaurants shall serve water only upon request.
- Pipeline flushing is prohibited except in the case of an emergency, public health and for essential operations or unless specifically authorized by the District.
- Addresses ending in an odd number irrigate on Tuesday, Friday, and Sunday. Customers are encouraged to **voluntarily** reduce irrigation to Tuesday and Friday.
- Addresses ending in an even number irrigate on Monday, Thursday, and Saturday. Customers are encouraged to **voluntarily** reduce irrigation to Monday and Thursday.

District Actions

- Communicate mandatory reduction targets to customers.
- Leak repair receives higher priority.
- Increase drought awareness through additional public outreach measures that notify public and customers for declared stage, requirements, and available conservation program support.
- Decrease system flushing frequency.
- Increased monitoring of customer use.
- Accelerate infrastructure repairs and improvements.
- Water Shortage enforcement measures, including fines and charges, for non-compliance with this WSCP’s requirements will be implemented in accordance with established District Policies and Procedures



Stage 2 – 20% Supply Shortage

Actions include regulations from Stage 1 plus those listed below. When implemented as a whole program, these actions together are expected to eliminate up to a 20 percent gap between supplies and demands.

Treated Water and Municipal Water Customers - Actions to Reduce Demand up to 20 Percent

- Reduce total water use by 20%. Contact EGWD or visit egwd.org for tips and techniques to reduce indoor and outdoor water use.
- Leaking customer pipes or faulty sprinklers shall be repaired within two working days or less if warranted by the severity of the problem.
- Water for flow testing and construction purposes from water agency fire hydrants and blow-offs is prohibited. Use of reclaimed water for construction purposes is encouraged. Reclaimed water is not currently available within EGWD’s service area and would have to be obtained elsewhere.
- Addresses ending in an odd number irrigate on Tuesday, Friday from 8pm-8am.
- Addresses ending in an even number irrigate on Monday, Thursday from 8pm-8am.
- Pools, ponds, and fountains – Water use for ornamental ponds and fountains is prohibited. No potable water from EGWD’s system shall be used to fill or refill new swimming pools, artificial lakes, ponds, or streams until the Stage 2 – Water Warning has been declared over.

District Actions

- Communicate mandatory reduction targets to customers.
- Implement water conservation patrols.
- Reach out to top consumers about conservation measures.

Stage 3 – 30% Supply Shortage

Actions include regulations from preceding stages plus those listed below. When implemented as a whole program, these actions together are expected to eliminate up to a 30 percent gap between supplies and demands.

Treated Water and Municipal Water Customers - Actions to Reduce Demand up to 30 Percent

- Reduce total water use by 30%. Contact EGWD or visit egwd.org for tips and techniques to reduce indoor and outdoor water use.
- Leaking customer pipes or faulty sprinklers shall be repaired within 24 hours or less if warranted by the severity of the problem.
- Use of reclaimed water for construction purposes is encouraged. Reclaimed water is not currently available within EGWD’s service area and would have to be obtained elsewhere.
- Installation of new turf lawn and/or landscaping is prohibited.
- Automobiles or equipment shall be washed only at commercial establishments that use recycled or reclaimed water.
- Addresses ending in an odd number irrigate on Tuesday, Friday from 10pm-4am.
- Addresses ending in an even number irrigate on Monday, Thursday from 10pm-4am.

District Actions

- Communicate mandatory reduction targets to customers.
- No commitments will be made to provide service for new water service connections unless the Department of Water Resources Model Water Efficient Landscape Ordinance, found at: <http://www.water.ca.gov/wateruseefficiency/docs/MWEL09-10-09.pdf>, is followed and the plans have been approved by the county or city building department which has jurisdiction over the property location. Any authorized landscape for new connections is subject to all restrictions set forth in Stage 3.

Stage 4 – 40% Supply Shortage

Actions include regulations from preceding stages plus those listed below. When implemented as a whole program, these actions together are expected to eliminate up to a 40 percent gap between supplies and demands.

Treated Water and Municipal Water Customers - Actions to Reduce Demand up to 40 Percent

- Reduce total water use by 40%. Contact EGWD or visit egwd.org for tips and techniques to reduce indoor and outdoor water use.
- No potable water from the District’s system shall be used for construction purposes including but not limited to dust control, compaction, or trench jetting.
- Addresses ending in an odd number irrigate on Tuesday from 10pm-4am.
- Addresses ending in an even number irrigate on Thursday from 10pm-4am.

District Actions

- Communicate mandatory reduction targets to customers.
- System Pressure – Maximum psi at wells and treatment plants will be reduced to 55.

Stage 5 – 50% Supply Shortage

Actions include regulations from preceding stages plus those listed below. When implemented as a whole program, these actions together are expected to eliminate up to a 50 percent gap between supplies and demands.

Customers - Actions to Reduce Demand up to 50 Percent

- Reduce total water use by more than 50%. Contact EGWD for tips and techniques to reduce indoor and outdoor water use.
- Leaking customer pipes or faulty sprinklers shall be repaired immediately. Water service will be suspended until repairs are made.
- Turf irrigation is prohibited.

District Actions

- Communicate mandatory reduction targets to customers.
- New connections - No new connections will be added to the system until the Stage 5 has been declared over.
- System Pressure – Maximum system operating pressure will be reduced to 50 psi.

Stage 6 – Over 50% Supply Shortage
Actions include regulations from preceding stages plus those listed below. Actions will be identified to address each specific shortage situation to eliminate the gap between supplies and demands.
Customers - Actions to Reduce Demand greater than 50 Percent <ul style="list-style-type: none"> • Health and safety use of water only. • Landscape irrigation is prohibited.
District Actions <ul style="list-style-type: none"> • Communicate mandatory reduction targets to customers. • Other actions as identified specific to the shortage condition. • Declare Water Shortage Emergency in accordance with Section 350 of Division 1, Chapter 3 Water Shortage Emergencies of the California Water Code.

6.5 Enforcement and Variances

EGWD provides the stages of penalties for violators of the water waste regulation. The penalties are enforced through the application of FRCD Ordinance No. 06.15.21.02. For each violation within a 12-month period under normal water supply conditions, violations are as follows:

- First and Second Violation – Customer is notified of a violation.
- Third Violation – Written warning sent to customer.

When a conservation stage 1-3 is declared, fines for each violation within a 12-month period are as follows:

- First Violation – Customer is notified of a violation.
- Second Violation – Written warning sent to customer.
- Third Violation – \$200 fine and customer is scheduled for mandatory water audit.
- Fourth Violation – \$500 fine.
- Fifth Violation – \$500 fine and water service is shut off. A Connection fee is assessed to reactivate water service.
- Similar fines and charges may be implemented by EGWD as needed to enforce restriction on specific prohibitions on water uses.

When conservation stage 4 - 6 is declared, fines for each violation within a 12-month period are as follows:

- First Violation – Customer is notified of a violation with a written warning.
- Second Violation – \$500 fine and customer is scheduled for mandatory water audit.
- Third Violation – \$500 fine and water service is shut off. A Connection fee is assessed to reactivate water service.
- Similar fines and charges may be implemented by the District as needed to enforce restriction on specific prohibitions on water uses.

Once a water shortage stage has been declared, EGWD will enforce compliance through a multitude of measures commensurate with each reduction goal. EGWD will either implement measures per this Water Shortage Contingency Plan or will provide further discrete requirements through approval of ordinances.

The appeal process regarding this WSCP is found in Section 5 of Ordinance 06.15.21.02.

6.6 Communication Protocols

EGWD maintains an established and effective communications program to inform its customers, neighbors, and other stakeholders of issues, updates, and policies. Implementation of the WSCP will utilize the existing communication program structure to inform customers and others of the declared shortage stage and respective actions and restrictions in place.

The Board meetings addressing the Annual Water Supply and Demand Assessment and/or a potential water shortage declaration will be noticed per normal Board meeting public notification procedures. The meeting will also be announced through regular press release protocols.

Once a shortage stage has been declared by the Board of Directors, EGWD will notify its customers and others through a range of efforts. The stage and restrictions will be identified in a press release, as well as customer billing statements. EGWD's website will be updated to feature the shortage declaration, restrictions, and resources available to customers from EGWD and other entities to help meet the restrictions. Subsequent Board of Directors meetings will include a review of the shortage condition, customer response results, and discussion and recommendations for potential modifications.

EGWD will also coordinate with the City of Elk Grove, Sacramento County, Sacramento County Water Agency, and Regional Water Authority, to declare a local emergency with respect to anticipated water supplies and demands in the event conditions necessitate.

6.7 Financial Consequences of WSCP

EGWD understands the potential for decreased revenues and increased costs during prolonged water shortage conditions and enforcement of excessive residential water use during a drought (compliance with Chapter 3.3, Division 1 of the CWC). The decreased revenues can be expected due to a reduction in water sales. Volumetric revenue is approximately 38 percent of total revenue¹. Assuming a reduction in sales commensurate with the particular WSCP stage declaration, a decrease in total revenues in the range of 2-4 percent per stage may be expected.

Additional monitoring, public outreach, and enforcement is expected to increase total costs to EGWD in declaring a water shortage. These additional efforts are prioritized for current staff, and other normal work efforts and projects are delayed or reassigned. If conditions warrant, EGWD will seek the assistance through additional staffing from third-party service providers. These costs depend on the level of support and will be evaluated on a case-by-case basis.

EGWD maintains a strong financial management position. However, it is reasonable to expect financial impacts or changes in cash flow during a prolonged water shortage condition. EGWD will enact a range of management and financial resources depending on the specific situation that include:

- ◆ Capital project deferment
- ◆ Operational and maintenance expense deferment
- ◆ Increased revenues from fines and penalties
- ◆ And others as identified

¹EGWD's 2018 Water Rate Study

6.8 Monitoring and Reporting

The WSCP aims to ensure demands are reduced and/or supply is augmented to balance supply and demand. EGWD will enact various actions commiserate with each respective stage. EGWD will then monitor results to maintain the supply/demand balance. Similar to the supply and demand projections used to establish a shortage condition, EGWD will monitor the same data to determine effectiveness and efficacy. District staff will report to the Board of Directors at least quarterly on status and results. Data reporting will include:

- ◆ Actual demands to projected demands per customer class and on total.
- ◆ Actual supply availability and utilized to projected availability per each supply source.
- ◆ Projected supply availability for next 12 months per supply source.
- ◆ Any specific requirements identified by the State in the future.
- ◆ Data will also be submitted to the State per any future reporting requirements.

Progress and efficacy will be summarized from the results data. EGWD will evaluate the need for any changes or modifications to the declared water shortage stage or actions based on the results. EGWD may determine to enact additional measures, develop ordinances, or update the WSCP as a whole. Any WSCP update or modification will be conducted through the Board of Directors meeting process, unless specific conditions require otherwise.

6.9 Response Action Estimates

The following table presents the individual estimated demand savings of each response action. Actual savings will likely vary greatly based on external influences, shortage stage level, and general customer understanding of drought severity. It is assumed the savings estimates are not additive, but when implemented together as a program with all the actions in each respective stage, they will eliminate the supply to demand shortage gap.

Table 6-1: Shortage Response Action Measures Estimates

Stage	Shortage Response Action	Potential Shortage Gap Reduction
1	Customer – Asked to reduce total water use by 10%.	up to 10%
1+	Customer – Pool draining and refilling shall be allowed only for health, maintenance, or structural considerations.	0-1%
1+	Customer – Users of construction meters will be monitored for efficient water use.	0-2%
1	Customer – Limit irrigation to three days per week. Asked to voluntarily reduce to two days a week.	3-8%
1+	District – Leak repairs receives higher priority.	0-3%
1+	District – Increase drought awareness through additional public outreach measures that notify public and customers for declared stage, requirements, and available conservation program support.	3-5%
1+	District – Increased monitoring of customer use.	0-1%
1+	District –Accelerate infrastructure repairs and improvements.	0-3%
1+	District – Increased enforcement measures, including fines and charges, for non-compliance with WSCP.	0-4%

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Stage	Shortage Response Action	Potential Shortage Gap Reduction
1	District - Flushing is prohibited except in the case of an emergency, public health and for essential operations or unless specifically authorized by the District.	0-2%
2	Customer –Reduce total water use by 20%.	up to 20%
2	Customer – Leaking pipes or faulty sprinklers shall be repaired within two working days or less if warranted by the severity of the problem.	0-1%
2	Customer – Irrigation shall be limited to two days per week.	5-15%
2+	Customer – Water use for ornamental ponds and fountains is prohibited. No potable water from EGWD’s system shall be used to fill or refill new swimming pools, artificial lakes, ponds, or streams.	0-1%
2+	Customer – Water for flow testing and construction purposes from fire hydrants and blow-offs is prohibited.	0-1%
2+	District – Implement water conservation patrols.	3-5%
3	Customer – Reduce total water use by 30%.	up to 30%
3+	Customer – Leaking pipes or faulty sprinklers shall be repaired within 24 hours or less if warranted by the severity of the problem.	0-1%
3+	Customer – Use of reclaimed water for construction purposes is encouraged. Reclaimed water is not currently available within EGWD’s service area and would have to be obtained elsewhere.	0-1%
3+	Customer – Flushing of sewers and fire hydrants is prohibited except in the case of emergency and for essential operations or unless specifically authorized by EGWD.	0-2%
3+	Customer – Automobiles or equipment shall be washed only at commercial establishments that use recycled or reclaimed water.	0-1%
3	Customer – Irrigation shall be limited to two days per week (within six-hour block).	15-20%
3+	Customer – Installation of new turf lawn and/or landscape is prohibited.	0-3%
3+	District – No commitments will be made to provide service for new water service connections unless the DWR MWEL0 is followed, and the plans have been approved by the appropriate building department(s).	1-5%
4	Customer – Reduce total water use by 40%	Up to 40%
4	Customer – Irrigation is allowed only once per week (within six-hour block).	20-30%
4	Customer – No potable water from EGWD’s system shall be used for construction purposes including but not limited to dust control, compaction or trench jetting.	0-2%
4	District – Maximum psi at wells and treatment plans will be reduced to 55.	1-4%
5	Customer – Reduce total water use more than by 50%.	Up to 50%
5+	Customer – Leaking customer pipes or faulty sprinklers shall be repaired immediately. Water service will be suspended until repairs are made.	0-1%
5	Customer – Turf irrigation is prohibited.	25-40%
5	District – No new connection will be added to the system.	2-4%
5	District – Maximum system operating pressure will be reduced to 50 psi.	1-4%
6	Customer – Health and safety use of water only.	up to 50%
6	Customer – Landscape irrigation is prohibited.	25-40%
6	District – Other actions as identified specific to the shortage condition.	varies
6	District – Declare Water Shortage Emergency in accordance with Section 350 of Division 1, Chapter 3 Water Shortage Emergencies of the California Water Code.	varies

6.10 WSCP Refinement Procedures

EGWD's WSCP is an adaptive plan that allows for active refinement to particular shortage conditions. The general procedures for refinement are presented below.

1. For each shortage response action, compare expected results with actual shortage response and identify any shortfall or over achievement.
2. Revise expected reduction for a specific shortage response action based on updated information.
3. Assess the aggregate expected reductions (from revised shortage response actions) for each shortage stage.
4. Revise stage declaration or modify stage shortage response actions to balance demands with supplies.

The procedures presented above will be relied upon during all shortage stage declarations, ensuring an adaptive WSCP, capable of being relied upon under various circumstances, is produced.

6.11 Plan Adoption, Submittal, and Availability

The WSCP (including subsequent updates) shall be adopted in accordance with standard EGWD procedures, including requirements for public participation (public hearing), and approval by the Board. Upon adoption, the WSCP will be submitted to DWR no later than 30 days after and made available for inspection at EGWD office and website.

6.12 Seismic Risk Assessment and Mitigation Plan (Catastrophic interruption in supplies)

Sacramento County has completed a Local Hazard Mitigation Plan (LHMP) under the federal Disaster Mitigation Act of 2000 (Public Law 106-390). Per DWR requirements, a copy of the most recent adopted LHMP by each entity is included in EGWD's UWMP (Appendix D).

Sacramento County is currently in the process of updating the LHMP 2016. The update includes participation with other entities, including Cities of Sacramento, Citrus Heights, Elk Grove, Folsom, Galt, Isleton, Rancho Cordova, and other special districts. The update is anticipated to be completed and finalized during 2021. Upon adoption of the LHMP update, EGWD will submit to DWR.

The LHMP 2016 Hazard Identification Assessment for the City of Elk Grove characterizes the earthquake and liquefaction probability as "occasional" (between 1 and 10 % chance of occurrence in the next year or has a recurrence interval of 11 to 100 years) and "unlikely" (less than 1 percent chance of occurrence in the next year, or has a recurrence interval of greater than 100 years), respectively. Earthquake and liquefaction significance is listed to be "medium" (moderate potential impact) and "low" (minimal potential impact), respectively.