



City of Kenmore
City Council Special Meeting
Agenda
Monday, May 11, 2026
7:30 PM

ZOOM - LINK: <https://kenmorewa-gov.zoom.us/j/86256369903>

Password: 051126

Telephone: Dial US: +1 253 215 8782

Webinar ID: 862 5636 9903

SIGN UP FOR VIRTUAL PUBLIC COMMENT HERE: kenmorewa.gov/virtualpubliccomment

REQUEST AN ACCOMMODATION HERE: kenmorewa.gov/accommodation

If you have technical difficulties accessing the meeting virtually, please contact clerks@kenmorewa.gov.

Technical Difficulties – If the virtual component of the meeting disconnects, and we cannot resolve technical difficulties to reconnect the virtual component, the in-person meeting will continue at City Hall if there is a quorum of the body to conduct business.

1. JOINT SPECIAL MEETING AT SHORELINE CITY HALL - 5:30 PM

A) Information about the Joint Special Meeting will be available on the [Shoreline City Council website](https://www.shorelinecitycouncil.org/).

- Meeting 5:30 - 7:00
- Location: Shoreline City Hall - 17500 Midvale Avenue N, Shoreline, Washington, 98133

2. CALL SPECIAL MEETING TO ORDER - 7:30 PM (KENMORE CITY HALL)

3. ROLL CALL

4. LAND ACKNOWLEDGEMENT

We acknowledge that the City of Kenmore is situated upon the ancestral lands of the Snohomish, Snoqualmie, Sauk-Suiattle, Duwamish, Stillaguamish, Tulalip, Suquamish, Muckleshoot, and other tribes who are part of the Coast Salish Peoples. We recognize and express our deepest respect for their enduring stewardship and profound relationship with this land, which they have cherished and protected since time immemorial. We honor the First Peoples, acknowledge their vibrant cultures, and commit ourselves to learning from their wisdom in our journey to promote justice, equity, and mutual understanding. We pledge to stand alongside these communities in acknowledging past injustices and working towards a

future that respects and celebrates the diverse heritage of this land.

5. FLAG SALUTE

6. PROCLAMATIONS

- A) Safe Boating and Paddling Week, - May 16-22, 2026, to be received by Dale Vodicka on behalf of US Coast Guard Auxiliary Flotilla 22
 - 1. Proclamation Safe Boating and Paddling Week
- B) Peace Officers Memorial Day - May 15, 2026, to be received by Kenmore Police Chief Brandon Moen
 - 1. Proclamation Peace Officers Memorial Day
- C) Kids to Parks Day - May 16, 2026
 - 1. Proclamation Kids to Parks Day

7. WHERE'S THE FUN?

8. PUBLIC COMMENTS

Welcome to the Council's meeting. Please address your comments to the Mayor and Council. You'll have three minutes to speak. If there are more than 20 speakers, time will be reduced to two minutes per speaker. The Clerk will call your name when it's your turn. The Presiding Officer may choose to alternate between in-person and online comments. Please state your name and city of residence and keep within the allotted time. To make every person feel welcome and safe here, please refrain from booing, clapping, heckling, yelling, or other interruptions. Please note: Under Washington State law (RCW 42.17A.555), public comment time may not be used to support or oppose candidates or ballot measures. Thank you for keeping remarks focused on City business. The meeting is recorded for transparency. Thank you for being here, and for sharing your input respectfully.

- A) **VIRTUAL PUBLIC COMMENT PRE-REGISTRATION:** To provide public comments virtually, please fill out the [Virtual Public Comment Request Form](#) in advance of the meeting. The form opens Tuesdays at 12:00 Noon and closes Mondays at 12:00 Noon. You will be confirmed by the City Clerk's Office. If you are having difficulty, please reach out to the City Clerk's Office at clerks@kenmorewa.gov.

9. CONSENT AGENDA

- A) Cancel the City Council Regular Meeting of Tuesday, May 26, 2026.
- B) Approve City Council Special Meeting Minutes of Monday, April 20, 2026.
 - 1. City Council Special Meeting Minutes of Monday, April 20, 2026
- C) Approve the following Voucher Certification and Approval:
 - Total Check #s 58131 through 58234 totaling \$902,638.31
 - Total Payroll/Taxes/Flexible Spending/Retirement & Health Savings Account Electronic Deposits Dated 04/17/2026 in the amount totaling \$309,979.08
 - Total EFT Payment #1973 total \$2,500.00

- Total Wire Transfers totaling \$1,300,000.00

1. Voucher Certification & Approval 04/11/2026-04/24/2026

D) Approve the following King County Grant Agreements:

1. Agreement for Award of Local Hazardous Waste Management Grant Funds for 2026-2027 Between King County and the City of Kenmore (Agreement No. 262714)
2. Interagency Agreement for the 2026- 2027 Waste Reduction & Recycling Grant Program Between King County and the City of Kenmore (CPA # 6611134)

And authorize the City Manager to sign the Agreements.

1. Agenda Bill - Recycle Grant Program Funds Acceptance
 2. Attachment 1 - Contract no. 26-C3236 King County Waste, Reduction & Recycling Grant Program Agreement for 2026- 2027
 3. Attachment 2 - Contract no. 26-C3237 King County Local Hazardous Waste Management Grant Program Agreement for 2026-2027
- E) Approve the following King County Agreement: 1) King County Get Active and Stay Active Grant Agreement #6498958/Kenmore Contract No. 26-C3254 and authorize the City Manager to sign the Agreement.
1. Agenda Bill - King County Get Active Stay Active Kenmore Quad
 2. Attachment 1 - Contract no. - 26-C3254 Youth and Amateur Sports Grant Agreement
 3. Attachment 2 - Log Boom Park Memo
 4. Attachment 3 - Sampling & Analysis Memo
 5. Attachment 4 - Health Consultation Report
- F) Ratify the King County Movie Night Sponsorship Agreement and authorize the City Manager to sign the Agreement.
1. Agenda Bill - King County Movie Night Sponsorship
 2. Attachment 1 - Kenmore Town Center Sponsorship Agreement
- G) Authorize the City Manager to execute Interlocal Agreement No. 24-C3009 Amendment No. 2 with King County to accept FY 2026 Conservation Futures Levy Fund allocation of \$6,622,500 to acquire six properties. *(added 5/4)*
1. Agenda Bill - Contract No. 24-C3009 Amendment No. 2 (added 5/4)
 2. Attachment 1 - Contract No. 24-C3009 Amendment No. 2 (added 5/4)

10. PRESENTATION

- A) Kenmore Community Rowing Club (KCRC) Annual Report, *presented by Public Works Operations Director Jennifer Gordon and KCRC Chair Casey Burt*
1. Attachment 1 - Presentation

11. BUSINESS AGENDA

- A) Draft STEP (Emergency Shelters, Transitional Housing, Emergency Housing, and Permanent Supporting Housing) Housing Regulations, presented by Assistant City Manager/Community Development Director Debbie Bent, *for continued discussion*
 - 1. Agenda Bill - Draft STEP Regulations
 - 2. Attachment 1 - Revised Draft STEP Regulations

12. STAFF REPORTS

- A) Other - City Manager Teri Killgore

13. COUNCILMEMBER REPORTS & COMMENTS

14. EXECUTIVE SESSION

- A) Confidential Session of the Council - Pursuant to RCW 42.30.110(1)(b), the City Council will enter an executive session to consider the acquisition of real estate. This executive session is slated to last approximately 15 minutes. No final action is expected.

15. ADJOURNMENT

UPCOMING MEETING SCHEDULE:

- A) Monday, May 18, 2026 7:00 PM – City Council Regular Meeting
- Monday, May 25, 2026 — **HOLIDAY**
- Tuesday, May 26, 2026 — **Potentially Canceled**
- Monday, June 8, 2026 7:00 PM – City Council Regular Meeting

NOTICE OF POTENTIAL QUORUMS

- A) [Click here for information about Potential Quorums of the City Council](#). Now found on the City website under City Council Meetings.

City of Kenmore, Washington Proclamation

WHEREAS, the City of Kenmore is adjacent to Lake Washington and Sammamish River, and is close to other navigable waterways; and

WHEREAS, many Kenmore residents of all ages engage in recreational boating and paddling; and

WHEREAS, the City of Kenmore has demonstrated a commitment to boating and paddling safety by providing residents with information and educational programming in these areas in collaboration with the U.S. Coast Guard Auxiliary; and

WHEREAS, with the surge of Americans engaging in paddling activities since 2020, many without any training, paddling fatalities now constitute more than 25% of all boating fatalities nation-wide; and

WHEREAS, with the surge of people engaging in paddling activities since 2020, many without training, paddling fatalities now constitute more than 25% of all boating fatalities nationwide; and

WHEREAS, the vast majority of serious boating and paddling accidents are caused by lack of training, human error or poor judgment; and

WHEREAS, a significant number of boaters who lose their lives by drowning each year would be alive today had they worn their life jackets.

NOW THEREFORE, I, Nigel Herbig, Mayor of the City of Kenmore, on behalf of the City Council, do hereby proclaim **May 16-22, 2026** to be **Safe Boating and Paddling Week** throughout the City of Kenmore. We encourage all of Kenmore's residents to dedicate themselves to learning about and practicing safe boating, including wearing life jackets.

IN WITNESS WHEREOF, signed this 11th day of May 2026.

Signed: _____ Attested: _____
Nigel Herbig, Mayor Scott Passey, City Clerk

City of Kenmore, Washington Proclamation

WHEREAS, the safety and security of our communities are of paramount importance, and we owe a debt of gratitude to those who dedicate their lives to protecting the public; and

WHEREAS, peace officers play a vital role in maintaining peace, order, and justice in our society, often risking their own lives to safeguard the lives of others; and

WHEREAS, Peace Officers Memorial Day is a day to honor and remember brave individuals who have made the ultimate sacrifice in the line of duty, paying tribute to their courage, dedication, and selflessness; and

WHEREAS, for officers who have been injured or have fallen in the line of duty, their families and their legacies are forever changed by the loss; and

WHEREAS, it is essential to recognize the sacrifices of peace officers and their families, and to express our profound appreciation of their service and sacrifice; and

WHEREAS, the City of Kenmore is proud of the exceptional presence, service, and contributions of the Kenmore police officers service their residents.

NOW THEREFORE, I, Nigel Herbig, Mayor of the City of Kenmore, on behalf of the City Council, do hereby proclaim **May 15, 2026** to be **Peace Officers Memorial Day** throughout the City of Kenmore. We urge all residents to join with the City Council in this observance where we commemorate law enforcement, past and present, who by their faithful and loyal devotion to their duties and responsibilities, have rendered a dedicated service to our beautiful and safe Kenmore.

IN WITNESS WHEREOF, signed this 11th day of May 2026.

Signed: _____ Attested: _____
Nigel Herbig, Mayor Scott Passey, City Clerk

City of Kenmore, Washington Proclamation

WHEREAS, Kids to Parks Day is a national day of outdoor play celebrated annually on the third Saturday of May to empower kids and encourage families to get outdoors and visit local parks, public lands, and waters; and

WHEREAS, Kids to Parks Day is intended to foster future outdoor enthusiasts and help develop the next generation of park stewards by engaging kids in memorable outdoor experiences; and

WHEREAS, Kids to Parks Day will broaden children's appreciation for nature and the outdoors; and

WHEREAS, kids need outdoor experiences to promote their physical health, mental well-being, creativity, and connection to the natural world; and

WHEREAS, the City of Kenmore features spectacular local and state parks for families to enjoy, including Rhododendron Park, Log Boom Park, and ƛ'axʷadis (Tl' awh-ah-dees) Park; and

WHEREAS, Kids to Parks Day will recognize the importance of recreating responsibly while enjoying the benefits of the outdoors.

NOW THEREFORE, I, Nigel Herbig, Mayor of the City of Kenmore, on behalf of the City Council, do hereby proclaim **Saturday, May 16, 2026** to be **Kids to Parks Day** throughout the City of Kenmore. We encourage all Kenmore residents, especially kids, to stay connected with the great outdoors.

IN WITNESS WHEREOF, signed this 11th day of May 2026.

Signed: _____ Attested: _____
Nigel Herbig, Mayor Scott Passey, City Clerk

**City of Kenmore
City Council Meeting
Special Meeting Minutes
Monday, April 20, 2026**

These minutes are created to capture Council action. This is not a verbatim transcript. Meeting video is available on the [City YouTube channel](#). Attachments are available on the [CivicClerk Agenda Management Portal](#).

PRESENT:

Councilmembers: Mayor Nigel Herbig
Deputy Mayor Valerie Sasson
Councilmember Melanie O’Cain
Councilmember Joe Marshall
Councilmember Jon Culver
Councilmember Nathan Loutsis
Councilmember Eric Adman (excused)

Staff: City Manager Teri Killgore
Deputy City Manager Stephanie Lucash
City Clerk Scott Passey
Co-Clerk Shannon Tipple-Leen
Assistant to the City Manager Michelle Kang
Community & Business Engagement Coordinator Nicole Suarez
Finance & Administration Director Melinda Merrell
Public Works Operations Director Jennifer Gordon
Engineering Director John Vicente
Environmental Services Director Richard Sawyer
Development Services Director Samantha Loyuk
Housing & Human Services Manager Tambi Cork
Principal Planner Todd Hall
Senior Planner/Spanish Interpreter Brittany Chue
Kenmore Police Chief Brandon Moen

CALL SPECIAL MEETING TO ORDER

Mayor Herbig called the special meeting to order at 6:00 PM.

COMMUNITY TOWN HALL

The Kenmore City Council held a Community Town Hall. Councilmembers and staff sat at round tables to have informal discussions with members of the public about the following topics:

- Climate Action & Environmental Stewardship
- Financial Sustainability
- Housing and Human Services
- Economic Development and Lakepointe
- Transportation and Kenmore Automated Photo Enforcement (KAPE)
- Parks and Recreation/City Operations/Public Works Operations Center (PWOC)
- Public Safety/Other

ADJOURN SPECIAL MEETING

Mayor Herbig adjourned the special meeting at approximately 8:00 PM.

Nigel Herbig, Mayor

Scott Passey, City Clerk



Voucher Certification & Approval

City of Kenmore

DATE RANGE: 04/11/2026 through 04/24/2026

I, the undersigned, do hereby certify under penalty of perjury that the materials have been furnished, the services rendered or the labor performed as described herein, that any advance payment is due and payable pursuant to a contract or is available as an option for full or partial fulfillment of a contractual obligation, and that the claim is a just, due and unpaid obligation against the City of Kenmore and that I am authorized to authenticate and certify to said claim. The following checks and electronic payments are approved for payment:

Total EFT Payments: # 1973	2,500.00
Total Checks: #58131 through 58234	902,638.31
Total Payroll EFT & Bank Drafts: Payroll/Taxes/FSA/HSA/Retirement: Dated 04/17/2026	309,979.08
Total Wire Transfers:	1,300,000.00


Teri P. Killgore (Apr 29, 2026 19:12:36 PDT)
City Manager / Date

Apr 29, 2026


Melinda Merrrell
Finance Director / Date

Apr 28, 2026

Vendor Name	Payment Number	Payment Date	Description (Item)	Amount
CENTER FOR HUMAN SERVICES	1973	04/24/2026	Q1 2026 Contribution	2,500.00
AWC EMPLOYEE BENEFIT TRUST/VIMLY	58131	04/17/2026	Employee Health Insurance	112,210.92
VOID	58132	04/17/2026	VOID	-
VOID	58133	04/17/2026	VOID	-
CITY OF KENMORE	58134	04/17/2026	Wages Overpayment Reimbursement	100.00
DEPARTMENT OF LABOR AND INDUSTRIES	58135	04/17/2026	City of Kenmore	7,348.47
VOID	58136	04/17/2026	VOID	-
VOID	58137	04/17/2026	VOID	-
ESD - LTC	58138	04/17/2026	Long Term Care Fund	2,573.46
VOID	58139	04/17/2026	VOID	-
ESD - PFML	58140	04/17/2026	Paid Family & Medical Leave	6,608.94
VOID	58141	04/17/2026	VOID	-
VOID	58142	04/17/2026	VOID	-
NATIONAL LIFE INSURANCE CO.	58143	04/17/2026	Life Insurance	37.50
NORTHWEST ARBORICULTURE LLC	58144	04/24/2026	Consulting Arborist - PWOC	850.00
4LEAF INC	58145	04/24/2026	Mar 2026 Permit Tech Consultant	3,400.00
ACORN CONSULTING LLC	58146	04/24/2026	May 2026 Federal Consulting	6,000.00
AFRICANS ON THE EASTSIDE	58147	04/24/2026	Q1 2026 Contribution	750.00
AGORA REFRESHMENTS	58148	04/24/2026	Apr 2026 Filtered Water CH & PW Shop	198.37
AM TEST, INC	58149	04/24/2026	Swamp Creek TMDL Samples A26C0663-01 to -10	300.00
ANSWERING SERVICE CARE LLC	58150	04/24/2026	Apr 2026 After Hours Answering Svc	169.00
APPLEONE EMPLOYMENT SERVICES	58151	04/24/2026	Temp Receptionist Ending 02/21, 2/28, 3/07, 4/04	6,753.74
AURORA RENTS	58152	04/24/2026	Rotary Cleaner Rental Streets & Parks	82.47
BCN TELECOM, INC.	58153	04/24/2026	Apr-May 2026 Phones CH	1,269.21
BEAVERS NORTHWEST	58154	04/24/2026	Consulting 25-C3101	1,948.93

Vendor Name	Payment Number	Payment Date	Description (Item)	Amount
BRAD BURLISON	58155	04/24/2026	Reimbursement Travel - CDL Trive Test	64.24
BUILDERS EXCHANGE OF WASHINGTON INC	58156	04/24/2026	Online Project Publish 2026 ADA Upgrades - T252	74.40
CANON FINANCIAL SERVICES, INC.	58157	04/24/2026	Apr 2026 Copier Rental 2nd Floor	266.56
CASCADE PEST CONTROL	58158	04/24/2026	Apr 2026 Pest Control Parks & CH	578.64
CEDAR GROVE COMPOSTING, INC.	58159	04/24/2026	Sept 2025 Cadman Legal Services	28.06
CHARLIE PARKS	58160	04/24/2026	Reimbursement Uniform Allowance	196.88
CHICAGO TITLE	58161	04/24/2026	Mailing Labels for PRJ25-0056	3.50
COMCAST	58162	04/24/2026	Apr 2026 Internet CH & Hangar	2,216.30
COMCAST BUSINESS	58163	04/24/2026	Apr-May 2026 Internet & Cable CH	157.21
CWA CONSULTANTS, PS	58164	04/24/2026	CWA Consulting BO & Building Plan Review	1,820.00
DOMESTIC ABUSE WOMENS NETWORK	58165	04/24/2026	Q1 2026 Contribution	1,250.00
ELYON MAINTENANCE, INC.	58166	04/24/2026	Rootball Removal Trees on 73rd	3,000.00
ENVIRONMENTAL SYSTEMS RESEARCH INST	58167	04/24/2026	2026-27 Annual GIS Software Subscription	21,442.32
ESD - UI TAX ADMINISTRATION	58168	04/24/2026	Q1 2026 Reimbursable Employer	3,558.07
FIRE PROTECTION, INC	58169	04/24/2026	2026 Fire Alarm Components CH, Security Alarm Monitoring CH & Hangar, Inspection Hangar	4,385.86
FLYWAY RETAIL + LIVING	58170	04/24/2026	Q4 2025 Garbage/Recycle Hangar/Town Square	1,834.23
FOURTEN CREATIVE	58171	04/24/2026	2026-27 FK Dir/Web Media Storage Plugin Renewal	70.80
GAMETIME	58172	04/24/2026	Amount Due from Original Invoice	26.00
HILLIS CLARK MARTIN & PETERSON P.S.	58173	04/24/2026	Legal for Lakepointe Matter 24017.002	225.00
HOME DEPOT CREDIT SERVICES	58174	04/24/2026	Supplies & Equipment	1,073.05
HONEY BUCKET	58175	04/24/2026	PW Yard Honey Bucket	176.00
HOPELINK	58176	04/24/2026	Mobile Food Market Earth Day Event	500.00
HORIZON DISTRIBUTORS INC	58177	04/24/2026	Lodge Pole ROW Street Trees, Irrigation Materials Streets & Parks	981.39
INSLEE, BEST, DOEZIE & RYDER, P.S.	58178	04/24/2026	Mar 2026 Professional Services	48,172.18
IRUM YASIR BUTT	58179	04/24/2026	Security Dep Refund CH Reservation Permit 2673	250.00
JD STOLLWERCK	58180	04/24/2026	Duplicate Permit Refund PLU26-0188	302.82
JET CITY PRINTING	58181	04/24/2026	Quad Printing	134.01
JOHN VICENTE	58182	04/24/2026	Reimbursement APWA Conference	1,340.24
KAITLIN GRIMM	58183	04/24/2026	Reimbursement ICC Certification	260.00
KENMORE SENIOR CENTER	58184	04/24/2026	Q1 2026 Contribution	11,750.00
KIMLEY HORN AND ASSOCIATES, INC.	58185	04/24/2026	Mar 2026 Professional Svcs 25-C3134	1,200.00
KING COUNTY FINANCE	58186	04/24/2026	Solid Waste Division Streets Dumping	110.63
KING COUNTY RADIO COMM SERVICES	58187	04/24/2026	Feb 2026 Emergency Radio Maintenance	618.79
MCKEE APPRAISAL REAL ESTATE SERVICES &	58188	04/24/2026	Garcia Property Appraisal	5,600.00
MSR COMMUNITIES LLC	58189	04/24/2026	Deposit Refund PRJ2015-031/ENG19-0632	7,500.00
NAMI EASTSIDE	58190	04/24/2026	Q1 2026 Community & Youth Mental Health Contribution	2,500.00
NORTHSHORE SENIOR CENTER	58191	04/24/2026	Q1 2026 Adult Day Health/Inclusion Contribution	2,000.00
NORTHSHORE UTILITY DIST	58192	04/24/2026	Jan-Mar 2026 Irrigation Rhododendron Park	12,172.44
VOID	58193	04/24/2026	VOID	-
NORTHWEST TROPHY	58194	04/24/2026	Name Tag Council	15.98
OFFICE DEPOT	58195-58197	04/24/2026	Misc. Office Supplies & Keyboard & Mouse DS	302.10
OLBRECHTS & ASSOCIATES, PLLC	58198	04/24/2026	Apr 2026 HE Svcs - Aquino Appeal	216.00
OPEN DOORS FOR MULTICULTURAL FAMILIES	58199	04/24/2026	Q1 2026 Contribution	1,250.00
OSBORN CONSULTING INC.	58200	04/24/2026	Feb 2026 Professional Svcs 23-C2994	28,234.58
OTTO ROSENAU & ASSOCIATES, INC	58201	04/24/2026	Mar 2026 PWOC Concrete Inspection	1,836.00
PAWS	58202	04/24/2026	Feb 2026 Animal Sheltering Svcs 10-C873	248.00

Vendor Name	Payment Number	Payment Date	Description (Item)	Amount
VOID	58203	04/24/2026	VOID	-
PLYWOOD SUPPLY	58204	04/24/2026	Wood for SW WO 18068	171.64
PROCOM LLC	58205	04/24/2026	OPS Crew Drug Test	72.00
PUGET SOUND EMERGENCY RADIO NETWORK (	58206	04/24/2026	Q2 2026 Emergency Radio Network	1,200.81
PUGET SOUND ENERGY	58207-58208	04/24/2026	Gas, Electricity Facilities, Parks with Updated Rate Schedule & Corrected Invoices	28,225.50
QUADIENT FINANCE USA INC	58209	04/24/2026	Mar 2026 Postage Added to Machine	1,000.00
REPUBLIC SERVICES #172	58210	04/24/2026	Mar 2026 Solid Waste CH & PW Shop	1,839.16
RYATT CONSTRUCTION LLC	58211	04/24/2026	Mar 2026 PWOC Site Work	401,083.03
SCORE	58212	04/24/2026	Feb & Mar 2026 Virtual Court, Mar 2026 Dedention-Housing Medical 19C2113	13,419.32
SEATTLE TIMES	58213	04/24/2026	Ad ADA Updade Project	410.38
SENTINEL OFFENDER SERVICES, LLC	58214	04/24/2026	Feb 2026 Ankle Monitor Svcs 23-C2982	324.83
STAPLES	58215	04/24/2026	Supplies CH & Hangar Maintenance & Stock Parks	1,493.91
STEWART MACNICHOLS HARMELL, INC.	58216	04/24/2026	Feb & Mar 2026 Indigent Public Defence Svcs 06-C537	10,000.00
SUSTAINABLE MUSIC NORTHWEST	58217	04/24/2026	Music Performance for Earth Day	825.00
TACOMA SCREW PRODUCTS, INC.	58218	04/24/2026	Parts & Supplies SW & Small Tools Streets	315.17
TOTAL LANDSCAPE CORP	58219	04/24/2026	Landscaping Parks, CH & Apr Landscaping ROW	18,674.78
URBAN FORESTRY NURSERY, INC.	58220	04/24/2026	Replace Voided Check 58119	2,604.23
WA STATE DEPT OF TRANSPORTATION	58221-58225	04/24/2026	RRMP Trainings PW & Mar 2026 WSDOT Traffic Signal Maintenance	1,378.87
WAGNER ARCHITECTS	58226	04/24/2026	Mar 2026 PWOC Consultant - Facility Architect	57,421.15
WALTER E. NELSON CO.	58227	04/24/2026	Replacement Key for CH Garage Sweeper	28.13
WASHINGTON AUTISM ALLIANCE	58228	04/24/2026	Q1 2026 Contribution	500.00
WASHINGTON CITY/COUNTY MGMT ASSOC	58229	04/24/2026	NWWLA 2026 Spring Women's Leadership Summit	220.60
WM CORPORATE SERVICES INC.	58230	04/24/2026	Apr 2026 Street Sweeper Dump Fees	2,771.19
XEROX CORPORATION	58231	04/24/2026	Mar 2026 Copier Rental, Color & BW Copy Overages 1st Floor	545.07
ZEN DEVELOPMENT, LLC	58232	04/24/2026	Deposit Refund PRJ16-0007/ENG19-0922	13,845.65
ZIPLY FIBER	58233	04/24/2026	Apr 2026 Phones CH	663.90
ZHEN LUAN	58234	04/24/2026	Replace Voided Check 58203 - Deposit Refund PRJ2006-031/ENG2011-0371	23,060.70
MISSION SQUARE / 109964	DFT0003186-3187	04/17/2026	City of Kenmore 401a & Loans	32,099.49
DRS 457	DFT0003188-3190	04/17/2026	DRS 457 Deferred Comp	1,888.94
MISSION SQUARE 457 / 304745	DFT0003191-3195	04/17/2026	ICMA 457 Deferred Comp	8,208.65
NAVIA HSA	DFT0003196	04/17/2026	Employee Health Savings Contribution	382.76
LINCOLN NATIONAL LIFE INSURANCE	DFT0003197-3198	04/17/2026	Life Ins/ADD & LTD	2,588.08
PERS DEPT OF RETIREMENT SYSTEMS	DFT0003199-3206	04/17/2026	Public Employees Retirement	30,772.01
NAVIA FSA	DFT0003207	04/17/2026	Employee Flexible Spending Account	998.84
BANNER BANK 941 DEPOSIT	DFT0003208	04/17/2026	Federal Withholding, Medicare & Fed Withholding	35,991.63
PAYROLL	Electronic Deposit	04/17/2026	Direct Deposit	197,048.68
US BANK	Wire Transfer	04/20/2026	Bond Purchase	1,300,000.00
Grand Total:				2,515,117.39

Vendor Purchasing Report

For Date Range 01/01/2026 - 04/24/2026

Name	Volume
3CMA CITY-COUNTY COMMUNICATIONS & MARKETING ASSOC.	400.00
4LEAF INC	11,167.50
ACORN CONSULTING LLC	24,000.00
AFRICANS ON THE EASTSIDE	1,500.00
AGORA REFRESHMENTS	1,362.01
ALL BATTERY SALES & SERVICE	220.16
ALLPLAY SYSTEMS LLC	458.85
ALPHAGRAPHICS	471.24
AM TEST, INC	1,140.00
AMBER CLIFTON	524.68
AMERICAN GENERAL LIFE GPO/400S	881.32
AMERICAN TRAFFIC SOLUTIONS INC	141,631.85
ANSWERING SERVIVCE CARE LLC	614.35
ANTANIE JUMANCA	7,500.00
AON RISK INSURANCE SERVICES WEST, INC	200.00
APPLEONE EMPLOYMENT SERVICES	11,944.94
ARMSTRONG SERVICES	39,676.68
ARTS OF KENMORE	1,980.00
ASSOCIATION OF WA CITIES	24,566.00
AURORA RENTS	392.62
AWC EMPLOYEE BENEFIT TRUST/VIMLY	460,979.44
AWCPD	95.00
AZTECA SYSTEMS, LLC	47,352.24
BANNER BANK 941 DEPOSIT	293,716.28
BCN TELECOM, INC.	4,870.86
BEAVERS NORTHWEST	9,879.34
BECKWITH CONSULTING GROUP	1,920.00
BOB OATES SEWER ROOTER LLC	684.90
BOTHELL KENMORE CHAMBER OF COMMERCE	8,000.00
BRAD BURLISON	648.51
BROADCAST MUSIC, INC.	459.82
BUILDERS EXCHANGE OF WASHINGTON INC	601.36
BULGER SAFE & LOCK, INC.	2,218.74
CALPORTLAND COMPANY	160.24
CANON FINANCIAL SERVICES, INC.	1,066.24
CASCADE PEST CONTROL	2,402.80
CEDAR GROVE COMPOSTING, INC.	1,761.07
CENTER FOR HUMAN SERVICES	23,813.00
CERTAPRO PAINTERS	530.79
CHAE LAW FIRM, O.S. IOLTA	16,818.10
CHARLES KAUFMANN	443.81
CHARLIE PARKS	196.88
CHICAGO TITLE	471.97
CITY OF BELLEVUE	97,377.40
CITY OF KENMORE	4,304.06

Name	Volume
CITY OF KENT	575.00
CITY OF LAKE FOREST PARK	87,216.00
CODE PUBLISHING COMPANY	1,624.99
COMCAST	8,876.84
COMCAST BUSINESS	856.54
COMMANDLINK	9,857.79
CONFLUENCE ENVIRONMENTAL COMPANY	4,012.35
CONVERGINT TECHNOLOGIES	1,282.79
CORE DESIGN, INC.	1,359.60
CORNERSTONE ARCHITECTUAL GROUP	10,000.00
COSTAR REALTY INFORMATION INC	948.58
CWA CONSULTANTS, PS	1,820.00
DAILY JOURNAL OF COMMERCE	1,505.90
DAVID SAMOLYUK	136.75
DE LA SOIL LLC	300.00
DEPARTMENT OF LABOR AND INDUSTRIES	28,442.16
DGR DEVELOPMENT, INC.	3,538.01
DOMESTIC ABUSE WOMENS NETWORK	2,500.00
DRS 457	13,960.66
DTG RECYCLE	37,933.00
E SQUARED SYSTEMS, LLC	595.62
ELECTRONIC BUSINESS MACHINES	779.52
ELYON MAINTENANCE, INC.	72,571.71
ENVIRONMENTAL SYSTEMS RESEARCH INST	21,442.32
ESD - LTC	10,233.34
ESD - PFML	26,274.01
ESD - UI TAX ADMINISTRATION	3,558.07
EVERGREEN METAL WORKS LLC	7,499.50
FAMILIES OF COLOR SEATTLE	1,305.00
FERGUSON WATERWORKS #3156	564.97
FIRE PROTECTION, INC	4,385.86
FLEMINGS HOLIDAY LIGHTING LLC	1,825.88
FLYWAY RETAIL + LIVING	1,834.23
FOURTEN CREATIVE	70.80
FUELCARE	2,704.39
GALLO, ELLY	46.41
GAMES2U	1,480.99
GAYLYNN BRIEN	132.24
GORDON THOMAS HONEYWELL	14,370.00
GRAINGER	477.58
H.D. FOWLER COMPANY	402.07
HEIDELBERG MATERIALS	1,423.33
HENDEN ELECTRIC INC	35,990.00
HERRERA ENVIRONMENTAL CONSULTANTS	1,824.42
HESTON PHOTOGRAPHY	580.70
HILLIS CLARK MARTIN & PETERSON P.S.	3,422.50
HIMA NURSERY, INC.	2,813.22
HOLMBERG COMPANY	2,463.81

Name	Volume
HOME DEPOT CREDIT SERVICES	5,174.68
HONEY BUCKET	1,139.75
HOPELINK	500.00
HORIZON DISTRIBUTORS INC	5,845.02
HOUSING CONNECTOR	1,250.00
HRA VEBA TRUST	22,995.00
INSLEE, BEST, DOEZIE & RYDER, P.S.	124,350.83
INTEGRA REALTY RESOURCES - SEATTLE	9,000.00
IRUM YASIR BUTT	250.00
iWORQ SYSTEMS	2,800.00
JACOBS ENGINEERING GROUP	257,696.23
JANBOLAT ABSEIT	39.80
JAYMARC AV	415.00
JD STOLLWERCK	302.82
JET CITY PRINTING	1,190.83
JOHN VICENTE	1,582.71
KAITLIN GRIMM	260.00
KBA INC.	6,511.01
KENMORE ELEMENTARY PTA	1,250.00
KENMORE HERITAGE SOCIETY	2,500.00
KENMORE MIDDLE SCHOOL	2,750.00
KENMORE SENIOR CENTER	11,750.00
KIMLEY HORN AND ASSOCIATES, INC.	4,390.00
KING COUNTY FINANCE	142,472.55
KING COUNTY RADIO COMM SERVICES	618.79
KING COUNTY SHERIFF	1,002,843.99
KPFF CONSULTING ENGINEERS	169,381.78
LAKE CITY PICTURE FRAMING	165.13
LANGUAGE LINE SERVICES, INC.	4.21
LIGHTHOUSE CONSULTING INC	57,814.77
LINCOLN NATIONAL LIFE INSURANCE	10,655.20
LUCAS FOWLER	223.30
MANJINDER DHALIWAL & PARMINDER BHANDAL	5,359.83
MARY MILLER STEPHENS	3,750.00
MAURITA COLBURN	112.48
MCKEE APPRAISAL REAL ESTATE SERVICES & CONSULTING, INC.	5,600.00
MELANIE O'CAIN	435.78
MICHELLE KANG	883.67
MINUTEMAN PRESS	903.65
MISSION SQUARE / 109964	263,310.33
MISSION SQUARE 457 / 304745	73,051.47
MKS PROPERTIES	11,053.94
MORGAN STANLEY CAPITAL MANAGEMENT LLC	5,000.00
MSR COMMUNITIES LLC	7,500.00
NAMI EASTSIDE	5,000.00
NANCY OBERG	8,500.00
NARWHAL MET, LLC	1,275.00
NATHAN LOUTSIS	788.40

Name	Volume
NATIONAL LEAGUE OF CITIES	2,256.00
NATIONAL LIFE INSURANCE CO.	150.00
NAVIA FSA	22,245.72
NAVIA HSA	3,062.08
NELSON ELECTRIC, INC.	5,425.66
NIGEL HERBIG	1,554.36
NORTHSHORE PARK & REC SERVICE AREA	2,720.00
NORTHSHORE SCHOOLS FOUNDATION	1,250.00
NORTHSHORE SENIOR CENTER	7,000.00
NORTHSHORE UTILITY DIST	53,893.66
NORTHSHORE YOUTH SOCCER ASSOC.	55.00
NORTHWEST ARBORICULTURE LLC	9,488.22
NORTHWEST TROPHY	208.21
NUHSA	1,880.00
OFFICE DEPOT	1,943.36
OLBRECHTS & ASSOCIATES, PLLC	216.00
OLSON BROTHERS PRO VAC LLC	7,474.31
OLYMPIC ENVIRONMENTAL RESOURCES INC	8,430.78
OPEN DOORS FOR MULTICULTURAL FAMILIES	2,500.00
O'REILLY/FIRST CALL	71.05
OSBORN CONSULTING INC.	176,441.32
OTTO ROSENAU & ASSOCIATES, INC	7,475.75
PACE ENGINEERS, INC.	36,377.00
PACIFIC TOPSOILS	1,753.66
PanGEO, INC	1,967.50
PARAMETRIX INC	66,455.47
PARKROSE/McLENDONS HARDWARE	195.14
PAWS	734.00
PENDLETON CONSULTING LLC	11,699.90
PERS DEPT OF RETIREMENT SYSTEMS	251,287.85
PLYWOOD SUPPLY	541.28
PRECISION CONCRETE CUTTING	9,565.35
PROCOM LLC	72.00
PROFESSIONAL SPORTS PUBLICATIONS INC	2,500.00
PSR MECHANICAL, LLC	9,307.61
PUGET SOUND CLEAN AIR AGENCY	25,127.00
PUGET SOUND EMERGENCY RADIO NETWORK OPERATOR	2,401.62
PUGET SOUND ENERGY	236,443.92
PUGET SOUND FINANCE OFFICERS ASSOC	75.00
PUT A STAGE ON IT	3,998.38
QUADIENT FINANCE USA INC	1,510.00
QUADIENT LEASING USA, INC.	920.89
QUINN PROFFITT	245.50
REGIONAL ANIMAL SERVICES OF KC	180.00
REGIONAL CRISIS RESPONSE AGENCY	52,033.25
REPUBLIC SERVICES #172	6,372.57
RRJ COMPANY, LLC	101,574.51
RYATT CONSTRUCTION LLC	1,576,859.22

Name	Volume
SAGACITY MEDIA, INC.	1,200.00
SANDA INC	7,500.00
SARABJIT MANN	2,000.00
SARAH ROBERTS	42,220.53
SCENIC 365 LLC	2,000.00
SCHINDLER ELEVATOR CORPORATION	1,153.78
SCORE	79,038.91
SCOTT PASSEY	722.50
SEATTLE TIMES	1,921.22
SENTINEL OFFENDER SERVICES, LLC	1,267.36
SESAC	641.00
SHERWIN WILLIAMS CO.	200.31
SHI INTERNATIONAL CORP.	45,617.50
SHORELINE FIRE DEPT	15,034.00
SHRED IT, C/O STERICYCLE, INC>	394.04
SISKUN POWER EQUIPMENT	576.81
SITESCAPES, INC.	22,272.51
SNOHOMISH COUNTY	2,348.00
SOFTWAREONE, INC.	663.29
SPECIALTY DOOR SERVICE, INC.	2,719.56
STAPLES	10,256.06
STATE AUDITOR'S OFFICE	8,301.45
STEWART MACNICHOLS HARMELL, INC.	20,000.00
SUNBELT RENTALS	3,206.22
SUSTAINABLE MUSIC NORTHWEST	825.00
T MOBILE USA, INC.	5,988.31
TACOMA SCREW PRODUCTS, INC.	354.86
TAMBI CORK	428.50
TARA DUNFORD	2,152.50
TAYLOR MADE TDS, INC	4,027.12
TOBIN BENNETT GOLD	1,403.94
TOTAL LANDSCAPE CORP	82,613.15
TRUSTEES OF THE HAMLINE UNIVERSITY OF MINNESOTA	1,561.62
TYLER TECHNOLOGIES, INC.	479.81
U.S. BANK PURCHASE CARDS	53,959.85
ULINE	1,712.29
URBAN FORESTRY NURSERY, INC.	2,604.23
US POSTAL SERVICE	2,566.69
UTILITIES UNDERGROUND LOCATION CTR	370.38
V2WORKS	2,136.01
VECA ELECTRIC & TECHNOLOGIES, LLC	42,351.67
VERGE STUDIOS	7,700.00
VERIZON WIRELESS	150.12
WA ASSOC OF BUILDING OFFICIALS	25.00
WA CITIES INSURANCE AUTHORITY	896,332.00
WA STATE DEPT OF LABOR & INDUSTRIES	302.30
WA STATE DEPT OF TRANSPORTATION	1,329.25
WA STATE DEPT OF TRANSPORTATION	700.00

Name	Volume
WAGNER ARCHITECTS	282,596.65
WALTER E. NELSON CO.	28.13
WASHINGTON ASSOCIATION OF CONSERVATION DISTRICTS	220.00
WASHINGTON AUTISM ALLIANCE	1,000.00
WASHINGTON CITY/COUNTY MGMT ASSOC	441.20
WASHINGTON RECREATION & PARK ASSOC.	1,210.00
WASHINGTON STATE TREASURER	3,009.60
WASHINGTON STATE UNIVERSITY-CONFERENCE MANAGEMENT	1,200.00
WESTERN DISPLAY FIREWORKS, LTD.	8,750.00
WESTLAKE HARDWARE WA-153	533.74
WHIRLWIND SERVICES, INC.	18,353.28
WM CORPORATE SERVICES INC.	19,972.53
XEROX CORPORATION	2,179.19
ZEN DEVELOPMENT, LLC	37,713.14
ZHEN LUAN	23,060.70
ZIPLY FIBER	2,514.24
ZONAR SYSTEMS	545.06

2026-04-24 Voucher List for Approval

Final Audit Report

2026-04-30

Created:	2026-04-28
By:	Jenilee Knox (jknox@kenmorewa.gov)
Status:	Signed
Transaction ID:	CBJCHBCAABAAOY_gPKS3VdEM7NiYpm7PzCJ3H5f6D9jS

"2026-04-24 Voucher List for Approval" History

-  Document created by Jenilee Knox (jknox@kenmorewa.gov)
2026-04-28 - 9:37:07 PM GMT
-  Document emailed to Melinda Merrell (mmerrell@kenmorewa.gov) for signature
2026-04-28 - 9:38:56 PM GMT
-  Email viewed by Melinda Merrell (mmerrell@kenmorewa.gov)
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-  Document e-signed by Melinda Merrell (mmerrell@kenmorewa.gov)
Signature Date: 2026-04-28 - 9:49:36 PM GMT - Time Source: server
-  Document emailed to Teri Killgore (tkillgore@kenmorewa.gov) for signature
2026-04-28 - 9:49:38 PM GMT
-  Email viewed by Teri Killgore (tkillgore@kenmorewa.gov)
2026-04-30 - 2:10:28 AM GMT
-  Document e-signed by Teri Killgore (tkillgore@kenmorewa.gov)
Signature Date: 2026-04-30 - 2:12:36 AM GMT - Time Source: server
-  Agreement completed.
2026-04-30 - 2:12:36 AM GMT

City Council Agenda Bill
City of Kenmore, WA



Meeting Date: 4/27/2026

Subject/Topic:	Proposed Council Action/Motion:
Recycling Grant Program Funds Acceptance: • 2026-2027 King County Waste Reduction & Recycling Grant Program • 2026-2027 King County Local Hazardous Waste Management Grant Program Department: Public Works Operations Prepared by: Jennifer Gordon Public Works Operations Director Attachments: Draft Grant Agreements: 1. 26-C3236 King County Waste, Reduction & Recycling Grant Program Agreement for 2026-2027. 2. 26-C3237 King County Local Hazardous Waste Management Grant Program Agreement for 2026-2027.	☐ Information Only ☐ Receive and File ☐ Discuss ☐ Provide Direction ☐ Public Hearing ☒ Adopt/Approve ☒ Authorize ☐ Other: Motion to approve the following King County Grant Agreements: 1) Agreement for Award of Local Hazardous Waste Management Grant Funds for 2026-2027 Between King County and the City of Kenmore (Agreement No. 262714); and 2) Interagency Agreement for the 2026-2027 Waste Reduction & Recycling Grant Program Between King County and the City of Kenmore (CPA # 6611134) And authorize the City Manager to sign the agreements.

Approvals:

Department _____ City _____ Finance _____ City _____
 Head JG 4/27/2026 Attorney DR 4/21/26 Director MM 4/29/26 Manager TK 4/29/26 Optional _____

Summary/Background:

The City of Kenmore, in partnership with the City of Lake Forest Park, hosts two residential recycling annually. The residential recycling events are funded strictly through a combination of grant funds that include:

- **King County Waste Reduction and Recycling Grant (King County WRRR);**
- **King County Local Hazardous Waste Management Grant (King County LHWMP); and**
- Department of Ecology Solid Waste Management Local Solid Waste Financial Assistance Grant

Staff is requesting Council approval to accept funds from the following King County funding programs for the 2026-2027 grant cycle.

2026-2027 King County WRRR Grant Funds	\$ 30,617
2026-2027 King County LHWMP Grant Funds	\$ 22,734

Residential recycling events offer Kenmore residents an easy way to recycle difficult to recycle items including batteries, electronics, scrap metal, porcelain toilets/sinks, propane tanks, appliances, mattress/box springs, bulky wood, tires as well as confidential document shredding. As budget allows, we may also offer rainwater collection cisterns and compost bins at a reduced cost during our collection events. The City's recycling events are extremely popular and are very well attended, collecting a lot of material that might otherwise end up in the waste stream. Educational information is also provided to event attendees.

Previous Council Action(s):

Continued ongoing residential recycling programs.

Fiscal Consideration:

Residential recycling events are completely supported by grant funds.

Diversity, Equity, Inclusion, and Accessibility (DEIA) Consideration:

[DEIA Strategic Plan](#) | [City's Equity Framework Toolkit](#)

Goal 1. Leadership & Operations

Goal 4. Communication and Education

City Council Priorities or Budget Objective Being Addressed:

The City's top priority will always be fulfilling its core mission, which includes City governance, ensuring public safety, maintaining the City's infrastructure, complying with state and federal mandates, and safeguarding the City's finances. In addition, achieving the City's 20-year vision as described in the Comprehensive Plan is of high importance. With this context, the City Council can emphasize certain initiatives or address specific problems through its priority-setting process each year.

1.Ensure financial sustainability through revenue enhancement and cost-cutting measures.

2.Continue to implement the adopted Climate Action Plan and promote environmental stewardship, including water, air, forest, and habitat restoration and preservation.

**INTERAGENCY AGREEMENT FOR THE 2026-2027 WASTE REDUCTION & RECYCLING
GRANT PROGRAM**

Between

KING COUNTY and the CITY OF KENMORE

This two-year Interagency Agreement “Agreement” is executed between King County, a Charter County and political subdivision of the State of Washington, and the City of Kenmore, a municipal corporation of the State of Washington, hereinafter referred to as "County" and "City" respectively. Collectively, the County and City will be referred to as “Party” or “Parties.”

PREAMBLE

King County and the City of Kenmore adopted the 2024 King County Comprehensive Solid Waste Management Plan (Comp Plan), which includes waste reduction and recycling goals. In order to help meet these goals, the King County Solid Waste Division has established a waste reduction and recycling grant program for the cities that operate under the Comp Plan. This program provides funding to further the development and/or enhancement of local waste reduction and recycling projects and for broader resource conservation projects that integrate with waste reduction and recycling programs and services. This grant program does not fund household hazardous waste collection activities. Program eligibility and grant administration terms are discussed in the Grant Guidelines, attached to this Agreement as Exhibit B and incorporated herein by reference. Grant funding for this program is subject to the budget approval process of the King County Council.

Grant funding approved by the King County Council is available to all King County cities that operate under the Comp Plan. The City will spend its grant funds to fulfill the terms and conditions set forth in the scope of work, which is attached hereto as Exhibit A and incorporated herein by reference. The County expects that any information and/or experience gained through the grant program by the City will be shared with the County and other King County cities.

I. PURPOSE

The purpose of this Agreement is to define the terms and conditions for funding to be provided to the City by the County for waste reduction and recycling programs and/or services as outlined in the scope of work and budget attached as Exhibit A.

II. RESPONSIBILITIES OF THE PARTIES

The responsibilities of the Parties to this Agreement shall be as follows:

A. The City

1. Funds provided to the City by the County pursuant to this Agreement shall be used to provide waste reduction and recycling programs and/or services as outlined in Exhibit A. The total amount of funds available from this grant in 2026-2027 shall not exceed **\$30,617.00**
2. This Agreement provides for distribution of 2026-2027 grant funds to the City. However, grant funds are not available until January 1, 2026.
3. During this two-year grant program, the City will submit a minimum of two (2), but no more than eight (8), progress reports to the County in a form determined by the County. Reports must be signed by a City official. These reports will include:
 - a. a description of each activity accomplished pertaining to the scope of work; and
 - b. reimbursement requests with both a Budget Summary Report Form, which is attached hereto as Exhibit D and incorporated herein by reference, and an Expense Summary Form, which is attached hereto as Exhibit E and incorporated herein by reference, unless the City has a spreadsheet similar to the Expense Summary Form already in use, in which case the City is free to use that spreadsheet instead of the Expense Summary Form. The City will submit the form or similar spreadsheet and not submit backup documentation for grant expenses. If backup documentation is submitted, SWD will not retain it. The City shall maintain this documentation in its records.

If the City chooses to submit up to the maximum of eight(8) progress reports and requests for reimbursement during the two-year grant program, they shall be due to the County on the last day of the month following the end of each quarter (April 30, July 31, October 31, January 31), except for the final progress report and request for reimbursement, which shall be due by March 31, 2028.

If the City chooses to submit the minimum of two progress reports and requests for reimbursement during the two-year grant program, they shall be due to the County by March 31, 2027 and March 31st, 2028.

Regardless of the number of progress reports the City chooses to submit, in order to secure reimbursement, the City must provide in writing to the County by the 5th working day of 2027 and December 2028, the dollar amount of outstanding expenditures for which the City has not yet submitted a reimbursement request.

4. If the City accepts funding through this grant program for the provision of waste reduction and recycling programs and projects for other incorporated areas of King County, the City shall explain the relationship with the affected adjacent city or cities that allows for acceptance of this funding and the specifics of the proposed programs and projects within the scope of work document related thereto.
5. The City shall be responsible for following all applicable Federal, state, and local laws, ordinances, rules, and regulations in the performance of work described herein. The City assures that its procedures are consistent with laws relating to public contract bidding procedures, and the County neither incurs nor assumes any responsibility for the City's bid, award, or contracting process.
6. During the performance of this Agreement, neither the City nor any Party subcontracting under the authority of this Agreement shall discriminate on the basis of race, color, sex, religion, nationality, creed, marital status, sexual orientation, age, or presence of any sensory, mental, or physical handicap in the employment or application for employment or in the administration or delivery of or access to services or any other benefits under this Agreement as defined by King County Code, Chapter 12.16.
7. During the performance of this Agreement, neither the City nor any Party subcontracting under the authority of this Agreement shall engage in unfair employment practices as defined by King County Code, Chapter 12.18. The City shall comply fully with all applicable federal, state, and local laws, ordinances, executive orders and regulations that prohibit such discrimination. These laws include, but are not limited to, RCW Chapter 49.60 and Titles VI and VII of the Civil Rights Act of 1964.
8. The City shall use recycled paper for the production of all printed and photocopied documents related to the fulfillment of this Agreement. The City shall use both sides of paper sheets for copying and printing and shall use recycled/recyclable products wherever practical.
9. The City shall maintain accounts and records, including personnel, financial, and programmatic records, and other such records as may be deemed necessary by the County, to ensure proper accounting for all project funds and compliance with this Agreement. All such records shall sufficiently and properly reflect all direct and indirect costs of any nature expended and service provided in the performance of this Agreement.

These records shall be maintained for a period of six (6) years after termination hereof unless permission to destroy them is granted by the Office of the State Archivist in accordance with RCW Chapter 40.14. These accounts shall be subject to inspection, review, or audit by the County and/or by federal or state officials as so authorized by law.

10. The City shall maintain a record of the use of any equipment that costs more than \$1,000 and is purchased with grant funds from King County for a total period of three (3) years. The records shall be compiled into a yearly evaluation report, a copy of which shall be submitted to King County by March 31 of each year through the year 2028.

11. The City agrees to credit King County on all printed materials provided by the County, which the City is duplicating, for distribution. Either King County's name and logo must appear on King County materials (including fact sheets, case studies, etc.), or, at a minimum, the City will credit King County for artwork or text provided by the County as follows: "artwork provided courtesy of King County Solid Waste Division" and/or "text provided courtesy of King County Solid Waste Division."
12. The City agrees to submit to the County copies of all written materials which it produces and/or duplicates for local waste reduction and recycling projects which have been funded through the waste reduction and recycling grant program. Upon request, the City agrees to provide the County with a reproducible copy of any such written materials and authorizes the County to duplicate and distribute any written materials so produced, provided that the County credits the City for the materials.
13. The City will provide the King County Project Manager with the date and location of each Recycling Collection Event provided by the City, as well as copies of any printed materials used to publicize each event, as soon as they are available but no later than thirty (30) days prior to the event. If there is any change in the date or the location of an event, the City will notify the County a minimum of thirty (30) days prior to the event. If the event brochure is required for admission to the City's event, the City is exempt from having to provide the brochure to King County.
14. If the City accepts funding through this grant program for the provision of recycling collection events for adjacent areas of unincorporated King County, the City shall send announcements of the events to all residences listed in the agreed upon areas listed in Exhibit A. The announcements and all other printed materials related to these events shall acknowledge King County as the funding source.
15. This project shall be administered by Jennifer Gordon, Public Works Operations Director, or designee.

B. The County:

1. The County shall administer funding for the waste reduction and recycling grant program. Funding is designated by the city and is subject to the King County Council's budget approval process. Provided that the funds are allocated through the King County Council's budget approval process, grant funding to the City will include a base allocation of \$10,000 per year with the balance of funds to be allocated according to the City's percentage of King County's residential and employment population. However, if this population based allocation formula calculation would result in a city receiving less than \$10,000 per year, that city shall receive an additional allocation that would raise their total grant funding to \$10,000 per year.

2. Within forty-five (45) days of receiving a request for reimbursement from the City, the County shall either notify the City of any exceptions to the request which have been identified or shall process the request for payment. If any exceptions to the request are made, this shall be done by written notification to the City providing the reason for such exception. The County will not authorize payment for activities and/or expenditures which are not included in the scope of work and budget attached as Exhibit A, unless the scope has been amended according to Section V of this Agreement. King County retains the right to withhold all or partial payment if the City's report(s) and reimbursement request(s) are incomplete (i.e., do not include proper documentation of expenditures and/or adequate description of each activity described in the scope of work for which reimbursement is being requested), and/or are not consistent with the scope of work and budget attached as Exhibit A.
3. The County agrees to credit the City on all printed materials provided by the City to the County, which the County duplicates, for distribution. Either the City's name and logo will appear on such materials (including fact sheets, case studies, etc.), or, at a minimum, the County will credit the City for artwork or text provided by the City as follows: "artwork provided courtesy of the City of Kenmore" and/or "text provided courtesy of the City of Kenmore."
4. The County retains the right to share the written material(s) produced by the City which have been funded through this program with other King County cities for them to duplicate and distribute. In so doing, the County will encourage other cities to credit the City on any pieces that were produced by the City.
5. The waste reduction and recycling grant program shall be administered by Annie DeCosta-Klipa, Project Manager, King County Solid Waste Division, or designee.

III. DURATION OF AGREEMENT

This Agreement shall become effective on either January 1, 2026, or the date of execution of the Agreement by both the County and the City, if executed after January 1, 2026, and shall terminate on June 30, 2028. The City shall not incur any new charges after December 31, 2027. However, if execution by either Party does not occur until after January 1, 2026, this Agreement allows for disbursement of grant funds to the City for County-approved programs initiated between January 1, 2026 and the later execution of the Agreement provided that the City complies with the reporting requirements of Section II.A of the Agreement.

IV. TERMINATION

- A. This Agreement may be terminated by King County, in whole or in part, for convenience without cause prior to the termination date specified in Section III, upon thirty (30) days advance written notice.
- B. This Agreement may be terminated by either Party, in whole or in part, for cause prior to the termination date specified in Section III, upon thirty (30) days advance written notice. Reasons for termination for cause may include but not be limited to: nonperformance; misuse of funds; and/or failure to provide grant related reports/invoices/statements as specified in Section II.A.3. and Section II.A.4.
- C. If the Agreement is terminated as provided in this section: (1) the County will be liable only for payment in accordance with the terms of this Agreement for services rendered prior to the effective date of termination; and (2) the City shall be released from any obligation to provide further services pursuant to this Agreement.
- D. Nothing herein shall limit, waive, or extinguish any right or remedy provided by this Agreement or law that either Party may have in the event that the obligations, terms and conditions set forth in this Agreement are breached by the other Party.

V. AMENDMENTS

This Agreement may be amended only by written agreement of both Parties. Amendments to scopes of work will only be approved if the proposed amendment is consistent with the most recently adopted King County Comprehensive Solid Waste Management Plan. Amendments will only be approved if the proposed change(s) is (are) consistent with and/or achieves the goals stated in the scope and falls within the activities described in the scope. Funds may be moved between tasks in the scope of work, attached as Exhibit A, upon written notification by the City to King County.

VI. HOLD HARMLESS AND INDEMNIFICATION

The City shall protect, indemnify, and hold harmless the County, its officers, agents, and employees from and against any and all claims, costs, and/or issues whatsoever occurring from actions by the City and/or its subcontractors pursuant to this Agreement. The City shall defend at its own expense any and all claims, demands, suits, penalties, losses, damages, or costs of any kind whatsoever (hereinafter "claims") brought against the County arising out of or incident to the City's execution of, performance of, or failure to perform this Agreement. Claims shall include but not be limited to assertions that the use or transfer of any software, book, document, report, film, tape, or sound reproduction or material of any kind, delivered hereunder, constitutes an infringement of any copyright, patent, trademark, trade name, and/or otherwise results in unfair trade practice.

VII. INSURANCE

- A. The City, at its own cost, shall procure by the date of execution of this Agreement and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damages to property which may arise from or in connection with performance of work pursuant to this Agreement by the City, its agents, representatives, employees, and/or subcontractors. The minimum limits of this insurance shall be \$1,000,000 general liability insurance combined single limit per occurrence for bodily injury, personal injury, and property damage. If the policy has an aggregate limit, a \$2,000,000 aggregate shall apply. Any deductible or self-insured retentions shall be the sole responsibility of the City. Such insurance shall cover the County, its officers, officials, employees, and agents as additional insureds against liability arising out of activities performed by or on behalf of the City pursuant to this Agreement. A valid Certificate of Insurance and additional insured endorsement is attached to this Agreement as Exhibit C, unless Section VII.B. applies.
- B. If the Agency is a Municipal Corporation or an agency of the State of Washington and is self-insured for any of the above insurance requirements, a written acknowledgement of self-insurance is attached to this Agreement as Exhibit C.
- C. If the Agency is a Municipal Corporation or an agency of the State of Washington and is a member of the Washington Cities Insurance Authority (WCIA), a written acknowledgement/certification of current membership is attached to this Agreement as Exhibit C.

VIII. ENTIRE CONTRACT/WAIVER OF DEFAULT

This Agreement is the complete expression of the agreement of the County and City hereto, and any oral or written representations or understandings not incorporated herein are excluded. Waiver of any default shall not be deemed to be a waiver of any subsequent default. Waiver of breach of any provision of this Agreement shall not be deemed to be waiver of any other or subsequent breach and shall not be construed to be a modification of the terms of this Agreement unless stated to be such through written approval by the County, which shall be attached to the original Agreement.

IX. TIME IS OF THE ESSENCE

The County and City recognize that time is of the essence in the performance of this Agreement.

X. SEVERABILITY

If any section, subsection, sentence, clause or phrase of this Agreement is, for any reason, found to be unconstitutional or otherwise invalid by a court of competent jurisdiction, such decision shall not affect the validity of the remaining portions.

XI. NOTICE

Any notice required or permitted under this Agreement shall be deemed sufficiently given or served if sent to the King County Solid Waste Division and the City at the addresses provided below:

Annie DeCosta-Klipa, Project Manager, or a provided designee
King County Solid Waste Division
Department of Natural Resources and Parks
adecostaklipa@kingcounty.gov

If to the City:

Jennifer Gordon, Public Works Operations Director, or a provided designee
City of Kenmore
18120 68th Ave NE
Kenmore, WA 98028

IN WITNESS WHEREOF this Agreement has been executed by each Party on the date set forth below:

City of Kenmore

BY _____
Teri Killgore, City Manager

King County

BY _____
Christopher Stubbs, Deputy Division
Director
Solid Waste Division

Date

Date

King County Waste Reduction and Recycling Grant Program
City of Kenmore
2026-2027 Scope of Work

A. Basic Information

1. City of Kenmore
2. City Contact: Jennifer Gordon
Public Works Operations Manager
City of Kenmore
18120 68th Ave NE
Kenmore, WA 98028
TEL – 425-398-8900
FAX – 425-481-3236
Email – jgordon@kenmorewa.gov
3. Contractor: Olympic Environmental Resources
4715 SW Walker Street
Seattle, WA 98136
TEL - (206) 938-8262
Email – pauldevine@msn.com
4. 2026-2027 Budget: \$30,617.00

B. Scope of Work

1. Task One: Recycling Collection Events

A) Schedule - Spring and Fall, 2026-2027

B) Task Activities - the City will co-host events with Lake Forest Park.

- Total Number of Recycling Collection Events – Four or more
- Materials to be collected:
 - Appliances
 - Refrigerators and Freezers+
 - Ferrous Metals
 - Non-ferrous Metals
 - Tires+
 - Lead Acid Batteries
 - Household Batteries
 - Porcelain Toilets and Sinks+
 - Propane Tanks+
 - Mattresses+
 - Bulky Yard Debris

- Clean Scrap Wood
- Electronic Equipment
- Paper Shredding
- Oil and Latex Paint*
- Computer Monitors++
- TV Sets++

+User fees may apply

*Will be collected if the material is paid for by Washington PaintCare program.

++Will be collected if the material is paid for by Washington Materials Management & Financing Authority.

- The following educational materials will be distributed:
 - Information on City Recycling Programs.
 - Educational Materials produced by King County Department of Natural Resources and Local Hazardous Waste Management Plan.
 - Other educational materials as appropriate.
- Event promotional methods:
 - Events will be coordinated with King County and flyers will be sent to Kenmore and Lake Forest Park households or events will be promoted through e-notices and social media.
 - By notices in City newsletters (whenever possible).
 - By posting a notice at City Hall and City websites.
 - By publicizing the events through the King County Solid Waste Division promotional activities.

C) Task evaluation. Event reports will include:

- Number of vehicles attending
- Volume of each material collected
- Event cost by budget category
- Graphic or tabular comparison of 2026-2027 volumes and vehicles with prior year's events

D) Task Performance Objectives:

The City plans to send out promotional flyers to Kenmore and Lake Forest Park households and publicize the events through King County promotional activities, including King County websites and telephone assistance. The benefits expected by the collection of these materials will be to divert them from the waste stream and process them for recycling. The events will also provide an opportunity to recycle moderate risk waste. The King County Health Department and Washington State Department of Ecology will pay for event expenses as well.

F) Task Impact Objectives:

By hosting Recycling Collection Events, Kenmore can reduce the amount of recyclable material finding their way to the local landfill. The City of Kenmore has a population of approximately

24,520. The City expects, based on past events, that 1,700–2,000 households annually will actively participate bringing recyclable materials to the events for proper disposal and recycling. This will result in 75-85 tons of material diverted from the local waste stream for recycling.

In addition to diverting materials from the City waste stream, attracting residents to events provides an opportunity to distribute educational material on City and King County recycling programs. The educational materials can enhance the knowledge of residents and improve behavior in purchase, handling, and disposal of recyclable materials.

2. Task Two: Rain Barrel, Compost, and Worm Bin Sales

A) Task Schedule: Spring, 2026-2027

B) Task Activities:

- Bin/Barrel Sales
- Task Description - The City will implement one rain barrel, compost/worm bin sales in 2026-2027, based on the available budget. The sales will be held in conjunction with the Spring Kenmore-Lake Forest Park Recycling Collection Events. The City will:
 - Distribute subsidized rain barrels, backyard compost bins, worm bins, and educational materials to City residents. The number of bins and barrels purchased will depend on the type of units selected. Residents will be charged \$25-\$30 per unit.

C) Task Performance Objectives: The goal of this program is to achieve greater resource efficiency in the City and stimulate demand for recycled plastic. Backyard composting and vermicomposting extends the life of landfills and reduces stress on local composting facilities. This program should result in greater resource efficiency as it will encourage City residents to manage their yard and food debris on their own properties and to reuse the composted materials in their gardens as well as conserve water. The City will support recycling programs by distributing recycle content rain barrels/bins to City residents.

D) Task evaluation. Event reports will include:

- Number of rain barrels, compost bins, and worm bins distributed
- Estimated volume of recycled material diverted from the waste stream
- Event cost by budget category

2026-2027 Waste Reduction & Recycling Grant Guidelines

Program Eligibility

The King County Solid Waste Division (SWD) has prepared a list of Re+ Action Ideas and Plug & Play Project Plans that expands on the Waste Reduction & Recycling (WRR) Case Studies shared in past grant cycles. These ideas include new creative and innovative project ideas that can be adopted for WRR Grant scopes of works (Attachment 3). The goal of this list is to offer additional ideas for waste reduction projects including, ideas for incorporating Equity and Social Justice into all of our work such as transcreating materials and signage into top spoken languages in King County.

The list offers ideas for influencing waste prevention and recycling consistent with Title 10 of King County Code, the King County Strategic Climate Action Plan, and the King County 2024 Comprehensive Solid Waste Management Plan ([Comp Plan](#)), all of which have policies to achieve Zero Waste of Resources by 2030. SWD strongly encourages consideration of these projects in the development of grant proposals and encourages Cities to leverage WRR grant funds with multi-city projects.

Grant funds may be used for a variety of WRR related programs consistent with the Comp Plan. Cities are encouraged to work together to leverage funds and have a greater influence on waste prevention and recycling. Cities may choose to use their funding on one program or a combination of programs. For WRR program ideas, please refer to the Re+ Action Ideas (Attachment 2), which includes the examples below.

Sample Re+ Actions

- [Plug & Play Project Plans](#)
- [Food Waste](#) – Food rescue infrastructure investment – supporting hunger relief organizations and food banks with resources like food storage, trucks, etc.
- [Community](#) - Establishing tool and other equipment libraries or other sharing initiatives, e.g., borrow party packs for picnics and birthday parties.
- [Paper/Plastic Recycling - Multi-family](#) - Technical assistance and in-person outreach to increase recycling in multifamily complexes, with an emphasis of a multicultural and multilingual approach such as through Spanish speaking Facilitators and or use of other regularly spoken languages for a particular housing community.
- Banning single-use items in dine-in restaurants and hotels, e.g., coffee cups, water bottles, mini personal care items, etc.
- Conduct food waste audits and implement customized food waste recycling programs in economically and culturally diverse communities.

The following are not eligible for funding:

- Collection of garbage, except for residential garbage related to collection of recyclables.
- Household Hazardous Waste (HHW) education programs.
- Collection of any household hazardous waste items including, but not limited to:
 - Treated wood, paint, lead batteries, oil, gasoline, fluorescent light, and antifreeze.

Cities should pursue funding for HHW collection or education programs through the King County Hazardous Waste Management Program (HazWaste) or the Washington State Department of Ecology Local Solid Waste Financial Assistance (LSWFA) Program.

For questions about specific program eligibility or alignment with the Comprehensive Plan, please contact Annie DeCosta-Klipa at (206) 477-4563 or adecostaklipa@kingcounty.gov. You may also refer to Attachment 5 for additional guidance.

Grant Administration

Requests for Reimbursement:

Cities must submit at least one request for reimbursement per year during the funding cycle, due no later than the last working day of February of the following year. Alternately, Cities may submit requests for reimbursement as frequently as quarterly. A Budget Summary Report Form, Expense Summary Report Form and Progress Report must be used when submitting requests for reimbursement and will be provided to Cities when the grant agreements are executed.

Accrual Reporting:

By the 2nd Friday of December, Cities must notify SWD of the amount of their total expenditures for work that has been completed in the previous year but for which a request for reimbursement has not yet been submitted so that SWD can accrue the amounts.

Progress Reports

Progress reports describing program activities, accomplishments, and evaluation results must accompany each request for reimbursement. All progress reports must be signed by a City official and be submitted via email.

Amendments

Amendments to grant Interagency Agreements (IAAs) are unnecessary unless the City wishes to significantly change its scope of work. In general, a significant change would be one in which the City wishes to add or delete a task from its scope of work. Amendments will only be approved if the proposed change(s) is/are consistent with and/or achieves the goals stated in the scope and falls within the activities described in the scope. A minor change, such as moving dollars between tasks, would only require written notification, which may be submitted via e-mail. However, the City should contact SWD when considering changes to their scopes to determine if an amendment is needed.

2/12/2026

Ref#: 16874

King County Solid Waste Division
Attn: Annie DeCosta-Klipa
201 S. Jackson Street Suite 6400
Seattle, WA 98104

Re: City of Kenmore
2026-2027 Waste Reduction & Recycling Grant

Evidence of Coverage

The City of Kenmore is a member of the Washington Cities Insurance Authority (WCIA), which is a self-insured pool of over 160 public entities in the State of Washington.

WCIA has at least \$5 million per occurrence limit of liability coverage in its self-insured layer that may be applicable in the event an incident occurs that is deemed to be attributed to the negligence of the member. Liability coverage includes general liability, automobile liability, stop-gap coverage, errors or omissions liability, employee benefits liability and employment practices liability coverage.

WCIA provides contractual liability coverage to the City of Kenmore. The contractual liability coverage provides that WCIA shall pay on behalf of the City of Kenmore all sums which the member shall be obligated to pay by reason of liability assumed under contract by the member.

WCIA was created by an interlocal agreement among public entities and liability is self-funded by the membership. As there is no insurance policy involved and WCIA is not an insurance company, your organization cannot be named as an additional insured.

Sincerely,



Rob Roscoe
Deputy Director

cc: Melinda Merrell

BUDGET SUMMARY REPORT FORM
2026-2027 King County SWD Waste Reduction & Recycling Grant

Exhibit D

City: _____ Address: _____ _____ _____ Preparer's Name: _____	Date: _____ Phone: _____ Invoice #: _____ Report Period: _____ Contract #: _____
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Total amount requested this period:	_____
Total amount previously invoiced:	_____
Original contract amount:	_____
Total amount charged to date:	_____
Amount remaining for completion of interlocal:	\$ _____ -

Task #	Scope of Work Description (Task/title)	Budget	Current Quarter Costs	Amount Previously Invoiced	Remaining Balance
1					\$ -
2					\$ -
3					\$ -
4					\$ -
5					\$ -
6					\$ -
7					\$ -
	TOTALS	\$ -	\$ -	\$ -	\$ -

For King County Use					
Contract # _____					
Project	1126942	Org	720122	Exp.Account	54150 Task 22.000'
Purchase Order #	_____	Requisition #	_____	Receipt	_____
Supplier #	_____	Supplier Pay Site	_____	Invoice #	_____ Payment Type _____

Total charges this period are approved for payment:	\$ _____
Project Manager: _____	Date _____

[illegible]



Hazardous Waste Management Program

GOVERNMENTS WORKING TOGETHER FOR
A HEALTHIER AND CLEANER KING COUNTY

GRANT AGREEMENT

This Agreement is between King County and the Recipient identified below. The County department overseeing the work to be performed in this Agreement is the Department of Natural Resources and Parks (DNRP), Water and Land Resources Division (WLRD).

RECIPIENT NAME

City of Kenmore

RECIPIENT ADDRESS

18120 68th Ave NE
Kenmore, WA 98208

RECIPIENT CONTACT & EMAIL ADDRESS

Jennifer Gordon
JGordon@Kenmorewa.gov

PROJECT TITLE

Local Hazardous Waste Management Program Grant Funds for 2026 and 2027

AGREEMENT START DATE

January 1, 2026

AGREEMENT END DATE

March 31, 2028

AGREEMENT MAXIMUM AMOUNT

\$22,733.90

EXHIBITS. The following Exhibits are attached and are incorporated into this Agreement by reference:

Exhibit A – Scope of Work
Exhibit B – Budget
Exhibit C – Invoice Template
Exhibit D – Certificate/Evidence of Insurance

**AGREEMENT FOR AWARD OF
LOCAL HAZARDOUS WASTE MANAGEMENT GRANT FUNDS FOR 2026-2027**

Between

KING COUNTY and the CITY OF Kenmore

This Agreement for Award of Local Hazardous Waste Management Grant Funds “Agreement” is made by and between King County, a charter county and political subdivision of the State of Washington, acting through its Department of Natural Resources, Water and Land Resources Division and the City of Kenmore, a municipal corporation of the State of Washington, hereinafter referred to as the “County” and the “City” respectively. The County and City may be referred to individually as a “Party” and collectively as the “Parties.”

1. RECITALS

1.1 The Local Hazardous Waste Management Plan (hereafter referred to as the “Plan”) as updated in 1997, 2010, and 2021, was adopted by the participating agencies (the King County Solid Waste Division, the Seattle Public Utilities, the King County Water and Land Resources Division, and Public Health – Seattle and King County) and the cities located in King County. The Washington State Department of Ecology in accordance with RCW 70A.300.350 subsequently approved the Plan. The City is an active and valued partner in the regional Local Hazardous Waste Management Program (hereafter referred to as the “Program”).

1.2 The Plan authorizes Local Hazardous Waste Management Funds to be provided to partner cities located in King County to help fund those cities’ activities associated with hazardous waste collection and/or educational outreach and educational services.

1.3 King County has received a proposed scope of work and budget from the City and has determined that the scope of work and budget, attached hereto and incorporated herein as Exhibit A (“Scope of Work”) and Exhibit B (“Budget”), respectively, are consistent with the Plan’s and Program’s policies, goals, and objectives.

1.4 King County and the City desire to enter into this Agreement for the purpose of establishing the terms and conditions under which King County will provide an award of Local Hazardous Waste Management Funds to the City.

NOW THEREFORE, in consideration of mutual promises and covenants contained herein, the Parties hereby agree to the terms and conditions as follows:

2. AWARD OF GRANT; CONDITIONS OF GRANT

2.1 The Recitals are an integral part of this Agreement and are incorporated herein by this reference.

2.2 King County agrees to grant the City an award of Local Hazardous Waste Management Funds not to exceed \$22,733.90 (the “Award”) on a reimbursement basis as described in Section 2.5. The Award shall be used by the City solely for the performance of the activities described in this Agreement.

2.3 The City shall use the grant of Local Hazardous Waste Management Funds to provide hazardous waste collection and/or education services or programs as described in Exhibit A. The total amount of funds available from this grant from January 2026 – December 2027 shall not exceed \$22,733.90.

2.4 This Agreement provides for distribution of 2026 and 2027 grant funds to the City. Reimbursement for activities carried out and expenses incurred by the City may predate the execution date of this Agreement provided that (a) the activities have been identified by the City as being within the Scope of Work and have been approved by King County as being within such Scope of Work; (b) the expenses are incurred in carrying out the Scope of Work and are authorized by the Award; and (c) such activities and expenses otherwise comply with all other terms of this Agreement. Reimbursements shall be paid to the City only after this Agreement has been fully executed.

2.5 During this two-year grant program, the City will submit a minimum of two (2), but no more than eight (8), progress reports, which include the City’s reimbursement requests, to the County in a form determined by the County. Reports must be signed by a City official. These reports shall include all of the following:

- a. A description of each activity accomplished pertaining to the Scope of Work.
- b. Copies of invoices for expenditures or a financial statement prepared by the City’s finance department. The financial statement should include vendor names, a description of services provided, date paid, and a check or warrant number.
- c. Reimbursement requests with an Invoice Form and an Invoice Detail Form, which is attached hereto as Exhibit C and incorporated herein by reference, unless the City has a spreadsheet similar to the Invoice Detail Form already in use, in which case the City may use that spreadsheet instead of the Invoice Detail Form. The City will submit the form or similar spreadsheet and submit backup documentation for grant expenses.
- d. If the City receives funding from sources other than the Local Hazardous Waste Management Program for any of the activities set forth in Exhibit A, then the City’s reimbursement request shall acknowledge these other sources and the reimbursement request to the County shall include only a pro-rata share of the expenses.

2.5.1 If the City chooses to submit up to the maximum of eight (8) progress reports and requests for reimbursement during the two-year grant program, the reports shall be due to the County on the last day of the month following the end of each quarter (April 30, July 31, October 31, January 30), except for the final progress report and request for reimbursement, which shall be due by February 27, 2028.

2.5.2 Regardless of the number of progress reports the City chooses to submit, in order to secure reimbursement, the City must provide in writing to the County by the December 12, 2027, an

estimate or final invoice for activities completed in that calendar year for which the City has not yet submitted a reimbursement request.

2.5.3 If the City accepts funding through this grant program for the provision of hazardous waste collection or education programs and projects for other incorporated areas of King County, the City shall explain the relationship with the affected adjacent city or cities that allows for acceptance of this funding and the specifics of the proposed programs and projects within the Scope of Work document related thereto.

2.5.4 Within forty-five (45) days of receiving a request for reimbursement from the City, the Program's contract administrator shall either notify the City of any exceptions to the request which have been identified or shall process the request for payment. If any exceptions to the request are made, this shall be done by written notification to the City providing the reason for such exception. The contract administrator will not authorize payment for activities and/or expenditures which are not included in the Scope of Work and Budget attached as Exhibits A and B unless the scope has been amended according to Section 5 of this Agreement. The contract administrator retains the right to withhold all or partial payment if the City's report(s) and reimbursement request(s) are incomplete (i.e., do not include proper documentation of expenditures and/or adequate description of each activity described in the scope of work for which reimbursement is being requested), and/or are not consistent with the Scope of Work and/or Budget attached as Exhibits A and B.

2.6 The City shall be responsible for following all applicable federal, state, and local laws, ordinances, rules, and regulations in the performance of the Scope of Work described herein. The City warrants and represents that its procedures are consistent with federal, state, and local laws relating to public contract and bidding procedures. The County neither incurs nor assumes any responsibility for the City's bid, award, or contracting process.

2.7 The City shall use recycled paper for the production of all printed and photocopied documents related to the fulfillment of this Agreement. The City shall use both sides of paper sheets for copying and printing and shall use recycled/recyclable products wherever practical.

2.8 The City shall maintain accounts and records, including personnel, financial, and programmatic records, and other such records as may be deemed necessary by the County, to ensure proper accounting for all project funds and compliance with this Agreement. All such records shall sufficiently and properly reflect all direct and indirect costs of any nature expended and service provided in the performance of this Agreement.

2.8.1 These records shall be maintained for a period of six (6) years after termination hereof unless permission to destroy them is granted by the Office of the State Archivist in accordance with RCW Chapter 40.14. These accounts shall be subject to inspection, review, or audit by the County and/or by federal or state officials as so authorized by law.

2.8.2 The City shall maintain a record of the use of any equipment that costs more than \$1,000 and is purchased with grant funds from King County for a total period of three (3) years. The records shall be compiled into a yearly evaluation report, a copy of which shall be submitted to King County by March 31 of each year through the year 2029.

2.9 The City agrees to appropriately acknowledge the Program in all media produced – in part or in whole – with Program funds. Where feasible, the City will use the Program’s logo. The intent of this provision is to further strengthen this regional partnership in the public’s mind.

2.9.1 The City agrees to provide the Program with copies of all media material produced for local hazardous waste management events or activities that have been funded by the Program. The City also agrees to allow the Program to reproduce media materials created with Program money provided that the Program credits the City as the originator of that material.

2.9.2 The Program agrees to credit the City on all printed materials provided by the City to the Program, which the Program duplicates, for distribution. Either the City’s name and logo will appear on such materials (including fact sheets, case studies, etc.), or, at a minimum, the Program will credit the City for artwork or text provided by the City as follows: “artwork provided courtesy of the City of Kenmore” and/or “text provided courtesy of the City of Kenmore.”

2.9.3 The Program retains the right to share the written material(s) produced by the City, which have been funded through this grant, with other King County cities for them to duplicate and distribute. In so doing, the Program will encourage other cities to credit the City on any pieces that were produced by the City.

2.10 The City designates Jennifer Gordon (JGordon@Kenmorewa.gov) or designee, as the administrator of this Agreement for the City.

2.11 Questions or concerns regarding any issue associated with this agreement that cannot be handled by the Program’s Contract Administrator should be referred to the Local Hazardous Waste Management Program Director for resolution.

3. DURATION OF AGREEMENT

This Agreement shall become effective on either January 1, 2026, or the date of execution of the Agreement by both the County and the City and shall terminate on March 31, 2028. The City shall not incur any new charges after December 31, 2027. However, if execution by either Party does not occur until after January 1, 2026, this Agreement allows for disbursement of grant funds to the City for County-approved programs initiated between January 1, 2026, and the later execution of the Agreement provided that the City complies with the reporting requirements of Section 2.5 of the Agreement.

4. TERMINATION

4.1 King County may terminate this Agreement in whole or in part, for convenience, without cause prior to the termination date specified in Section 3, upon thirty (30) days advance written notice.

4.2 King County may also terminate this Agreement, in whole or in part, for lack of appropriation, upon thirty (30) days prior written notice to the City. In accordance with King County Code 4A.100.070, if King County terminates this Agreement for non-appropriation, then King County’s costs associated

with such termination, if any, shall not exceed the appropriation for the biennium in which termination occurs.

4.3 This Agreement may be terminated by either Party, in whole or in part, for cause prior to the termination date specified in Section 3, upon thirty (30) days advance written notice. Reasons for termination for cause may include but not be limited to nonperformance, misuse of funds, and/or failure to provide grant related reports/invoices/statements as specified in Section 2.5.

4.4 If the Agreement is terminated as provided in this section: (a) the County will be responsible to reimburse the City only for allowable expenses, in accordance with the terms of this Agreement for expenses incurred prior to the effective date of termination; and (b) the City shall be released from any obligation to provide further services pursuant to this Agreement.

4.5 Nothing herein shall limit, waive, or extinguish any right or remedy provided by this Agreement or law that either Party may have in the event that the obligations, terms, and conditions set forth in this Agreement are breached by the other Party.

5. AMENDMENTS

This Agreement may be amended only by written agreement of both Parties. Amendments to scopes of work will only be approved if the proposed amendment is consistent with the most recently adopted Hazardous Waste Management Plan. Amendments will only be approved if the proposed change(s) is (are) consistent with and/or achieves the goals stated in the scope and falls within the activities described in the scope. Funds may be moved between tasks in the Scope of Work, attached as Exhibit A, upon written notification by the City to King County and written approval by the County.

6. HOLD HARMLESS AND INDEMNIFICATION

6.1 The City agrees to indemnify, defend, and hold harmless King County, and its elected or appointed officials, employees and agents, from all suits, claims, alleged liability, actions, losses, costs, expenses (including reasonable attorney's fees), penalties, settlements and damages of whatsoever kind or nature arising out of, in connection with, or incident to any acts or omissions of the City, its employees, agents, contractors or subcontractors in performing its obligations under this Agreement, except of the County's sole negligence.

6.2 The City's obligations under this section shall include, but not be limited to all of the following: (a) The duty to promptly accept tender of defense and provide defense to the County with legal counsel acceptable to the County and at the City's own expense; (b) Indemnification of claims made by the City's own employees or agents; and (c) Waiver of the City's immunity under the industrial insurance provisions of Title 51 R.C.W. but only to the extent necessary to indemnify the County, which waiver has been mutually negotiated by the Parties. In the event it is necessary for the County to incur attorney's fees, legal expenses, or other costs to enforce the provisions of this section, all such fees, expenses, and costs shall be recoverable from The City. The provisions of this Section 6.2 shall survive the expiration, abandonment, or termination of this Agreement.

7. INSURANCE

7.1 The City, at its own cost, or its contractor(s)/subcontractor(s) at their own cost, shall procure by the date of execution of this Agreement and maintain for the duration of the Agreement, insurance against claims for injuries to persons or damages to property which may arise from or in connection with performance of work pursuant to this Agreement by the City, its agents, representatives, employees, contractors, and/or subcontractors. The minimum limits of Commercial General Liability insurance shall be \$1,000,000 per occurrence and \$2,000,000 in the aggregate for bodily injury, personal and advertising injury, and property damage. Such insurance shall include coverage for, but not be limited to, premises liability, ongoing operations, products and completed operations, advertising injury, and contractual liability. The minimum limit of Automobile Liability insurance shall be \$1,000,000 combined single limit per accident for bodily injury and property damage. If the work involves the transport of pollutants (as defined by the standard auto policy exclusion of pollution) the auto policy shall be endorsed to include endorsement CA 9948 (or its equivalent) and MCS 90, or auto pollution coverage. The minimum limit of Pollution Liability insurance shall be \$1,000,000 per occurrence and in the aggregate to cover sudden and non-sudden bodily injury and/or property damage to include the destruction of tangible property, loss of use, clean-up costs and the loss of use of tangible property that has not been physically injured or destroyed. Coverage shall include non-owned disposal sites. Any deductible or self-insured retention(s) shall be the sole responsibility of the City or its contractor(s)/subcontractor(s). Such insurance shall cover King County, its officials, employees, and agents as additional insured for full coverage and policy limits against liability arising out of activities performed by or on behalf of the City pursuant to this Agreement. A valid Certificate of Insurance and additional insured endorsement is attached to this Agreement as Exhibit D unless Section 7.2 or Section 7.3 (below) apply. Evidence of required coverage maintained by the contractor(s)/subcontractor(s) must be provided to the County prior to the commencement of any work.

7.2 If the Agency is a Municipal Corporation or an agency of the State of Washington and is self-insured for any of the above insurance requirements, a written acknowledgement of self-insurance is attached to this Agreement as Exhibit D.

7.3 If the Agency is a Municipal Corporation or an agency of the State of Washington and is a member of the Washington Cities Insurance Authority (WCIA), a written acknowledgement/certification of current membership is attached to this Agreement as Exhibit D.

8. ENTIRE CONTRACT; NO WAIVER OF DEFAULT

This Agreement is the complete expression of the agreement of the County and City hereto, and any oral or written representations or understandings not incorporated herein are excluded. Waiver of any default shall not be deemed to be a waiver of any subsequent default. Waiver of breach of any provision of this Agreement shall not be deemed to be waiver of any other or subsequent breach and shall not be construed to be a modification of the terms of this Agreement unless stated to be such through written approval by the County, which shall be attached to the original Agreement.

9. TIME IS OF THE ESSENCE

The County and City recognize that time is of the essence in the performance of this Agreement. The Scope of Work set forth in Exhibit A shall be completed by the City no later than December 31, 2027. In the event that the Scope of Work is not completed by this date, then King County shall retain any unexpended Award funds.

10. SEVERABILITY

If any section, subsection, sentence, clause, or phrase of this Agreement is, for any reason, found to be unconstitutional or otherwise invalid by a court of competent jurisdiction, such decision shall not affect the validity of the remaining portions.

11. NOTICE

Unless otherwise specified in the Agreement, all notices or documentation required or provided pursuant to this Agreement shall be in electronic form and shall be deemed duly given when received at the addresses first set forth below via electronic mail. A copy of any notice shall also be sent via first class mail to the address listed below.

Frances Bothfeld, Contract Administrator, or a provided designee
King County Department of Natural Resources and Parks
Water and Land Resources Division
Hazardous Waste Management Program
201 S. Jackson Street, Suite 6300
Seattle, WA 98104
hazwastegovrelations@kingcounty.gov

If to the City:

Jennifer Gordon, Public Works Operations Director, or a provided designee
City of Kenmore
18120 68th Ave NE
Kenmore, WA 98028
JGordon@Kenmorewa.gov

Either Party hereto may, at any time, by giving ten (10) days written notice to the other Party, designate any other address in substitution of the foregoing address to which such notice or communication shall be given.

12. GENERAL PROVISIONS

12.1 This Agreement shall be binding upon and inure to the benefit of the Parties and their respective successors and assigns.

12.2 Each Party warrants and represents that such Party has full and complete authority to enter into this Agreement and each person executing this Agreement on behalf of a Party warrants and represents that he/she has been fully authorized to execute this Agreement on behalf of such Party and that such Party is bound by the signature of such representative.

12.3 None of the funds, materials, property, or services provided directly or indirectly under this Agreement shall be used for any partisan political activity or to further the election or defeat of any candidate for public office.

12.4 This Agreement may be signed in multiple counterparts each of which shall be deemed an original, and all counterparts together shall constitute but one and the same instrument.

12.5 This Agreement is for the benefit of the Parties hereto only and is not intended to benefit any other person or entity, and no person or entity not a party to this Agreement shall have any third-party beneficiary or other rights whatsoever hereunder.

12.6 This Agreement shall be governed by and construed according to the laws of the State of Washington. Actions pertaining to this Agreement will be brought in King County Superior Court, King County, Washington.

IN WITNESS WHEREOF this Agreement has been executed by each Party on the date set forth below:

City of Kenmore

BY _____
Name, title

City of Kenmore

Date

King County

BY _____
Maythia Airhart,
Environmental Programs Section Manager
Hazardous Waste Management Program

For Girmay Zahilay, King County Executive

Date

**LOCAL HAZARDOUS WASTE MANAGEMENT PROGRAM
CITY OF KENMORE
2026-27 SCOPE OF WORK AND BUDGET**

1. PROJECT OVERVIEW:

A) Kenmore Recycling Collection Events (the City will co-host with Lake Forest Park)

B) Event Dates: Spring and Fall, 2026-27

C) Event Hours: 9 am to 3 pm

D) Event Location: Northshore Lutheran Church or other suitable location

E) Project Managers:

1) City Contact: Jennifer Gordon
Public Works Operations Director
City of Kenmore
18120 68th Ave NE
Kenmore, WA 98028
TEL – (425) 398-8900
FAX – (425) 481-3236
Email – jgordon@kenmorewa.gov

2) Outside Consultant: Olympic Environmental Resources
4715 SW Walker Street
Seattle, WA 98116
TEL - (206) 938-8262
Email – pauldevine@msn.com

F) Event Activities - materials to be collected:

- 1) Lead Acid Batteries
- 2) Household Batteries
- 3) CFC Appliances

G) Event Educational Activities - the following educational materials will be distributed:

- 1) Information on City recycling programs
- 2) Local Hazardous Waste Management Plan educational materials produced by King County.
- 3) Other appropriate educational materials.

H) Event Promotion-event promotion will be accomplished by one or more of the

following ways:

- 1) By distributing a promotional flyer through direct mailings to Kenmore and Lake Forest Park households.
- 2) By including notices in City/community newsletters.
- 3) By posting a bulletin at City Hall, on the City web site, and on the City cable channel (if available).
- 4) By publicizing the events through the King County promotional activities, including County websites.

I) 2026-27 Budget: \$22,733.90

LHWMP Grant - Estimated Costs	2026/27
Consultant Services - Management/Admin/Graphics	\$12,500.00
Consultant Services - Event Staff	\$2,500.00
Collection/Hauling Costs	
Batteries	\$4,200.00
Other Material Costs	\$0.00
Flyer Printing and Mailing	\$2,500.00
Event Supplies	\$600.00
Other Expenses - rentals and mileage, etc	\$433.90
TOTALS	\$22,733.90

Note - some costs in 2026-27 will be shared with the City of Lake Forest Park.

2. PERFORMANCE OBJECTIVES:

The City plans to send out approximately 12,000 promotional flyers per event to Kenmore and Lake Forest Park households per event and publicize the events through the City website. The City will also promote events through King County promotional activities, including County websites and telephone assistance. The City anticipates collecting 11-15 tons of material per year from the local waste stream.

The annual expected volumes of material collected, based on past events, are as follows:

<u>Type of Material</u>	<u>Total Volume</u>
Lead Acid Batteries	50-60
Household Batteries	18,000-20,000
CFC Appliances	50-65

The benefits expected by the collection of these materials will be to divert them from the waste stream where they could damage the environment and pose health risks to Kenmore residents. The volume of materials collected and diverted will be reported to the King County Health Department at the conclusion of each event. These events will also provide an opportunity to recycle solid waste. The King County Solid Waste Division and Washington State Department of Ecology will pay for the solid waste element.

3. IMPACT OBJECTIVES:

By hosting four or more Recycling Collection Events, Kenmore can further reduce the amount of environmentally damaging materials finding its way to the landfills, storm drains, streams, and other isolated sites in our City. The City of Kenmore has a population of approximately 24,500. The City expects, based on past events, that 1,600–1,800 households will actively participate in the annual events by bringing the materials listed above to the events for proper disposal and recycling each year.

In addition to diverting materials from the City waste stream, attracting residents to these events provides an opportunity to distribute educational material on City recycling programs and the Local Hazardous Waste Management Program in King County. The educational materials can enhance the knowledge of residents and improve behavior in purchase, handling, and disposal of hazardous materials.

Kenmore will provide the following information to the County for project evaluation after each event:

- 1) The number of participating vehicles.
- 2) The volume of each material collected.
- 3) Actual event cost by budget category.
- 4) Documentation of the materials collected for recycling by the respective service provider.

2/23/2026

Ref#: 16899

King County Solid Waste Division - Hazardous Waste
Attn: Frances Bothfeld
201 S. Jackson Street Suite 5600
Seattle, WA 98104

Re: City of Kenmore
King County Hazardous Waste Grant

Evidence of Coverage

The City of Kenmore is a member of the Washington Cities Insurance Authority (WCIA), which is a self-insured pool of over 160 public entities in the State of Washington.

WCIA has at least \$5 million per occurrence limit of liability coverage in its self-insured layer that may be applicable in the event an incident occurs that is deemed to be attributed to the negligence of the member. Liability coverage includes general liability, automobile liability, stop-gap coverage, errors or omissions liability, employee benefits liability and employment practices liability coverage.

WCIA provides contractual liability coverage to the City of Kenmore. The contractual liability coverage provides that WCIA shall pay on behalf of the City of Kenmore all sums which the member shall be obligated to pay by reason of liability assumed under contract by the member.

WCIA was created by an interlocal agreement among public entities and liability is self-funded by the membership. As there is no insurance policy involved and WCIA is not an insurance company, your organization cannot be named as an additional insured.

Sincerely,



Rob Roscoe
Deputy Director

cc: Melinda Merrell

INVOICE

Agreement No. xxxxx

Exhibit C

Period of Performance: 1/1/26-12/31/27

City/Tribe

Address

Address

Invoice Processing Contact: Full Name

Phone Number

Email

Submit signed invoice to:

Matthew Weintraub

Hazardous Waste Management Program

DNRP Water and Land Resources Division

201 South Jackson Street, Suite 6300

Seattle, WA 98104

hazwastegovrelations@kingcounty.gov

ALL FIELDS MUST BE COMPLETED FOR PROMPT PAYMENT PROCESSING

King County Accounts Payable Information

Purchase Order #

Supplier Name

Supplier #

Supplier Pay Site

Remit to Address

Invoice Date

Invoice #

Amount to be Paid

Requisitioner name/phone: Amanda Miller 206-477-1649

Invoice for services rendered under this
Agreement for the period of:

Start Date

End Date

Project	Organization	Expend Acct	Task	CPA	Amount

Please do not enter values in shaded cells. Enter "Previously Billed" and "Current" values only.

Expenditure Item	2026-2027 Budget	Previously Billed	Current	Cumulative	Balance
HHW Task 1	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HHW Task 2	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
HHW Task 3	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Total	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Materials and quantities collected:

Gallons of motor oil

Number of motor oil filters

Gallons of mixed fuel

Gallons of antifreeze

Pounds of lead acid batteries

Pounds of dry batteries

Number of CFC appliances

Number of fluorescent bulbs

Other (please specify)

Collection event details:

Number of collection events

Number of participants at collection events

Education event details:

Number of education events

Number of participants at education events

I, the undersigned, do hereby certify under the laws of the State of Washington penalty of perjury, that this is a true and correct claim for reimbursement services rendered. I understand that any false claims, statements, documents, or concealment of material fact may be prosecuted under applicable Federal and State laws. This certification includes any attachments which serve as supporting documentation to this reimbursement request.

Recipient - Print Name

Recipient Signature

Date

Haz Waste Program Authorization / Approval

Date

City Council Agenda Bill
City of Kenmore, WA



Meeting Date: 5/11/2026

Subject/Topic:	Proposed Council Action/Motion:
King County Get Active Stay Active Grant for the Kenmore Quad event is both 2026 & 2027. Department: Public Works Operations Prepared by: Jennifer Gordon Public Works Operations Director Attachments: Draft Contract 26-C3254 Grant Agreement	☐ Information Only ☐ Receive and File ☐ Discuss ☐ Provide Direction ☐ Public Hearing ☒ Adopt/Approve ☒ Authorize ☐ Other: Motion to approve King County Get Active and Stay Active Grant Agreement #6498958/Kenmore Contract No. 26-C3254 and authorize the City Manager to sign the agreement.

Approvals:

Department Head JG 4/27/2026 City Attorney 4/30/26 Finance Director 4/30/26 City Manager 4/29/2026 Optional _____

Summary/Background:

The City of Kenmore has agreed to take on running the Kenmore Quad Event in 2026 and 2027 as a two-year pilot project. The Kenmore Quad, previously organized by a community volunteer group, is a non-competitive four component recreation event that includes running, biking, swimming and paddling for up to 175 adult participants.

The 2026 Kenmore Quad will mark the fourth annual event hosted in the City of Kenmore with the event beginning and ending at Log Boom Park on Saturday, August 22, 2026.

1. **Swim:** Log Boom park beach (1/4-mile swim)
2. **Bike:** A gentle ride on the Burke-Gilman and Sammamish River Trail to Wayne Golf Course area and back (6-mile bike)
3. **Run:** One way from Log Boom Park on the Burke-Gilman Trail to Tl'awh-ah-dees Park (1.6-mile run)
4. **Paddle:** One way from Tl'awh-ah-dees Park to Log Boom (1.3-mile paddle)

Participants can either enter the event as an individual or as a team with up to four people. The event will be funded with a combination of registration fees and grant funding. The event itself relies heavily on volunteers to help on the day of the event along with City Public Works Operations staff. City staff are working closely with past event organizers to ensure the event continues to run

smoothly. Each participant will get an event t-shirt and an opportunity to win prizes donated by local businesses.

Previous Council Action(s):

Fiscal Consideration:

The King County Get Active and Stay Active Grant will provide a total of \$10,000 (\$5,000 for 2026 and \$5,000 for 2027) to help fund the event during the City's 2-year pilot period. The Kenmore Quad will be funded with a combination of grant funds and registration fees that will cover the following:

- Inflatable Finish Arch & Chute
- Bike Rack Rental
- Heavy-Duty Rubber Ramp (water transition) & Astroturf
- Event Communications & Signage
- Participant T-shirts, Bibs, Swim Caps and Metals
- Permitting (King County Sammamish River Trail)
- Portable Toilets

Staff time for event planning and administration is not covered.

The City's role in the Kenmore Quad beyond 2027 will be discussed throughout the period of the pilot and the supporting grant. Council will be updated periodically.

Diversity, Equity, Inclusion, and Accessibility (DEIA) Consideration:

[DEIA Strategic Plan](#) | [City's Equity Framework Toolkit](#)

Goal 1. Leadership and Operations
Goal 2. Plans, Policies & Budgets
Goal 4. Communication & Education

City Council Priorities or Budget Objective Being Addressed:

8. Explore opportunities to expand parks and recreation.
10. Broaden community engagement and foster fun.



Youth and Amateur Sports Grant Agreement

Get Active / Stay Active Program

Department/Division: Natural Resources and Parks / Parks and Recreation

Agency: City of Kenmore

Project: Kenmore Quad

Amount: \$10,000.00 Project#: 1151836 Contract#: 6498958

Term Period: _____ To 03/31/2028

THIS AGREEMENT (“Agreement”) is entered into by King County (the “County”), and City of Kenmore (the “Agency”), (collectively the “Parties”) for programming that reduces barriers and increases access to physical activity using a Youth and Amateur Sports Grant (“YASG”).

RECITALS

- A. The Agency is either a public agency or a non-profit organization that provides youth or amateur sports opportunities or acts as a fiscal sponsor for community organization.
- B. King County, a home rule chapter county and political subdivision of the State of Washington, is authorized to administer the YASG Program and enter into agreements for the use of King County funds by public agencies, nonprofit organizations, or fiscal sponsor for community organizations that increase access to sports and physical activity under King County Ordinance 20023
- C. The Agency shall utilize the Grant Award Funds to address an athletic need in King County.
- D. King County has selected the Agency to receive a YASG award in the amount of \$10,000.00 ("Grant Award Funds") for programming designed to provide increased athletic opportunities for the citizens of King County, Washington

NOW THEREFORE, in consideration of payments, covenants, and other provisions set forth in this Agreement, the Parties agree as follows:

GRANT AWARD TERMS AND CONDITIONS

1. DEFINITIONS

1.1 Project.

The term “Project” means the specific project described in **Exhibits A and B**. Grant Award Funds available pursuant to this Agreement may only be used for the Project. To complete the Project, Grant Recipient shall use the Grant Award Funds to complete the Projects, as set forth

in **Exhibits A** and **B**, consistent with the requirements set forth in this Agreement and in the following attached exhibits, which are incorporated herein by reference:

Project Summary and Scope of Work	Attached hereto as Exhibit A
Project Budget	Attached hereto as Exhibit B
Insurance Requirements	Attached hereto as Exhibit C

- 1.2 Location. This Agreement applies to the Project to take place at the site (“Site”) which is located at:

**City of Kenmore
Kenmore City Hall
18120 68th Ave NE
Kenmore, WA 98028**

**The Kenmore Quad Event will start and end at:
Log Boom Park
17415 61st Ave NE
Kenmore, WA 98028**

**The event will also include Lake Washington, King County Sammamish River Trail, and
Kenmore TI' awh-ah-dees Park.**

- 1.3 Scope of Work. Agency shall provide a County-approved Project summary and scope of work (“Scope of Work”), attached hereto as **Exhibit B**, which describes the Project in detail and includes a description of the various program milestones required for completion of the Project and intended use of the Grant Award Funds. Agency shall apply the funds received from the County for the Project under this Agreement in accordance with the Scope of Work, attached hereto as **Exhibit A**.
- 1.4 Project Budget. Agency shall work with King County to develop a Project Budget, attached hereto as **Exhibit B**. King County shall provide the Grant Award Funds to the Agency to pay for costs and expenditures related to the Project, as set forth in **Exhibits A and B**. Grant Award Funds provided to the Agency may only be used to pay for costs and expenditures related to the Project, as set forth in **Exhibits A and B**.
- 1.5 Contractor. Contractor shall include any contractor or consultant hired by the Agency, including any of the contractor’s or consultant’s subcontractors or subconsultants.
2. EFFECTIVE DATE
The Agreement shall be effective upon signature by both Parties (“Effective Date”).
3. TERM

The term (“Term”) of this Agreement shall begin on the Effective Date and end on 03/31/2028. This Agreement shall remain in effect until such time as it is amended in writing or terminated as provided herein.

4. AMENDMENTS

This Agreement together with the attached exhibits expressly incorporated herein by reference and attached hereto shall constitute the whole Agreement between the Parties. This Agreement may be amended only by an instrument, in writing, duly executed by the Parties. A one-time, one-year extension to the Contract End Date may be granted without due execution if agreement by both parties is documented in writing, which shall then be incorporated and attached to this Agreement herein.

5. NOTICES

Unless otherwise specified in the Agreement, all notices or documentation required or provided pursuant to this Agreement shall be in electronic form and shall be deemed duly given when received at the addresses first set forth below via electronic mail.

KING COUNTY	City of Kenmore
Parks Grant Manager	Jennifer Gordon Public Works Operations Director
King County Parks	City of Kenmore
201 S Jackson Street Suite #6500	18120 68TH AVE NE
Seattle, WA 98104	Kenmore, WA 98028
206-848-0699	425-398-8900
parksgrants@kingcounty.gov	jgordon@kenmorewa.gov
*NOTE: Personal contact information for your assigned grant manager is available in the grant management system	

Notice by e-mail shall be deemed to have been given on the date of transmission. Either Party hereto may, at any time, by giving ten (10) calendar days written notice to the other Party to designate any other person or address in substitution of the foregoing information to which such notice or communication shall be given.

6. DISBURSEMENT OF GRANT FUNDS

- 6.1 Notwithstanding the Effective Date of this Agreement, the County shall pay for eligible and authorized costs supported by adequate documentation, as determined by the County, for the work specified in the Scope of Work (**Exhibit A**) expended from 01/01/2026 through 03/31/2028.
- 6.2 Pre-contract costs are those incurred between Decision Date and the Agreement Effective Date and are only reimbursable upon request and only after the Effective Date of the Agreement by the Parties. These costs are allowable for reimbursement to the extent that they are eligible and authorized costs and expenses supported by adequate documentation, as determined by the County, for the work specified in **Exhibit A**.

- 6.3 The County may authorize, at County's sole discretion, release of a portion of the Grant Award Funds to Agency, upon execution of this Agreement, and receipt of Agency's County-approved completed Scope of Work and Project Budget (see Section 1 and **Exhibits A and B**).
- 6.4 The County shall initiate authorization for payment and disbursement of Grant Award Funds in a timely manner after approval of sufficiently detailed Project-related invoices submitted by Agency. The County shall make payment to Agency not more than forty-five (45) calendar days after a complete and accurate invoice and any other required documentation is received from the Grant Recipient and approved by the County.
- 6.5 Agency shall submit the final invoice, supporting documentation and any outstanding deliverables, as specified in the Scope of Work (**Exhibit A**) and Project Budget (**Exhibit B**), within thirty (30) calendar days of the date this Agreement expires or is terminated. If the Agency's final invoice, supporting documentation and reports are not submitted by the day specified in this subsection, the County will be relieved of all liability for payment to Agency of the amounts set forth in said invoice or any subsequent invoice.

7. GRANT REPORTING

All Grant Award Funds received pursuant to this Agreement and accrued interest therefrom will be accounted for separately from all other Agency accounts and moneys. Until the Project is completed, and all proceeds provided pursuant to this Agreement have been expended, the Agency shall provide reports to the YASG Project Manager on a schedule determined by the County.

8. COMPLETION OF THE PROJECT

Agency shall complete the Project described in Section 1.1 and **Exhibits A and B** of this Agreement. If Agency cannot complete the Project, as specified by the Scope of Work and deliverables set forth in **Exhibit A**, the County shall be released from any obligation to fund the Project, and the County in its sole discretion may reallocate such funds for other projects in other jurisdictions.

Pursuant to Section 18, Termination, this Agreement will be terminated if the Agency is unable or unwilling to expend the Grant Award Funds for the Project as provided in this Agreement. The Agency may not redirect Grant Award Funds for a purpose other than completion of the Project as approved by the County.

9. COMMUNICATION AND KING COUNTY MILESTONE NOTIFICATION

Agency shall recognize County as a "grant sponsor" for the Project in the following manner:

- 9.1 Events: Agency shall invite and recognize "King County Parks" at all events promoting the Project, and at the final Project dedication.
- 9.2 Community Relations: Agency shall recognize "King County Parks" as a "grant sponsor" in all social media, websites, brochures, banners, posters, press releases, and other promotional material related to the Project.
- 9.3 King County Parks Notification: Agency shall notify the King County Parks Project Manager thirty (30) calendar days prior to any major milestone, such as a

groundbreaking or opening dates.

10. DISPOSITION OF REMAINING GRANT AWARD FUNDS

If Agency does not expend all proceeds obligated to be provided through this Agreement, such proceeds, if held by Agency, shall be refunded to the County. For purposes of this section, “proceeds” shall include all Grant Award Funds obligated to be provided by the County plus interest accrued by Agency on the grant funds. Any proceeds in excess of those required to be provided by the County for the actual costs of the Project shall remain with the County for use in its sole discretion.

11. PUBLIC ACCESS

The Grant Award Funds are provided for the purpose of developing and/or supporting the delivery of sports activities or programming for, but not exclusively serving, persons under twenty-four (24) years of age, and low and moderate income communities within King County. Fees for the Project shall be no greater than those generally charged by public operators or project providers in King County.

12. MINIMUM SCOPE AND LIMITS OF INSURANCE

The Agency shall maintain, and/or require its Contractor(s) to maintain the minimum scope and limits of insurance as required in **Exhibit C** – Insurance Requirements.

13. INTERNAL CONTROL AND ACCOUNTING SYSTEM

The Agency shall establish and maintain a system of accounting and internal controls which complies with applicable, generally accepted accounting principles, and governmental accounting and financial reporting standards in accordance with Revised Code of Washington (RCW) Chapter 40.14.

14. MAINTENANCE OF RECORDS

14.1 The Agency shall maintain accounts and records, including personnel, property, financial, Project records, including Agreement deliverables, and other such records as may be deemed necessary by the County to ensure proper accounting for all Agreement funds and compliance with this Agreement.

14.2 These records shall be maintained for a period of six (6) years after the expiration or earlier termination of this Agreement unless permission to destroy them is granted by the Office of the Archivist in accordance with RCW Chapter 40.14

14.3 Agency shall inform the County in writing of the location, if different from the Agency address listed on page one of this Agreement, of the aforesaid books, records, documents, and other evidence and shall notify the County in writing of any changes in location within ten (10) business days of any such relocation.

15. RIGHT TO INSPECT

The County reserves the right to review and approve the performance of the Agency with regard to this Agreement, and, at its sole discretion, to inspect or audit the Agency's records regarding this Agreement and the Project upon seventy-two (72) hours' notice during normal business hours.

16. COMPLIANCE WITH ALL LAWS AND REGULATIONS

The Agency, in cooperation and agreement with the owners of the Site, shall comply with all applicable laws, ordinances and regulations in using funds provided by the County, including, without limitation, those relating to providing a safe working environment to employees and, specifically, the requirements of the Washington Industrial Safety and Health Act (WISHA); and, to the extent applicable, those related to “public works,” payment of prevailing wages, and competitive bidding of contracts. The Agency specifically agrees to comply and pay all costs associated with achieving such compliance without notice from King County; and further agrees that King County, does not waive this Section by giving notice of demand for compliance in any instance. The Agency shall indemnify and defend the County should it be sued or made the subject of an administrative investigation or hearing for a violation of such laws related to this Agreement.

17. CORRECTIVE ACTION

- 17.1 If the County determines that a breach of contract has occurred or does not approve of the Agency's performance, it will give the Agency written notification of unacceptable performance. The Agency will then take corrective action within a reasonable period of time, as may be defined by King County in its sole discretion in its written notification to the Agency.
- 17.2 The County may withhold any payment owed the Agency until the County is satisfied that corrective action has been taken or completed.

18. TERMINATION

- 18.1 The County may terminate this Agreement in whole or in part, with or without cause, at any time during the Term of this Agreement, by providing the Agency ten (10) calendar days advance written notice of the termination.
- 18.2 If the termination results from acts or omissions of the Agency, including but not limited to misappropriation, nonperformance of required services, or fiscal mismanagement, the Agency shall return to the County immediately any funds, misappropriated or unexpended, which have been paid to the Agency by the County.
- 18.3 Any King County obligations under this Agreement beyond the current appropriation year are conditioned upon the County Council's appropriation of sufficient funds to support such obligations. If the Council does not approve such appropriation, then this Agreement will terminate automatically at the close of the current appropriation year.
- 18.4 The Agreement will be terminated if the Agency is unable or unwilling to expend the Grant Award Funds as specified in Section 1 and **Exhibits A and B**, or upon reimbursement by the Agency to the County of all unexpended proceeds provided by the County pursuant to this Agreement and payment of all amounts due pursuant to Section 5.

19. FUTURE SUPPORT; UTILITIES AND SERVICE

The County makes no commitment to support the services contracted for herein and assumes no obligation for future support of the activity contracted for herein except as expressly set forth in this Agreement. The Agency understands, acknowledges, and agrees that the County shall not be liable to pay for or to provide any utilities or services in connection with the Project contemplated herein.

20. HOLD HARMLESS AND INDEMNIFICATION

The Agency shall protect, indemnify, and save harmless the County, its officers, agents, and employees from and against any and all claims, costs, and/or losses whatsoever occurring or resulting from (1) Agency's failure to pay any such compensation, wages, benefits, or taxes, and/or (2) work, services, materials, or supplies performed or provided by the Agency's employees or other suppliers in connection with or support of the performance of this Agreement.

The Agency further agrees that it is financially responsible for and will repay the County all indicated amounts following an audit exception which occurs due to the negligence, intentional act, and/or failure, for any reason, to comply with the terms of this Agreement by the Agency, its officers, employees, agents, representatives, or subcontractors. This duty to repay the County shall not be diminished or extinguished by the expiration or prior termination of the Agreement.

The Agency agrees for itself, its successors, and assigns, to defend, indemnify, and hold harmless King County, its appointed and elected officials, and employees from and against liability for all claims, demands, suits, and judgments, including costs of defense thereof, for injury to persons, death, or property damage which is caused by, arises out of, or is incidental to any use of or occurrence on the Project that is the subject of this Agreement, or the Agency's exercise of rights and privileges granted by this Agreement, except to the extent of the County's sole negligence. The Agency's obligations under this Section shall include:

- A. The duty to promptly accept tender of defense and provide defense to the County at the Agency's own expense
- B. Indemnification of claims made by the Agency's employees or agents; and
- C. Waiver of the Agency's immunity under the industrial insurance provisions of Title 51 RCW, but only to the extent necessary to indemnify King County, which waiver has been mutually negotiated by the parties.

In the event it is necessary for the County to incur attorney's fees, legal expenses or other costs to enforce the provisions of this Section, all such fees, expenses and costs shall be recoverable from the Agency.

In the event it is determined that RCW 4.24.115 applies to this Agreement, the Agency agrees to protect, defend, indemnify and save the County, its officers, officials, employees and agents from any and all claims, demands, suits, penalties, losses damages judgments, or costs of any kind whatsoever for bodily injury to persons or damage to property (hereinafter "claims"), arising out of or in any way resulting from the Agency's officers, employees, agents and/or subcontractors of all tiers, acts or omissions, performance of failure to perform the rights and privileges granted under this Agreement, to the maximum extent permitted by law or as defined by RCW 4.24.115, as now enacted or hereafter amended.

A hold harmless provision to protect King County similar to this provision shall be included in all Agreements or subcontractor Agreements entered into by the Agency in conjunction with this Agreement. **The Agency's duties under this Section 20 will survive the expiration or earlier termination of this Agreement.**

21. NONDISCRIMINATION

King County Code (“KCC”) chapters 12.16 through 12.19 apply to this Agreement and are incorporated by this reference as if fully set forth herein. In all hiring or employment made possible or resulting from this Agreement, there shall be no discrimination against any employee or applicant for employment because of sex, race, color, marital status, national origin, religious affiliation, disability, sexual orientation, gender identity or expression or age except minimum age and retirement provisions, unless based upon a bona fide occupational qualification.

22. POLITICAL ACITIVITY PROHIBITED

None of the funds, materials, property, or services provided directly or indirectly under this Agreement shall be used for any partisan political activity or to further the election or defeat of any candidate for public office.

23. PROJECT MAINTENANCE; EQUIPMENT PURCHASE, MAINTENANCE, AND OWNERSHIP

23.1 As between the County and the Agency, the Agency shall be responsible to operate and maintain the completed Project at its own sole expense and risk. The Agency shall maintain the completed Project in good working condition consistent with applicable standards and guidelines. The Agency understands, acknowledges, and agrees that the County is not responsible to operate or to maintain the Project in any way.

23.2 The Agency shall be responsible for all property purchased pursuant to this Agreement, including the proper care and maintenance of any equipment.

23.3 The Agency shall establish and maintain inventory records and transaction documents (purchase requisitions, packing slips, invoices, receipts) of equipment and materials purchased with Agreement funds.

23.4 **The Agency's duties under this Section 23 shall survive the expiration of this Agreement.**

24. ASSIGNMENT

Agency shall not assign any portion of rights and obligations under this Agreement or transfer or assign any claim arising pursuant to this Agreement without the written consent of the County. Agency must seek such consent in writing not less than fifteen (15) calendar days prior to the date of any proposed assignment.

25. WAIVER OF BREACH OR DEFAULT

Waiver of breach of any provision in this Agreement shall not be deemed to be a waiver of any subsequent breach and shall not be construed to be a modification of the terms of the Agreement unless stated to be such through written approval by the County, which shall be attached to the original Agreement. Waiver of any default shall not be deemed to be a waiver of any subsequent defaults.

26. TAXES

The Agency agrees to pay on a current basis all taxes or assessments levied on its activities and property, including, without limitation, any leasehold excise tax due under RCW Chapter 82.29A; PROVIDED, however, that nothing contained herein will modify the right of the

Agency to contest any such tax, and the Agency shall not be deemed to be in default as long as it will, in good faith, be contesting the validity or amount of any such taxes.

27. WASHINGTON LAW CONTROLLING; WHERE ACTIONS BROUGHT

This Agreement is made in and will be in accordance with the laws of the State of Washington, which will be controlling in any dispute that arises hereunder. Actions pertaining to this Agreement will be brought in King County Superior Court, King County, Washington.

28. PUBLIC DOCUMENT

This Agreement will be considered a public document and will be available for inspection and copying by the public.

29. LEGAL RELATIONS

Nothing contained herein will make, or be deemed to make, County and the Agency a partner of one another, and this Agreement will not be construed as creating a partnership or joint venture. Nothing in this Agreement will create, or be deemed to create, any right, duty or obligation in any person or entity not a party to it.

30. PERMITS AND LICENSES

The Agency shall develop and perform the Project in accordance with all applicable laws and regulatory requirements including environmental considerations, permitting determinations, and other legal requirements. All activities shall be performed by the Agency at its sole expense and liability. Agency shall, at its sole cost and expense, apply for, obtain and comply with all necessary permits, licenses and approvals required for the Project.

31. INTERPRETATION OF COUNTY RULES AND REGULATIONS

If there is any question regarding the interpretation of any County rule or regulation, the County decision will govern and will be binding upon the Agency.

32. POLICE POWERS OF THE COUNTY

Nothing contained in this Agreement will diminish, or be deemed to diminish, the governmental or police powers of the County.

33. ENTIRE AGREEMENT

This Agreement, including its attachments, constitutes the entire Agreement between the County and the Agency. It supersedes all other agreements and understandings between them, whether written, oral or otherwise.

KING COUNTY

City of Kenmore

King County Executive

Signature

Date

NAME (Please type or print), Title

Date

EXHIBIT A - PROJECT SUMMARY AND SCOPE OF WORK

Project Summary

Kenmore Quad Event

The Kenmore Quad Events is similar to a triathlon, with the addition of a paddling component (kayak or SUP). This is a non-timed and non-competitive community activity for up to 175 adults 18 or older. The event can be done as a single participant or as a team of up to four individuals. The event components start and end at Log Boom Park and showcase Kenmore's waterfront parks, bike paths, and pedestrian facilities.

Swim: Log Boom park beach (1/4 mile swim)

Bike: A gentle ride on the Burke-Gilman and Sammamish River Trail to Wayne Golf Course area and back (6 mile bike)

Run: One way from Log Boom Park on the Burke-Gilman Trail to Tl'awh-ah-dees Park (1.6 mile run)

Paddle: One way from Tl'awh-ah-dees Park to Log Boom (1.3 mile paddle)

Grant funds will be used to help fund the event itself which may include permitting costs, day of event equipment rentals, safety gear, and participant giveaways (metals, t-shirts, etc.).

The event is open to the general public, so anyone in the area is able to participate. Serving Kenmore and the general area including the surrounding King County cities.

The goal is to offer a fun, non-competitive, recreation opportunity to local community members. A chance for community members to come together, celebrate the end of summer while enjoying both City and County park amenities.

Deliverables

Progress Reports
Final Report

Timeline

2026 Kenmore Quad Event + Post Event Report	September 2026
2027 Kenmore Quad Event + Post Event Report	September 2027

EXHIBIT B - PROJECT BUDGET

Program Costs	\$10,000.00
Personnel Costs	\$0.00
Indirect Costs	\$0.00
Total	\$10,000

Budget Line Items Descriptions

Program Costs include but are not limited to Event Marketing & Signage, Permits, Event Participant Supplies & Materials, Boat/Standup Paddle Board Rental Bike Rack & Water Mat Rental, Volunteer Food, First Aid Supplies and further equipment needed.

Personnel Costs include but are not limited to staff pay and benefits.

Indirect Costs include expenses of doing business that are not readily identified with this grant, contract, project, function, or activity, but are necessary for the general operation of the organization or the performance of the organization's activities.

EXHIBIT C - INSURANCE REQUIREMENTS

1. Insurance Requirements

- 1.1. Grant Recipient shall purchase and maintain for the entire term of this Agreement or as otherwise stated in this Exhibit, at its sole cost and expense, the minimum insurance set forth below. By requiring such minimum insurance, the County does not and shall not be deemed or construed to have assessed the risks that may be applicable to Grant Recipient, or any Contractor under this Agreement, or in any way limit the County's potential recovery to insurance limits required hereunder. To the contrary, this Agreement's insurance requirements may not in any way be construed as limiting any potential liability to the County or the County's potential recovery from Grant Recipient. Grant Recipient and any Contractor shall assess their own risks and if they deem appropriate and/or prudent, maintain greater limits and/or broader coverage.
- 1.2. Each insurance policy shall be written on an "occurrence" basis.

2. Evidence and Cancellation of Insurance

- 2.1. Within thirty (30) calendar days of Effective Date and upon request by the County, Grant Recipient shall furnish the County certificates of insurance and endorsements certifying the issuance of all insurance required by this Agreement which is to be maintained for the entire term of the Agreement or as otherwise stated in this Exhibit. All evidence of insurance shall be signed by a properly authorized officer, agent, general agent, or qualified representative to the insurer(s), shall certify the name of the insured(s), the type and amount of insurance, the location and operations to which the insurance applies, the inception and expiration dates, shall specify the form numbers of any endorsements issued to satisfy this Agreement's insurance requirements, and shall state that the County shall receive notice at least thirty (30) calendar days prior to the Effective Date of any cancellation, lapse, or material change in the policy(s). Certificate Holder: King County Parks, 201 S. Jackson Street, Suite 5702, Seattle, WA 98104. Electronic evidence of insurance documents may be emailed to: ParksGrants@kingcounty.gov.
The County reserves the right to require complete, certified copies of all required insurance policies, including all endorsements and riders, which may be redacted of any confidential or proprietary information. Grant Recipient shall deliver such policies to the County within five (5) business days of County's request.

3. Minimum Scope and Limits of Insurance

- 3.1. Grant Recipient shall maintain the following types of insurance and minimum insurance limits:
 - 3.1.1. Commercial General Liability: \$1,000,000 per occurrence and \$2,000,000 in the aggregate for bodily injury, personal and advertising injury, and property damage. Coverage shall be at least as broad as that afforded under ISO form number CG 00 01. Such insurance shall include coverage for, but not limited to, ongoing operations, premises liability, products and completed operations, and contractual liability. Limits may be satisfied by a single primary policy or by a combination of separate primary and umbrella or excess liability policies, provided that coverage under the latter shall

be at least as broad as that afforded under the primary policy and satisfy all other requirements applicable to liability insurance including, but not limited to, additional insured status for the County.

- a. If the Grant Recipient will be using grant funds for youth sports activities, the Commercial General Liability policy shall not contain a CTE/Concussion exclusion.
- b. If the Grant Recipient or its Contractor(s) will be working directly with youth, Sexual Misconduct Liability coverage with minimum limits of \$1,000,000 per occurrence and in the aggregate shall be provided. Such coverage may be included under a Commercial General Liability policy or provided by a standalone policy.

3.1.2. Automobile Liability: If transportation will be provided, Grant Recipient and/or its transportation Contractor(s) will maintain Automobile Liability insurance with a minimum \$1,000,000 combined single limit per accident for bodily injury and property damage. Coverage shall be at least as broad as that afforded under ISO form number CA 00 01 covering **BUSINESS AUTO COVERAGE**, symbol 1 “any auto”; or the combination of symbols 2, 8, and 9. Limits may be satisfied by a single primary policy or by a combination of separate primary and umbrella or excess liability policies, provided that coverage under the latter shall be at least as broad as that afforded under the primary policy.

3.1.3. Workers Compensation: If Grant Recipient or its Contractor(s) have employees, then Workers Compensation coverage shall be maintained, as required by the Industrial Insurance Act of the State of Washington, as well as any similar coverage required for this Project by applicable Federal or “Other States” State Law.

3.1.4. Employers Liability or “Stop Gap” coverage: If Grant Recipient or its Contractor(s) have employees, then Employers Liability or “Stop Gap” coverage shall be maintained with a minimum limit of \$1,000,000 each occurrence and shall be at least as broad as the protection provided by the Workers Compensation policy Part 2 (Employers Liability), or, in monopolistic states including but not limited to Washington, the protection provided by the “Stop Gap” endorsement to the commercial general liability policy.

3.1.5. Fidelity and Crime Insurance. If a Fiscal Sponsor is a party to this Agreement, Fiscal Sponsor(s) shall procure and maintain Fidelity and Crime insurance with a minimum limit equal to the grant amount. Coverage shall include ‘Join Loss Payable’ ISO form CR 20 15 10/10 or substantive equivalent; and ‘Provide Required Notice of Cancellation to Another Entity’ ISO form CR 20 17 10/10.

4. Other Insurance Provisions and Requirements

4.1. All insurance policies purchased and maintained by Grant Recipient and any Contractor required in this Agreement shall contain, or be endorsed to contain the following provisions:

- 4.1.1. With respect to all liability policies except Professional Liability (Errors and Omissions) and Workers Compensation:

4.1.1.1. King County, its officials, employees, and agents shall be covered as additional insured for full coverage and policy limits as respects liability arising out of activities performed by or on behalf of the Grant Recipient, its agents, representatives, employees, or Contractor(s) in connection with this Agreement. Additional Insured status shall include products-completed operations CG 20 100 11/85 or its substantive equivalent. The County requires the endorsement(s) to complete the Agreement.

4.1.2. With respect to all liability policies (except Workers Compensation):

4.1.2.1. Coverage shall be primary insurance as respects the County, its officials, employees, and agents. Any insurance and/or self-insurance maintained by the County, its officials, employees, or agents shall not contribute with any of Grant Recipient's, or Contractor(s) insurance or benefit the Grant Recipient, or any Contractor, or their respective insurers in any way.

4.1.2.2. Insurance shall expressly state that it applies separately to each insured and additional insured against whom a claim is made and/or lawsuit is brought, except with respect to the limits of insurer's liability.

5. Deductibles/Self-Insured Retentions

5.1. Any deductible and/or self-insured retention of the policies shall in all instances be the sole responsibility of Grant Recipient or its Contractor, even if no claim has been made or asserted against them.

6. Acceptability of Insurers

6.1. Unless otherwise approved by the County, insurance is to be placed with insurers with an A.M. Best rating of no less than A:VIII.

7. Self-Insurance

7.1. If the Grant Recipient is a governmental entity or municipal corporation, Grant Recipient may maintain a fully funded self-insurance program or participate in an insurance pool for the protection and handling of its liabilities including injuries to persons and damage to property. Further, if Grant Recipient maintains a self-insurance program or participates in an insurance pool, the additional insured requirement shall not apply to the coverage provided by the self-insured program or insurance pool.

8. Contractors

8.1. Grant Recipient shall include all Contractors as insureds under its policies or, alternatively, Grant Recipient must require each of its Contractors to procure and maintain appropriate and reasonable insurance coverage and insurance limits to cover each of the Contractor's liabilities given the scope of work and services being provided herein. Contractor(s) must include the County, its officials, agents, and employees as additional insured for full coverage and policy limits on its Commercial General Liability insurance and, if applicable,

its Automobile Liability insurance. Upon request by the County, and within five (5) business days, Grant Recipient must provide evidence of each Contractor(s) insurance coverage, including endorsements.



City of Kenmore, Washington

Memorandum

Date: May 11, 2026
To: Teri Killgore, City Manager
From: Richard Sawyer, Environmental Services Director
Regarding: Log Boom Park Sampling and Monitoring

Purpose: Provide a summary of the water quality and sediment testing conducted at Log Boom Park in 2012/2013 and ongoing monitoring conducted annually during the summer season.

Background:

In 2012, with financial support from Washington State Department of Ecology, the City hired the consulting firm Anchor QEA to develop a sediment and water quality sampling plan to 1) support sediment characterization required by the Army Corps of Engineers to conduct dredging of the Kenmore Navigation Channel and 2) conduct additional sampling to evaluate the potential presence of chemicals of concern along the shoreline and 3) provide information to Washington State Department of Health to prepare a Health Consultation report for public health, safety, and environmental concerns in human-use areas, including Log Boom Park. The sampling was conducted in November 2012 and included six locations along the shore of Log Boom Park (see sampling locations below). The full sampling plan included shoreline sites stretching from Lake Forest Park to the boat launch located on Sammamish River.



18120 68th Ave NE, Kenmore, WA 98028

Office: (425) 398-8900 · cityhall@kenmorewa.gov · www.kenmorewa.gov

Sediment samples HT-01 through HT-06 were collected with a hand trowel in nearshore areas along Log Boom Park (down to about 10cm) which includes the most biologically active portion of the sediment exposed to human contact. Sediment samples were analyzed for metals, organometallic compounds, polycyclic Aromatic Hydrocarbons, Chlorinated Hydrocarbons, Phthalates, Phenols, pesticides, PCB Aroclors, and Dioxin Furans. Water quality samples were also collected at sampling sites HT-01 through HT-04. Water quality samples were analyzed for total metals, dissolved metals, SVOCs, polycyclic aromatic hydrocarbons, pentachlorophenol, total suspended solids, total dissolved solids, and hardness.

Anchor QEA provided a report to the City in March 2013 with the sampling results (attached). The report was provided to the Army Corps of Engineers, Department of Ecology and Department of Health. In brief, samples at Log Boom Park exceeded freshwater screening levels for bis(2ethylhexyl)phthalate in HT-04 and for copper in HT-05. No other samples exceeded screening levels, including dioxin furans and PCBs.

Washington State Department of Health utilized Anchor QEA's data to produce their own report in June 2013 regarding the public health of the sediment and water at Log Boom Park. They provided the following two conclusions, 1) Touching, breathing, or accidentally eating sediment from public access areas, as well as areas with limited public access, is not expected to harm people's health, and 2) Swimming or accidentally ingesting groundwater discharging from the KIP site or surface water tested by the City of Kenmore near Log Boom Park is not expected to harm people's health. Washington State Department of Health's full report is attached.

Seasonal Monitoring at Log Boom Park

Staff monitor Log Boom Park for bacteria levels, temperature and look for the presence of toxic algae weekly from May to October each year when potential human use is highest. The city models its seasonal monitoring program after King County's lake swimming beach monitoring program ([website link](#)) and follows the same sampling and reporting protocols as used on all Lake Washington beaches. Water is sampled at three locations at Log Boom Park each week and results are posted on the City's website. If bacteria concentrations reach levels of concern, staff post appropriate signage at the park and online until concentrations are acceptable.

Staff recently reached out to King County's swimming beach monitoring manager and received confirmation that King County does not conduct routine sediment testing. They further explained that if toxins were present in sediment they pose a low risk to human health via direct contact and that it is more worrisome when toxins bioaccumulate in fish and shellfish and then get eaten by people.

City staff have been contacted by the State's Department of Health's Toxicologist to coordinate placement of fish advisory signs at Log Boom Park and Washington State Fish and Wildlife's boat launch located on Sammamish River to provide information regarding toxin bioaccumulation and provide limits on consumption. City staff anticipate having the updated signage posted by June, 2026, which will be added to the current signage regarding the identification and concerns of toxic algae (also provided by Washington State Department of Health).

Attachments: Sampling and Analysis Results Memorandum: Kenmore Sediment and Water Characterization (Anchor QEA, March 2013)

Health Consultation: Kenmore Area of Lake Washington and
Sammamish River Evaluation of Sediment, Surface Water, and
Groundwater King County, Washington (Washington State
Department of Health, June 2013)



SAMPLING AND ANALYSIS RESULTS MEMORANDUM KENMORE SEDIMENT AND WATER CHARACTERIZATION

Prepared for

Washington State Department of Ecology
Dredged Material Management Program
Washington State Department of Health

On Behalf of

City of Kenmore
18120 68th Avenue NE
Kenmore, Washington 98028

Prepared by

Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, Washington 98101

March 2013

SAMPLING AND ANALYSIS RESULTS MEMORANDUM

KENMORE SEDIMENT AND WATER CHARACTERIZATION

Prepared for

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Dredged Material Management Program
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On Behalf of

City of Kenmore
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Prepared by

Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, Washington 98101

March 2013

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LIST OF ACRONYMS AND ABBREVIATIONS

Abbreviation	Definition
°C	degrees Celsius
µg/kg	micrograms per kilogram
ARI	Analytical Resources, Inc.
BEACH	Beach Environmental Assessment, Communication and Health
City	City of Kenmore
cm	centimeter
DGPS	differential global positioning system
dioxin/furan TEQ	total dioxin and furan toxic equivalency
DMMO	Dredged Material Management Office
DMMP	Dredged Material Management Program
DO	dissolved oxygen
DOH	Washington State Department of Health
DVR	Data Validation Report
Ecology	Washington State Department of Ecology
J	sample results qualified as “estimated”
KIP	Kenmore Industrial Park
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LDC	Laboratory Data Consultants
ML	DMMP Maximum Level
MS	matrix spike
MSD	matrix spike duplicate
MTCA	Model Toxics Control Act
ng/kg	nanograms per kilogram or parts per trillion
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCP	pentachlorophenol
PSEP	Puget Sound Estuary Program
QA	quality assurance
Results Memorandum	Sampling and Analysis Results Memorandum
SAP	<i>Sampling and Analysis Plan; Kenmore Area Sediment and Water Characterization</i>

Abbreviation	Definition
SAPA	<i>Sediment Sampling Analysis Plan Appendix</i>
SL	DMMP Screening Level
SL1	interim freshwater Screening Level 1
SL2	interim freshwater Screening Level 2
SQV	Sediment Quality Value
SVOC	Semi-volatile organic compound
TBT	tributyltin
TEQ	toxic equivalency
TOC	total organic carbon
TSS	total suspended solids
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
WDFW	Washington Department of Fish and Wildlife

1 INTRODUCTION

This Sampling and Analysis Results Memorandum (Results Memorandum) summarizes the results of the sediment and water characterization conducted in the northeastern portion of Lake Washington in and near the City of Kenmore (City). Anchor QEA, LLC (Anchor QEA), prepared this memorandum on behalf of the City, in partnership with the Washington State Department of Ecology (Ecology), and in accordance with the procedures described in the Ecology-approved *Sampling and Analysis Plan; Kenmore Area Sediment and Water Characterization* (SAP) (Anchor QEA 2012).

The characterization effort supports a number of objectives for the City and Ecology. First, the characterization is intended to support the City's ongoing work with the U.S. Army Corps of Engineers (USACE) to support a request for funding in the USACE budget for maintenance dredging of the federal Kenmore Navigation Channel (Figure 1). Second, with financial assistance from Ecology's Clean Sites Initiative fund, the City and Ecology are conducting additional characterization activities to evaluate the potential presence of chemicals of concern along the shoreline. The characterization has been designed to support Ecology's Model Toxics Control Act (MTCA) cleanup action requirements, as well as the Health Consultations to be developed by Washington State Department of Health (DOH). Health Consultations are anticipated to be prepared by DOH for public health, safety, and environmental concerns in human-use areas along Log Boom Park, at the Washington Department of Fish and Wildlife (WDFW) public motor boat launch along the Sammamish River, and Kenmore Industrial Park (KIP; also known as Lakepointe). Additionally, at the request of the City of Lake Forest Park, two sediment samples were collected along the northwestern shoreline of Lake Washington adjacent to Lyon Creek Park.



Figure 1
 Sample Locations
 Sampling and Analysis Results Memorandum
 Kenmore Sediment Characterization
 Page 80 of 256

1.1 Kenmore Navigation Channel Screening Level Characterization

The Kenmore Navigation Channel (Figure 1) was constructed in 1981, as a USACE project authorized in Section 107 of the 1960 River and Harbors Act, to a depth of 15 feet below lake level. The Kenmore Navigation Channel is approximately 100 to 120 feet wide and 2,900 feet long, and primarily serves barge and other marine traffic for industrial and commercial uses. The Kenmore Navigation Channel was last sampled in 1996 for dredge characterization, dredged in 1997, and last surveyed in 2010, which showed areas shallower than 15 feet below lake level. The most recent maintenance dredging of the Kenmore Navigation Channel was prior to the City's 1998 incorporation. Currently, King County is the Local Sponsor Authority for the Kenmore Navigation Channel and the Sammamish River Small Boat Navigation Channel. The City, King County, and the USACE are presently exploring the possible transfer of the Local Sponsor Authority for the Kenmore Navigation Channel to the City. The USACE estimates that maintenance dredging would require removal of 31,700 cubic yards of sediment within the channel.

The Dredged Material Management Office (DMMO) at the USACE has indicated that a screening level characterization will provide information about potential options for disposal of dredged sediment. According to Dredged Material Management Program (DMMP) protocols, a full sediment characterization would provide information to determine if sediment is suitable for unconfined open-water disposal. However, these characterization results are only valid for 2 years in areas ranked "High" by DMMP, which includes the Kenmore Navigation Channel. Acquisition of funding and completion of maintenance dredging is not likely to occur within 2 years of the commencement date of this project. Given the timing of the maintenance dredging, the DMMO agreed that it made sense for the City to conduct a screening level assessment to provide information to support pursuing federal funding for maintenance dredging. The DMMO also agreed that the timing for a full DMMP characterization effort should be within 2 years of the anticipated maintenance dredging event.

The owners of the North Lake Marina are also participating parties in the sediment characterization efforts to assess the options for sediment disposal in the event that maintenance dredging is conducted within the marina. The marina owners are interested in privately funding the dredging of the marina, in conjunction with the dredging of the

Kenmore Navigation Channel, to save money and share costs (e.g., dredge equipment mobilization fees) with the USACE.

Any future proposed dredging plans for Kenmore Navigation Channel, Harbour Village Marina, or North Lake Marina will be determined by each party based on navigational needs, cost, and other considerations. A summary of previous sediment characterization and dredging is provided in the SAP (Anchor QEA 2012).

1.2 Additional Nearshore Sediment and Surface Water Characterization

The City and Ecology requested additional characterization activities to evaluate the current condition of nearshore sediment and surface water in the Kenmore area waterfront. The purpose of the additional characterization activities is to determine sediment and water quality and possible health and environmental risks. This information will provide a better understand whether potential contamination is present in sediment and surface water. The surface water and sediment results are intended to be used by Ecology for characterization activities to evaluate the presence and concentration of chemicals and possible contamination in the lake and river waterfront areas, as well as to continue the MTCA evaluation of nearshore sediments. The results will also be used to support the Health Consultations in the vicinity of Log Boom Park and adjacent to KIP that will be developed by DOH. Ecology will determine if additional testing will be required to further characterize potential sources of contamination.

1.3 Sediment Investigation Overview

This section provides a brief overview of the sediment investigation conducted in November 2012. Specific sampling and analysis protocols for the sediment sampling activities, sample location and frequency, equipment, procedures to be used during the sampling, and sample handling and analysis are described in the SAP (Anchor QEA 2012).

Sample collection and analyses were performed and prepared consistent with the multi-agency reviewed and approved SAP (Anchor QEA 2012). The SAP was developed in accordance with the 2008 DMMP User's Manual (DMMO 2009) and Ecology's *Sediment Sampling and Analysis Plan Appendix* (Ecology 2008). All sample handling and analyses

followed the most recent Puget Sound Estuary Program (PSEP) protocols for collecting and handling sediment and water samples (PSEP 1986, 1997a, 1997b, 1997c) and the 2008 DMMP User's Manual (including the 2009 update) and Clarification Papers and updates (DMMO 2009; Hoffman 1998; Kendall 2001; USACE 2010; Inouye and Fox 2011).

Between November 6 and November 8, 2012, Anchor QEA collected 30 sediment samples (including two field duplicates) from 28 locations. Ecology staff supported sample collection on November 6 and 7, 2012. Three water samples (including one duplicate) were collected at Log Boom Park, and one background water sample was collected offshore in Lake Washington on November 7, 2012. Sediment collection information and sample descriptions are provided in Table 1. Surface water collection information is provided in Table 2. Sediment and water sampling locations are shown in Figure 1.

Sediment samples for the DMMP screening level characterization were collected on November 8, 2012, and included samples SG-02 and SG-03 from North Lake Marina and SG-04 through SG-09 from the Kenmore Navigation Channel. These sediment samples were analyzed for the full DMMP analyte list (DMMO 2010, 2011) for the screening level characterization, including metals, semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), dioxins and furans, and tributyltin (TBT) in porewater, as well as total organic carbon (TOC), grain size, and moisture content. The chemistry data were compared to the DMMP interpretive criteria for marine open-water disposal (at the marine DMMP disposal sites) in Section 3.2.1 (DMMO 2010, 2011). Results are presented in Table 3.

Sediment samples HT-01 through HT-11 were collected with a hand trowel in nearshore areas at Log Boom Park, Tributary 0056, the WDFW boat launch, and Lyon Creek Park on November 7, 2012. Sediment samples SG-01, and SG-10 through SG-17 were collected using a grab sampler deployed from a sampling vessel on November 9, 2012, from the Harbour Village Marina, north and offshore of KIP, and the lower reaches of the Sammamish River. These samples were tested in accordance with the *Sediment Management Standards* (Ecology 1995) for metals, SVOCs, pesticides, PCBs, and dioxin and furans, as well as physical parameters, including TOC, grain size, and moisture content. TBT analysis was also conducted on bulk sediment at these locations. Data from these samples were compared to

the interim freshwater Sediment Quality Values (SQVs) in Section 3.22. These interim freshwater SQVs were developed by Ecology in 2003 (Ecology 2003) and adopted by the Regional Sediment Evaluation Team¹ in 2006 (USACE et al. 2006). The data and screening results are presented in Table 4.

Surface water samples, HT-01 and HT-04, and the background sample, WS-10, were collected on November 7, 2012. Water quality field parameters were measured on site (Table 2). Water samples were analyzed for total metals, dissolved metals, SVOCs, polycyclic aromatic hydrocarbons (PAHs), pentachlorophenol (PCP), total suspended solids (TSS), total dissolved solids, and hardness. The surface water results are summarized in Section 3.3. Surface water data are presented in Table 5.

¹ Consists of the USACE Northwestern Division (Portland, Seattle and Walla Walla Districts), National Marine Fisheries Service, U. S. Fish and Wildlife Service, U.S. Environmental Protection Agency Region 10, Oregon Department of Environmental Quality, Ecology, Washington Department of Natural Resources, and the Idaho Department of Environmental Quality.

2 SAMPLE COLLECTION AND HANDLING

This section provides an overview of the sample collection and handling procedures. The methods and procedures described herein were followed by Anchor QEA and their subcontractors during the November 2012 data collection activities. Detailed descriptions are found in the SAP (Anchor QEA 2012).

2.1 Sediment Collection Procedures

Sediment samples SG-02 through SG-17 were collected from the Kenmore Navigation Channel and other submerged areas (Harbour Village Marina, North Lake Marina, etc.) using a power grab sampler from a vessel equipped with differential global positioning system (DGPS) and a depth sounder. Samples from the navigation channel and in North Lake Marina were collected to the maximum penetration possible (target 25 centimeter [cm] below mudline) to better represent deeper sediment that could be removed during dredging. Samples from other submerged areas were collected from the top 10 cm to represent the biologically active zone, consistent with guidance in Ecology's *Sediment Sampling and Analysis Plan Appendix* (SAPA; Ecology 2008). Prior to deployment at each station, the power grab sampler was decontaminated, and upon retrieval, samples were evaluated for compliance with the acceptance criteria described in the SAP (Anchor QEA 2012). If an acceptable sample was collected, sediment from the appropriate interval was collected and homogenized in a stainless steel bowl prior to being placed into sample containers.

Sediment samples HT-01 through HT-11 were collected from Log Boom Park, Tributary 0056, the WDFW boat launch, and Lyon Creek Park using a hand trowel from shallow submerged sediment areas. Sediments were collected as close as possible to the target coordinates in order to collect fine-grained material (to the extent available) that represent areas where people are likely to come in contact with the sediment. Sample HT-10 at Lake Forest Park was collected from an exposed area due to the low lake level. During collection with the hand trowel, care was taken to prevent resuspension of sediment prior to and during sampling. Hand collected samples were homogenized in a stainless steel bowl prior to being placed into sample containers.

Sediment collection information recorded in the field, including water depth, recovery depth, coordinates, and sample interval, are shown in Table 1. Sediment samples were placed in a cooler with ice and delivered to ARI within 24 hours of collection. Chain-of-custody forms and daily logs are provided in Appendix A.

2.2 Surface Water Collection Procedures

Water quality parameters were measured in the field using a multi-probe water quality meter (e.g., YSI) prior to collecting a water sample. The water quality meter was lowered approximately 1 foot below the surface and was allowed to equilibrate before taking measurements of turbidity, conductivity, temperature, dissolved oxygen, and pH. Water quality field parameters, including temperature, pH, conductivity, turbidity, and dissolved oxygen (DO), that were recorded in the field are provided in Table 2. Chain-of-custody forms are provided in Appendix A.

Water samples were collected according to Ecology's Standard Operating Procedure guidance (Ecology 2006), which is consistent with the protocols of the Beach Environmental Assessment, Communication, and Health (BEACH) program (Schneider 2004). Field personnel waded into knee-deep water (approximately 2.5 feet) and collected a water sample by hand with a dipper attached to an extension rod. Samples were collected to a depth of at least 6 inches below the surface (Ecology 2006). The background location sample was collected from the boat on the same day as the shoreline water samples, using the same methods. Water samples were placed in a cooler with ice and were shipped or delivered to the laboratory within 24 hours of collection.

2.3 Deviation from the Sampling and Analysis Plan

Deviations from the SAP (Anchor QEA 2012) were limited to the movement of several target sample stations. These changes are summarized below:

- Station HT-07 was moved upstream, above the weir within tributary 0056, as directed by Maura O'Brien (Ecology).
- Station SG-01 was moved 85 feet to the northwest of the target location to locate the sample within the middle of the navigation channel.

- Station SG-04 was moved 50 feet to the northeast of the target location due to refusal encountered at the target location.
- Station SG-16 was moved 50 feet to the southwest of the target location at the request of Maura O'Brien (Ecology) to be closer to the former KIP outfall.

3 CHEMICAL TESTING RESULTS

Chemical analysis requirements for sediment and surface water samples are summarized in the Ecology-approved SAP (Anchor QEA 2012). As described in the SAP, all chemical analyses were performed by Analytical Resources, Inc. (ARI), in Tukwila, Washington. All samples were preserved in accordance with the analytical method and stored at a temperature of 4 degrees Celsius (°C).

3.1 Summary of Data Quality/Validation Results

The following section describes the assessment and validation of analytical data reported by ARI. Complete data packages are presented in Appendix B. Data validation was performed by Anchor QEA and Laboratory Data Consultants (LDC). Validation reports are presented in Appendix C.

Chemical data were validated in accordance with the analytical methods and the following U.S. Environmental Protection Agency (USEPA) guidance:

- *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA 2004)
- *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA 1999)
- *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review* (USEPA 2008)

As described in the SAP, Anchor QEA performed a Stage 2A level (USEPA 2009) data quality review (equivalent to a QA1 review), in accordance with USEPA National Functional Guidelines (Anchor QEA 2012; USEPA 2004, 2008) on all data except for dioxin and furans. Dioxin and furan data were validated at a Stage 4 level (USEPA 2009) by LDC, a third party validator, using the DQOs outlined by the DMMO (2010) and the SAPA (Ecology 2008). The data were validated in accordance with the project-specific DQOs, analytical method criteria, and the laboratory's internal performance standards based on their Standard Operating Procedures.

Anchor QEA determined that accuracy was acceptable as demonstrated by the surrogate, laboratory control sample (LCS)/laboratory control sample duplicate (LCSD), and matrix spike (MS)/matrix spike duplicate (MSD) percent recovery values, with the exceptions noted in the Data Validation Report (DVR; Appendix C). Precision was also acceptable as demonstrated by the laboratory duplicates, MS/MSD, and LCS/LCSD relative percent difference values, with the exceptions noted in the DVR (Appendix C). Most data were deemed acceptable as reported; all other data are acceptable as qualified.

LDC determined that dioxin and furan analysis was conducted within all specifications of the methods, and no results were rejected. Sample results were qualified as appropriate, based on the results of the LDC validation report (Appendix C). Sample results qualified as “estimated” (J) are usable as qualified. Based on the Stage 4 data validation, results are considered valid and useable for all purposes.

3.2 Sediment Chemistry Results

The remainder of this section summarizes the results of the chemical testing of sediment samples and the comparison of the data to DMMP interpretive criteria (DMMO 2010, 2011) or the interim freshwater SQVs (Ecology 2003; USACE et al. 2006). Ecology is currently in the process of amending the freshwater SQVs. Once they are approved and published, the SQVs will be applied to these results by Ecology. Sediment data results are presented in Tables 3 and 4.

3.2.1 DMMP Screening Level Characterization

This section summarizes the comparison of chemical results from the North Lake Marina and Kenmore Navigation Channel samples with the DMMP interpretive criteria for marine open-water disposal sites (DMMO 2010, 2011). The results for the full DMMP analyte list for sediment samples from stations SG-02 to SG-09 are presented in Table 3 and are summarized below.

In North Lake Marina, four chemicals exceeded one or two DMMP screening levels. The concentrations of benzoic acid, benzyl alcohol, and total dioxin and furan toxic equivalency (dioxin/furan TEQ) exceeded the DMMP Screening Level (SL) in both samples. Benzoic acid

was also above the DMMP Maximum Level (ML) in both samples. One sample exceeded the SL for TBT. Dioxin/furan was 20.3 and 37.0 nanograms per kilogram or parts per trillion (ng/kg) toxic equivalency (TEQ) for samples SG-02 and SG-03, respectively, which is above the ML.

In Kenmore Navigation Channel three chemicals exceeded DMMP screening levels. Specifically, benzyl alcohol exceeded the SL at five of the six locations. Two of those locations exceeded the ML for benzoic acid. Dioxin/furan ranged from 1.5 to 8.4 ng/kg TEQ and was above the SL in four of the six locations.

In general, chlorinated hydrocarbons and pesticides were not detected in any of the samples, and the frequency of detection of phthalates, phenols, and PCB Aroclors was relatively low. Concentrations of PAHs and metals were below the DMMP criteria.

These preliminary screening results will inform future dredge planning. A full dredge material characterization will be required to evaluate for suitability of open-water disposal. This testing will be based on collection and testing of sediment cores and may include bioassay testing, if required.

3.2.2 Sediment Comparison to the Interim Freshwater Screening Levels

This section summarizes the results of the comparison of sediment data with the interim freshwater SQVs (Ecology 2003; USACE et al. 2006). Table 4 presents the results for shoreline sediment samples from stations HT-01 through HT-11, grab samples from stations SG-01 and SG-10 through SG-17, as well as the DMMP screening level characterization samples from stations SG-02 through SG-09, compared to the SQVs².

3.2.2.1 Shoreline Sediment Samples

Shoreline sediment samples were collected by hand trowel from 11 stations at Log Boom Park (five locations), Tributary 0056 (two locations), the WDFW boat launch (two locations), and at Lyon Creek Park (two locations). Concentrations were measured above SQVs for copper, bis(2ethylhexyl)phthalate, and dimethyl phthalate in individual samples. PAHs were detected

² SQVs are established for most parameters tested as part of this investigation, but not all.

at all of the shoreline stations, but were below the freshwater SQVs. The frequency of detection was low for chlorinated hydrocarbons, phenols, the miscellaneous extractables, and PCB Aroclors. Pesticides were not detected, where analyzed. Specific results for each location are described below.

3.2.2.1.1 Log Boom Park

In the five samples collected at Log Boom Park, concentrations exceeded the interim freshwater Screening Level 2 (SL2) for bis(2ethylhexyl)phthalate in HT-04 and for the interim freshwater Screening Level 1 (SL1) for copper in HT-05. No other concentrations exceeded SQVs in any other Log Boom Park samples. PCBs were non-detect in samples HT-01, HT-02, HG-03, and HT-05, and were below SQVs in HT-04. The dioxin/furan concentration was highest in sample HT-04, at 7.9 ng/kg TEQ, with samples HT-01, HT-02, HT-03, and HT-05 below 2.17 ng/kg TEQ.

3.2.2.1.2 Tributary 0056

Of the two samples collected at Tributary 0056, located north of Log Boom Park, no concentrations exceeded SQVs. PCBs were non-detect in each sample. The dioxin/furan concentration was less than 1.33 ng/kg TEQ in each sample.

3.2.2.1.3 WDFW Boat Launch

Of the two samples collected at the WDFW boat launch, dimethyl phthalate exceeded SQVs in both samples (above SL1 for HT-08 and SL2 for HT-09). PCBs were non-detect, and the dioxin/furan concentration was less than 1.35 ng/kg TEQ in each sample.

3.2.2.1.4 Lyon Creek Park

Of the two samples collected at Lyon Creek Park, no concentrations exceeded SQVs. PCBs were non-detect, and the dioxin/furan concentration was less than 0.52 ng/kg TEQ in each sample.

3.2.2.2 *Surface Sediment Grab Samples*

Surface sediment samples (0 to 10 cm) were collected at nine stations from the Sammamish River, Harbour Village Marina, north of KIP, and KIP shoreline. Concentrations were measured above SQVs for lead, zinc, bis(2ethylhexyl)phthalate, di-n-octyl phthalate, and benzo(b,j,k)fluoranthenes in individual samples. The frequency of detection was low for miscellaneous extractables, pesticides, and PCB Aroclors. Chlorinated hydrocarbons were not detected. Specific results for each location are described below.

3.2.2.2.1 *Sammamish River*

Three samples were collected from the lower reaches of the Sammamish River, two of which are located adjacent to KIP. No concentrations exceeded SQVs in sample locations SG-01, SG-16, and SG-17. PCBs were non-detect, and the dioxin/furan concentration ranged from 0.35 to 2.30 ng/kg TEQ.

3.2.2.2.2 *Harbour Village Marina*

Of the four samples and a duplicate sample collected at the Harbour Village Marina, five chemicals exceeded one or more screening levels: copper, zinc, two phthalates, and dioxin/furans. The SL1 was exceeded for lead and zinc in sample SG-11, and for zinc in SG-12 and SG-13. Bis(2ethylhexyl) phthalate exceeded SL2 in each sample, and di-n-octyl phthalate exceeded SL2 in SG-11 and SG-13. PCBs and pesticides were low or non-detect in each sample. The dioxin/furan concentration was lowest in sample SG-10 (6.6 ng/kg TEQ), but higher in sample SG-12 (26.6 ng/kg TEQ), SG-13 (50 ng/kg TEQ and 19 ng/kg TEQ in duplicate samples), and SG-11 (71 ng/kg TEQ).

3.2.2.2.3 *North of Kenmore Industrial Park*

One sample was collected north of KIP, beyond the end of the navigation channel. Copper, zinc, benzo(b,j,k)fluoranthenes, and bis(2ethylhexyl)phthalate exceeded the SL1 in sample SG-14. PCBs were detected slightly above the detection limit (20 micrograms per kilogram [$\mu\text{g/kg}$]). The dioxin/furan concentration was 10.1 ng/kg TEQ.

3.2.2.2.4 Kenmore Industrial Park Shoreline

Three samples were collected along KIP: one along the west shoreline and two along the south side. No concentrations exceeded SQVs in samples SG-15, SG-16, or SG-17 collected along the KIP shoreline. PCBs were non-detect, and the dioxin/furan concentration was below 2.3 ng/kg TEQ.

3.2.2.3 DMMP Screening Level Characterization Samples

Results of DMMP screening level sediment samples are presented in Section 3.2.1 and the DMMP interpretive criteria in Table 3. These results are compared to SQVs in Table 4.

Two samples were collected in North Lake Marina, and concentrations of cadmium, chromium, and zinc exceeded SL1 in both samples (SG-02 and SG-03). Concentrations exceeded SL2 for bis(2ethylhexyl)phthalate in both samples, for di-n-octyl phthalate in SG-03, and for total PCBs in SG-02. Dioxin/furan concentrations were 20.3 and 37 ng/kg TEQ.

In the Kenmore Navigation Channel, six samples were collected for DMMP characterization from 20 to 25 cm depth. Five chemicals were detected above one or more screening levels. Zinc exceeded SL1 in samples SG-05 and SG-06. Bis(2ethylhexyl)phthalate exceeded SL1 in samples SG-05, SG-08, and SG-09 and SL2 in samples SG-06 and SG-07. Di-n-octyl phthalate also exceeded SL1 in sample SG-06. Dioxin/furan concentrations ranged from 1.5 to 8.4 ng/kg TEQ. Concentrations of all other chemicals were below SQV criteria.

3.3 Surface Water Results

Chemical concentrations in surface water samples were low in the two Log Boom Park samples and in the reference sample. Results for PAHs, chlorinated hydrocarbons, phthalates, and miscellaneous extractables were all non-detect. Chemical concentrations in the Log Boom Park samples were similar to the reference sample concentrations.

4 CONCLUSIONS

The conclusions of the comparison of the sediment data to the DMMP interpretive criteria (DMMO 2010, 2011) or the interim freshwater SQVs (Ecology 2003; USACE et al. 2006) are summarized below.

4.1 DMMP Screening Level Characterization Samples

4.1.1 *Kenmore Navigation Channel*

Concentrations of benzoic acid and benzyl alcohol were above DMMP criteria for marine open water disposal. However, as allowed according to DMMP guidance, bioassay testing could be conducted on site sediment as part of a full DMMP characterization to determine if dredged sediment is suitable for open-water disposal.

The dioxin/furan TEQ exceeded the DMMP criteria in some samples. However, suitability for open-water disposal would be determined based on the volume-weighted average of dredged sediment using data collected as part of a full DMMP characterization.

A full DMMP characterization would be necessary to determine suitability for marine open-water disposal closer to when dredging would occur.

4.1.2 *North Lake Marina*

Concentrations of benzoic acid and benzyl alcohol were above DMMP criteria. However, as allowed according to DMMP guidance, bioassay testing could be conducted on site sediment as part of a full DMMP characterization to determine if dredged sediment is suitable for open-water disposal.

The dioxin/furan TEQ exceeded the ML DMMP criteria in both samples, which could influence suitability of open-water disposal, pending completion of a full DMMP characterization.

A full DMMP characterization would be necessary to determine suitability for open-water disposal closer to when dredging would occur.

4.2 Shoreline Areas

4.2.1 Log Boom Park

Sediment concentrations were below all SQVs in most samples, with bis(2ethylhexyl)phthalate above SL2 in HT-04 and copper above SL1 in HT-05. Water concentrations were similar to background concentrations. These results will be evaluated as part of future work to be conducted by DOH to develop a health consultation.

4.2.2 Kenmore Industrial Park

No concentrations exceeded SQVs along both the Lake Washington and the Sammamish River KIP shorelines. PCBs were non-detect, and the dioxin/furan concentration was below 2.3 ng/kg TEQ. These results will be evaluated as part of future work to be conducted by DOH to develop a health consultation.

4.3 Other Areas

Concentrations exceeded SQVs for total PCBs, benzo(b,j,k)fluoranthenes, bis(2ethylhexyl)phthalate, di-n-octyl phthalate, cadmium, copper, zinc, at one or more locations at Harbour Village Marina, the WDFW boat launch, and north of KIP. Dioxin/furan concentrations were higher at Harbour Village Marina and North Lake Marina than testing results from other areas, which will be evaluated by Ecology along with other results to determine next steps for further evaluation, if needed.

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TABLES

Table 1
Sediment Grab Observation Summary

Station ID	Date Collected	Water Depth (feet)	Recovery Depth (cm)	Coordinates		Sample Interval (cm)	Sediment Observations					Grab Quality Notes, Number of Attempts
				Northing	Easting		Sediment Type	Biota	Organic Matter/Debris	Odor	Sheen	
HT-01	11/6/2012	0.5	10	279602	1288090	0-10	Gravelly SAND	Trace shells	Trace surface organic matter	None	None	Hand collected
HT-02	11/6/2012	0.8	10	279590	1288199	0-10	Fine-SAND, trace silt	Trace shells	Trace organic matter, with woody debris streaking	None	None	Hand collected
HT-03	11/6/2012	0.8	10	279505	1288473	0-10	Silty fine-SAND	None	Woody streak at 2 inches	Slight H ₂ S	None	Hand collected
HT-04	11/6/2012	0.5	10	279422	1288684	0-10	Clayey SILT	None	Substantial loose woody debris	None	None	Hand collected
HT-05	11/6/2012	1 -1.5	10	279265	1288694	0-10	Gravelly SAND	Trace clams and worms	Trace woody debris	None	None	Hand collected
HT-06	11/6/2012	0.2	10	279241	1288812	0-10	Silty fine-SAND with trace clay	None	Trace aquatic plant roots and leaves and woody debris	None	None	Hand collected
HT-07	11/6/2012	0.2	10	279734	1289089	0-10	Pebbly, medium-coarse silty SAND	None	Trace woody debris and organic matter	None	None	Hand collected near edges of stream
HT-08	11/6/2012	0.5	10	278405	1291778	0-10	Gray silty fine-SAND	Trace shells	Trace organic woody debris	None	None	Hand collected
HT-09	11/6/2012	0.5	10	278377	1291935	0-10	Fine-sandy SILT, few pebbles and trace clay	None	None	None	None	Hand collected
HT-10	11/6/2012	Dry	10	277892	1285959	0-10	Gray medium-SAND, trace fines and gravel	Trace shells	None	None	None	Hand collected
HT-11	11/6/2012	1-1.5	10	277815	1286028	0-10	Gray medium-coarse-SAND, with gravel and trace fines	Trace shells	None	None	None	Hand collected
SG-01	11/7/2012	3.0	20.5	277963	1289407	0-10	Gray fine-SAND with trace medium-sand and silt	Trace clams	None	None	None	Good grab, station moved to navigation channel
SG-02	11/8/2012	4.5	22	279179	1289549	0-22	Very soft SILT	40% plant cover	Trace organic matter	None	Trace	First grab accepted
SG-03	11/8/2012	4.6	25	279174	1289661	0-25	Soft SILT, trace fine sand at bottom 5 cm	Trace shells	Trace leaves and sticks	None	Trace	First grab accepted
SG-04	11/8/2012	20.4	20	279139	1290268	0-15	Gravelly SAND to 15 cm with large gravel below	None	Trace organic matter, sticks, roots	None	None	First grab with rocks in jaw, second grab accepted
SG-05	11/8/2012	17.4	23.5	278907	1289917	0-23	Soft SILT, trace fine sand	None	Moderate organic matter	None	None	First grab overpenetrated, second grab accepted
SG-06	11/8/2012	17.7	25	278711	1289558	0-25	Moderately stiff SILT with trace clay	Trace worms	Moderate organic matter, with 20% woody debris in bottom 3 cm	None	None	First grab insufficient recovery, second grab accepted
SG-07	11/8/2012	16.9	27	278254	1289072	0-25	Soft SILT with lenses of sand	None	15% surface wood, High pulp-like organic matter at 20 to 25 cm	None	None	First grab accepted
SG-08	11/8/2012	16.1	26	277764	1288689	0-25	Silty fine-SAND	None	Substantial organics	None	None	First grab accepted
SG-09	11/8/2012	18.4	26.5	277396	1288456	0-25	SILT and trace silty fine-sand	None	Trace organic debris	None	None	First grab accepted
SG-10	11/7/2012	4.6	26	279175	1288815	0-10	Fine sandy SILT with coarse-sand below 10 cm	None	Aquatic plants at surface, moderate arganic matter with streaks of woody debris	None	None	First grab accepted
SG-11	11/7/2012	4.8	28.5	279159	1289048	0-10	Soft SILT	None	Trace macrophytes on surface, trace organic matter	None	Slight	First grab overpenetrated, second grab accepted

Table 1
Sediment Grab Observation Summary

Station ID	Date Collected	Water Depth (feet)	Recovery Depth (cm)	Coordinates		Sample Interval (cm)	Sediment Observations					Grab Quality Notes, Number of Attempts
				Northing	Easting		Sediment Type	Biota	Organic Matter/Debris	Odor	Sheen	
SG-12	11/7/2012	8.1	19	278974	1288780	0-10	Soft SILT	Worms	Moderate organic matter, with lens of woody material	None	None	First grab accepted
SG-13	11/7/2012	8.1	24	278858	1289306	0-10	SILT	None	Trace organics and woody debris	None	None	First grab accepted
SG-14	11/7/2012	17.2	19	279416	1290608	0-10	Slightly sandy SILT	None	Moderate organic matter	None	Slight	First grab accepted
SG-15	11/7/2012	1.9	23	278643	1290067	0-10	Slighty silty fine-SAND	Trace shells and worms	Trace woody debris	None	None	First grab accepted
SG-16	11/7/2012	10.4	21	278308	1290504	0-10	Fine-SAND	None	Trace wood fragments	None	None	First grab accepted
SG-17	11/7/2012	4.4	23.5	278642	1291535	0-10	SILT to 6 cm with soft clay below	Trace clams	Surface with abundant leaves, organic matter	None	None	First grab accepted

Notes:
Predominant sediment type displayed in ALL CAPS.
cm = centimeter
H₂S = hydrogen sulfide
ID = identification

Table 2
Water Quality Sample Collection Summary

Station ID	Location	Date Collected	Time	Water Depth (feet)	Coordinates		Sample Depth (feet)	Field Parameters					Comments
					Northing	Easting		Temperature (°C)	pH	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	
HT-01	Log Boom Park Shoreline	11/7/2012	15:46	1.8	279602	1288090	1	12.5	7.69	0.148	5.78	9.06	Tannin color, moderately turbid
HT-04	Log Boom Park Shoreline	11/7/2012	16:15	2.0	279590	1288199	0.5-1	12.39	7.51	0.142	5.46	8.28	Tannin color, water sample collected from shoreward end of dock
WS-10	Reference	11/7/2012	14:50	9.6	278267	1287851	3	12.68	7.91	0.145	0.78	11.63	Moderately turbid, few floating macrophytes

Notes:

°C = degrees Celsius

DO = dissolved oxygen

ID = identification

mg/L = milligrams per liter

mS/cm = millisiemens per centimeter

NTU = Nephelometric Turbidity Unit

Table 3
Sediment Results Compared to DMMP Criteria from Kenmore Navigation Channel and North Lake Marina

	Location ID			SG-02	SG-03	SG-04	SG-05	SG-06	SG-07	SG-07	SG-08	SG-09
	Location			North Lake Marina		Kenmore Navigation Channel						
	Sample ID			SG-02-S-C-121108	SG-03-S-C-121108	SG-04-S-C-121108	SG-05-S-C-121108	SG-06-S-C-121108	SG-07-S-C-121108	SG-07-S-C-DUP-121108	SG-08-S-C-121108	SG-09-S-C-121108
	Sample Date			11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012
	Sample Interval			0-22 cm	0-25 cm	0-15 cm	0-23 cm	0-25 cm	0-25 cm	0-25 cm	0-25 cm	0-25 cm
	DMMP SL	DMMP BT	DMMP ML									
Conventional Parameters (%)												
Total organic carbon	--	--	--	7.12	6.60	2.73	5.43	4.89	4.95	7.07	3.30	5.22
Total solids	--	--	--	25.7	25.6	80.8	35.0	29.9	33.7	34.3	42.0	35.7
Total volatile solids	--	--	--	13.51	15.15	1.72	11.13	13.89	13.40	14.11	9.10	10.58
Gravel	--	--	--	0.4	11.8	71.4	3.1	0.1 U	0.5	2.6	0.3	0.1
Sand, Very Coarse	--	--	--	6.5	9.2	7.6	2.9	7.4	2.7	2.7	1.5	2.1
Sand, Coarse	--	--	--	5.5	7.2	6.9	5.3	6.6	3.1	2.8	1.5	1.7
Sand, Medium	--	--	--	5.5	7.2	7.6	11.1	6.2	6.3	6.0	3.9	6.9
Sand, Fine	--	--	--	7.2	7.8	2.9	14.3	8.6	24.4	21.9	22.2	15.9
Sand, Very Fine	--	--	--	9.1	10.1	1.0	15.2	15.9	18.9	18.6	21.2	13.4
Fines (silt + clay)	--	--	--	65.8	46.7	2.5	48.1	55.2	44.1	45.4	49.3	59.7
Silt, Coarse	--	--	--	10.0	13.1	--	7.7	8.6	11.0	13.7	13.0	19.7
Silt, Medium	--	--	--	19.3	8.4	--	16.0	15.5	12.1	11.0	13.7	12.9
Silt, Fine	--	--	--	15.2	10.9	--	9.9	12.1	7.9	7.6	8.4	10.9
Silt, Very Fine	--	--	--	11.1	7.0	--	7.1	7.8	5.9	6.1	6.3	7.6
Clay, Coarse	--	--	--	5.6	4.5	--	4.3	6.3	3.8	3.9	3.9	4.7
Clay, Medium	--	--	--	3.2	1.8	--	1.9	3.2	2.5	2.1	2.6	2.6
Clay, Fine	--	--	--	1.4	1.1	--	1.3	1.6	0.9	0.9	1.4	1.3
Metals (mg/kg)												
Antimony	150	--	200	20 U	20 U	6 U	10 U	20 U	10 U	10 U	10 U	10 U
Arsenic	57	507.1	700	20 U	20 U	6 U	10 U	20 U	10 U	10 U	10 U	10 U
Cadmium	5.1	11.3	14	1.3	1.2	0.3	0.7	0.8	0.6	0.6	0.6	0.6
Chromium	260	260	--	56	55	35	43	57	41	44	44	48
Copper	390	1027	1300	92.4	88.1	14.6	35.6	43.6	30	28.7	28	31.1
Lead	450	975	1200	62	42	5	28	31	21	21	21	24
Mercury	0.41	1.5	2.3	0.18	0.1	0.02 U	0.08	0.1	0.11	0.08	0.07	0.08
Nickel	--	--	--	48	45	30	39	46	41	42	40	43
Selenium	--	3	--	2 U	2 U	0.6 U	1 U	2 U	1 U	1 U	1 U	1 U
Silver	6.1	6.1	8.4	1 U	1 U	0.4 U	0.9 U	1 U	0.9 U	0.8 U	0.7 U	0.9 U
Zinc	410	2783	3800	231	267	49	143	164	126	123	113	130
Organometallic Compounds (µg/L)												
Tributyltin (porewater)	0.15	0.15	--	0.67	0.058	0.049	0.008	0.023	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Polycyclic Aromatic Hydrocarbons (µg/kg)												
1-Methylnaphthalene	--	--	--	21	9.8 J	20 U	13 J	20 U	20 U	19 U	9.6 J	20 U
2-Methylnaphthalene	670	--	1900	31	25	20 U	26	14 J	20 U	19 U	19 U	20 U
Acenaphthene	500	--	2000	320	33	14 J	26	17 J	20 U	19 U	19 U	20 U
Acenaphthylene	560	--	1300	22	16 J	20 U	20 U	20 U	20 U	19 U	19 U	20 U
Anthracene	960	--	13000	66	68	26	39	28	18 J	19 U	19 U	20 U
Benzo(a)anthracene	1300	--	5100	210	190	81	110	110	110	52	42	40
Benzo(a)pyrene	1600	--	3600	190	160	62	76	120	63	55	50	45
Benzo(g,h,i)perylene	670	--	3200	170	130	43	63	93	36	41	41	36
Chrysene	1400	--	21000	440	340	110	190	190	140	82	73	72
Dibenzo(a,h)anthracene	230	--	1900	67	55	15 J	21	37	17 J	12 J	11 J	13 J
Fluoranthene	1700	4600	30000	480	410	220	310	290	150	140	130	120
Fluorene	540	--	3600	98	46	14 J	37	28	12 J	9.7 J	19 U	20 U
Indeno(1,2,3-c,d)pyrene	600	--	4400	140	110	39	51	81	33	38	36	33
Naphthalene	2100	--	2400	83	58	20 U	50	38	18 J	25	14 J	24
Phenanthrene	1500	--	21000	170	190	140	180	140	72	68	64	59
Pyrene	2600	11980	16000	590	440	190	300	290	140	130	120	120
Total Benzofluoranthenes (b,j,k) (U = 0)	3200	--	9900	530	420	140	220	300	170	140	120	120
Total LPAH (DMMP) (U = 0)	5200	--	29000	760	410 J	190 J	330	250 J	120 J	103 J	78 J	83

Table 3
Sediment Results Compared to DMMP Criteria from Kenmore Navigation Channel and North Lake Marina

	Location ID			SG-02	SG-03	SG-04	SG-05	SG-06	SG-07	SG-07	SG-08	SG-09
	Location			North Lake Marina		Kenmore Navigation Channel						
	Sample ID			SG-02-S-C-121108	SG-03-S-C-121108	SG-04-S-C-121108	SG-05-S-C-121108	SG-06-S-C-121108	SG-07-S-C-121108	SG-07-S-C-DUP-121108	SG-08-S-C-121108	SG-09-S-C-121108
	Sample Date			11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012
	Sample Interval			0-22 cm	0-25 cm	0-15 cm	0-23 cm	0-25 cm	0-25 cm	0-25 cm	0-25 cm	0-25 cm
	DMMP SL	DMMP BT	DMMP ML									
Total HPAH (DMMP) (U = 0)	12000	--	69000	2820	2260	900 J	1340	1510	860 J	690 J	620 J	600 J
Chlorinated Hydrocarbons (µg/kg)												
1,2,4-Trichlorobenzene	31	--	64	19 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	20 U
1,2-Dichlorobenzene	35	--	110	19 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	20 U
1,3-Dichlorobenzene	--	--	--	19 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	20 U
1,4-Dichlorobenzene	110	--	120	19 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	20 U
Hexachlorobenzene	22	168	230	4.9 U	4.9 U	4.9 U	5.0 U	4.8 U	4.9 U	4.8 U	4.8 U	4.8 U
Hexachloroethane	--	--	--	19 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	20 U
Phthalates (µg/kg)												
Bis(2-ethylhexyl)phthalate	1300	--	8300	680	510	62 U	260	540	330	300	240	240
Butylbenzyl phthalate	63	--	970	32	32	20 U	20 U	57	28	19 U	36	29
Diethyl phthalate	200	--	1200	49 U	38 J	49 U	49 U	58	49 U	48 U	48 U	49 U
Dimethyl phthalate	71	--	1400	28	20 U	20 U	20 U	20 U	20 U	19 U	19 U	20 U
Di-n-butyl phthalate	1400	--	5100	19 U	9.8 J	20 U	20 U	20 U	20 U	12 J	19 U	20 U
Di-n-octyl phthalate	6200	--	6200	19 U	58 J	20 U	22 J	41 J	22 J	19 U	19 U	20 U
Phenols (µg/kg)												
2,4-Dimethylphenol	29	--	210	19 UJ	20 UJ	20 UJ	20 UJ	20 UJ	20 UJ	19 UJ	19 UJ	20 UJ
2-Methylphenol (o-Cresol)	63	--	77	19 U	20 U	20 UJ	20 U	20 U	20 U	19 U	19 U	20 U
4-Methylphenol (p-Cresol)	670	--	3600	74	76	39 U	74	91	54	31 J	22 J	36 J
Pentachlorophenol	400	504	690	190 U	200 U	200 U	200 U	200 U	200 U	190 U	190 U	200 U
Phenol	420	--	1200	19 U	110	20 U	180	80	42	42	19	39
Miscellaneous Extractables (µg/kg)												
Benzoic acid	650	--	760	960	1300	390 U	1300	1100	430	480	300 J	510
Benzyl alcohol	57	--	870	82	130	20 U	160	190	120	100	61	110
Dibenzofuran	540	--	1700	30	35	20 U	28	20 U	20 U	19 U	19 U	20 U
N-Nitrosodiphenylamine	28	--	130	19 U	20 U	20 U	20 U	20 U	20 U	19 U	19 U	20 U
Pesticides (µg/kg)												
4,4'-DDD (p,p'-DDD)	16	--	--	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U
4,4'-DDE (p,p'-DDE)	9	--	--	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U
4,4'-DDT (p,p'-DDT)	12	--	--	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U
Aldrin	9.5	--	--	0.64 U	0.64 U	0.64 U	0.65 U	0.63 U	0.64 U	0.63 U	0.63 U	0.63 U
Chlordane, alpha- (cis-Chlordane)	--	--	--	0.83 U	0.83 U	0.83 U	0.84 U	0.82 U	0.83 U	0.81 U	0.81 U	0.81 U
Chlordane, beta- (trans-Chlordane)	--	--	--	0.78 U	0.78 U	0.77 U	0.79 U	0.77 U	0.78 U	0.76 U	0.76 U	0.76 U
Dieldrin	1.9	--	--	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U
Heptachlor	1.5	--	--	0.64 U	0.64 U	0.64 U	0.65 U	0.63 U	0.64 U	0.63 U	0.63 UJ	0.63 U
Hexachlorobutadiene	11	--	270	4.9 U	4.9 U	4.9 U	5.0 U	4.8 U	4.9 U	4.8 U	4.8 U	4.8 U
Nonachlor, cis-	--	--	--	1.6 U	1.6 U	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U
Nonachlor, trans-	--	--	--	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.6 U	4.6 U	4.6 U
Oxychlordane	--	--	--	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.2 U	2.2 U	2.2 U
Sum 4,4' DDT, DDE, DDD (U = 0)	--	50	69	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U
Total Chlordane (U = 0)	2.8	37	--	4.7 U	4.7 U	4.7 U	4.8 U	4.7 U	4.7 U	4.6 U	4.6 U	4.6 U
PCB Aroclors (µg/kg)												
Aroclor 1016	--	--	--	19 U	19 U	20 U	19 U	19 U	19 U	19 U	18 U	20 U
Aroclor 1221	--	--	--	19 U	19 U	20 U	19 U	19 U	19 U	19 U	18 U	20 U
Aroclor 1232	--	--	--	19 U	19 U	20 U	29 U	19 U	19 U	19 U	18 U	20 U
Aroclor 1242	--	--	--	19 U	19 U	20 U	19 U	19 U	19 U	19 U	18 U	20 U
Aroclor 1248	--	--	--	58 U	38 U	20 U	19 U	19 U	19 U	19 U	18 U	20 U
Aroclor 1254	--	--	--	88	48 U	20 U	29 U	28 U	19 U	22	18 U	20 U
Aroclor 1260	--	--	--	33	22	20 U	19 U	19 U	19 U	19 U	18 U	20 U
Total PCB Aroclors (U = 0)	130	--	3100	121	22	20 U	29 U	28 U	19 U	22	18 U	20 U

Table 3
Sediment Results Compared to DMMP Criteria from Kenmore Navigation Channel and North Lake Marina

	Location ID			SG-02	SG-03	SG-04	SG-05	SG-06	SG-07	SG-07	SG-08	SG-09
	Location			North Lake Marina		Kenmore Navigation Channel						
	Sample ID			SG-02-S-C-121108	SG-03-S-C-121108	SG-04-S-C-121108	SG-05-S-C-121108	SG-06-S-C-121108	SG-07-S-C-121108	SG-07-S-C-DUP-121108	SG-08-S-C-121108	SG-09-S-C-121108
	Sample Date			11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012
	Sample Interval			0-22 cm	0-25 cm	0-15 cm	0-23 cm	0-25 cm	0-25 cm	0-25 cm	0-25 cm	0-25 cm
	DMMP SL	DMMP BT	DMMP ML									
PCB Aroclors (mg/kg-OC)												
Total PCB Aroclors (U = 0)	--	38	--	1.7	0.33	0.73 U	0.53 U	0.57 U	0.38 U	0.31	0.55 U	0.38 U
Dioxin Furans (ng/kg)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	0.975 J	0.599 J	0.15 J	0.322 J	0.478 J	0.306 J	0.341 J	0.293 J	0.372 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	7.83	3.75	0.381 J	1.33	1.58	1.18	1.03	0.870 J	1.24
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	14.5	6.97	0.491 J	2.18	2.65	1.42 J	1.38 J	1.36 J	1.71 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	53.1	28.0	1.62 J	8.58	9.51	4.38	4.21	3.85	5.03
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	29.5	14.5	0.897 J	4.84	5.68	2.85	2.95	2.99	3.54
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	1020	610	40.5	184	237	85.5	82.7	88.5	103
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	--	7420	4760	307	1540	2520	652	613	684	798
Total Tetrachlorodibenzo-p-dioxin (TCDD)	--	--	--	14.9 J	9.77 J	1.13 J	4.22 J	4.89 J	4.25 J	3.82 J	3.33 J	4.12 J
Total Pentachlorodibenzo-p-dioxin (PeCDD)	--	--	--	43.9	26.5	2.51 J	9.38 J	9.24 J	8.33 J	7.29 J	6.12 J	7.92 J
Total Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	--	334	206	16.1	60.4	70.1	31.4 J	30.2 J	27.2 J	35.0 J
Total Heptachlorodibenzo-p-dioxin (HpCDD)	--	--	--	2260	1620	134	473	803	167	155	160	191
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	--	--	--	3.37	2.13	0.173 J	0.841 J	0.967 J	0.643 J	0.579 J	0.553 J	0.784 J
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	--	--	--	3.04	1.71 J	0.164 J	0.684 J	0.746 J	0.442 J	0.466 J	0.409 J	0.577 J
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	--	--	--	3.27	1.86	0.128 J	0.785 J	0.826 J	0.452 J	0.556 J	0.540 J	0.573 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	--	8.04	4.83	0.289 J	1.74 J	1.90 J	1.20 J	1.05 J	1.30 J	1.43 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	--	8.28	4.02	0.261 J	1.45 J	1.64 J	0.989 J	0.958 J	0.964 J	1.23 J
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	--	--	--	3.12	1.8 J	0.185 J	0.751 J	0.846 J	0.386 J	0.411 J	0.366 J	0.497 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	--	11.7	6.21	0.361 J	2.14	2.55	1.40 J	1.34 J	1.37 J	1.74 J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	--	--	--	137	84.1	4.39	25.4	31.3	14.6	14.6	18.7	17.7
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	--	--	--	7.34	4.63	0.315 J	1.63 J	1.98 J	1.06 J	1.14 J	1.83 J	1.33 J
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	--	366	272	10.8	71.9	108	40.9	39.5	66.0	46.6
Total Tetrachlorodibenzofuran (TCDF)	--	--	--	55.5 J	32.2 J	2.12 J	13.8 J	15.5 J	11.1 J	10.3 J	9.21 J	12.2 J
Total Pentachlorodibenzofuran (PeCDF)	--	--	--	119	59.4 J	3.51 J	22.5 J	24.5 J	14.8 J	14.2 J	12.8 J	17.1 J
Total Hexachlorodibenzofuran (HxCDF)	--	--	--	240	136 J	7.38 J	45.2	51.1 J	25.8 J	25.6	25.7 J	30.6 J
Total Heptachlorodibenzofuran (HpCDF)	--	--	--	404	273	13.1 J	79.2	104	43.8	43.3	57.2 J	52.8 J
Total Dioxin/Furan TEQ 2005 (Mammal) (U = 0)	4 - 10 ^a	--	10	37.0 J	20.3 J	1.6 J	6.8 J	8.4 J	4.2 J	4.0 J	3.9 J	4.9 J
Total Dioxin/Furan TEQ 2005 (Mammal) (U = 1/2)	4 - 10 ^a	--	10	37.0 J	20.3 J	1.6 J	6.8 J	8.4 J	4.2 J	4.0 J	3.9 J	4.9 J

Notes:

a Non-dispersive Screening Levels. DMMPUs with dioxin concentrations below 10 ng/kg TEQ will be allowed for open-water disposal as long as the volume-weighted average concentration of dioxins in material from the entire dredging project does not exceed the Disposal Site Management Objective of 4 ng/kg TEQ

- Detected concentration is greater than DMMP Marine SL (screening level)
- Detected concentration is greater than DMMP Marine BT (bioaccumulation trigger)
- Detected concentration is greater than DMMP Marine ML (maximum level)

All non-detect pesticides and dioxin/furan data were reported at the **method detection limit**; all other non-detect data were reported at the **reporting limit**. Non-detect exceedances are not highlighted.

Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.

Totals are calculated as the sum of all detected results and 1/2 the undetected reporting limit (U=1/2). If all results are not detected, the highest reporting limit value is reported as the sum.

Total LPAH (Low PAH) are the total of Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene, and Anthracene. 2-Methylnaphthalene is not included in the sum of LPAHs.

Total HPAH (High PAH) are the total of Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzofluoranthenes, Benzo(a)pyrene, Indeno(1,2,3-c,d)pyrene, Dibenzo(a,h)anthracene, and Benzo(g,h,i)perylene.

Sum 4,4' DDT, DDE, DDD consists of the sum of 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT.

Total Chlordane includes alpha-chlordane (cis-chlordane), beta-chlordane (trans-chlordane), cis-nonaclor, trans-nonaclor, and oxychlordane.

Total DMMP PCB Aroclors is the total of all PCB Aroclors listed in this table.

Dioxin/Furan Toxicity Equivalency (TEQ) values as of 2005, World Health Organization.

USEPA Stage 2A validation was performed by Anchor QEA on all compounds, except dioxin/furans.

USEPA Stage 4 validation was performed by LDC on dioxin/furans.

Bold = Detected result

-- = results not reported or not applicable

Sampling and Analysis Results Memorandum

Kenmore Sediment and Water Characterization

% = percent

µg/kg = micrograms per kilogram

µg/L = micrograms per liter

BT = bioaccumulation trigger

cm = centimeter

DMMP = Dredged Material Management Program

HPAH = high polycyclic aromatic hydrocarbons

ID = identification

J = estimated value

LPAH = low polycyclic aromatic hydrocarbons

mg/kg = milligrams per kilogram

mg/kg-OC = milligrams per kilogram, organic carbon normalized

ML = maximum level

ng/kg = nanograms per kilogram

PCB = polychlorinated biphenyl

SL = screening level

TEQ = toxic equivalency

U = compound analyzed, but not detected above detection limit

UJ = compound analyzed, but not detected above estimated detection limit

USEPA = U.S. Environmental Protection Agency

March 2013

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Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

Location ID Location Sample ID Sample Date Sample Interval			HT-01	HT-02	HT-03	HT-04	HT-05	HT-06	HT-07	HT-08
			Log Boom Park Shoreline					Tributary 0056		WDFW Boat Launch
			HT-01-S-C-121106	HT-02-S-C-121106	HT-03-S-C-121106	HT-04-S-C-121106	HT-05-S-C-121106	HT-06-S-E-121106	HT-07-S-E-121106	HT-08-S-C-121106
			11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012
			0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
Freshwater SL1			Freshwater SL2							
Conventional Parameters (%)										
Total organic carbon	--	--	0.240	0.484	0.770	6.20	0.531	1.25	1.72	3.08
Total solids	--	--	77.3	78.8	65.7	50.9	80.4	74.8	80.5	77.2
Total volatile solids	--	--	0.67	1.46	7.06	19.69	2.05	1.54	1.72	1.49
Gravel	--	--	12.1	29.8	5.6	0.4	62.9	8.3	41.1	38.0
Sand, Very Coarse	--	--	3.5	1.6	1.6	0.5	8.6	2.5	10.4	2.2
Sand, Coarse	--	--	6.3	2.4	2.0	0.8	8.1	6.9	12.7	1.8
Sand, Medium	--	--	23.8	11.3	13.0	4.3	12.7	35.8	18.4	20.5
Sand, Fine	--	--	45.2	35.2	22.6	26.2	4.8	32.2	11.1	28.5
Sand, Very Fine	--	--	6.1	17.7	48.7	54.2	0.9	8.3	3.6	5.8
Fines (silt + clay)	--	--	3.0	2.0	6.3	13.6	2.0	6.1	2.7	3.2
Silt, Coarse	--	--	3.0 U	2.0 U	6.3	13.6	2.0 U	3.7	2.7 U	3.2 U
Silt, Medium	--	--	3.0 U	2.0 U	0.1 U	0.1 U	2.0 U	0.7	2.7 U	3.2 U
Silt, Fine	--	--	3.0 U	2.0 U	0.1 U	0.1 U	2.0 U	0.6	2.7 U	3.2 U
Silt, Very Fine	--	--	3.0 U	2.0 U	0.1 U	0.1 U	2.0 U	0.4	2.7 U	3.2 U
Clay, Coarse	--	--	3.0 U	2.0 U	0.1 U	0.1 U	2.0 U	0.4	2.7 U	3.2 U
Clay, Medium	--	--	3.0 U	2.0 U	0.1 U	0.1 U	2.0 U	0.2	2.7 U	3.2 U
Clay, Fine	--	--	3.0 U	2.0 U	0.1 U	0.1 U	2.0 U	0.1	2.7 U	3.2 U
Metals (mg/kg)										
Antimony	--	--	6 UJ	6 UJ	7 UJ	10 UJ	6 UJ	7 UJ	6 UJ	6 UJ
Arsenic	20	51	6 U	6 U	7 U	10 U	6 U	7 U	6 U	6 U
Cadmium	1.1	1.5	0.2 U	0.3 U	0.3	0.5	0.4	0.3	0.3	0.3
Chromium	95	100	17.8 J	23.3 J	23.0 J	27 J	20.3 J	25.5 J	30.1 J	29.6 J
Copper	80	830	4.3	5.6	7.6	15.2	220	9.9	11.4	38.2
Lead	340	430	4	4	10	16	3	6	10	7
Mercury	0.28	0.75	0.03 U	0.02 U	0.03 U	0.23	0.02 U	0.02 U	0.03 U	0.02 U
Nickel	60	70	20	24	25	27	36	30	34	28
Selenium	--	--	0.6 U	0.6 U	0.7 U	1 U	0.6 U	0.6 U	0.6 U	0.6 U
Silver	2	2.5	0.4 U	0.4 U	0.4 U	0.6 U	0.4 U	0.4 U	0.4 U	0.4 U
Zinc	130	400	34	41	58	117	69	53	90	54
Organometallic Compounds										
Tributyltin (porewater) µg/L	--	--	--	--	--	--	--	--	--	--
Tributyltin (bulk) µg/kg	--	--	--	--	--	--	--	3.4 U	3.7 U	--
Polycyclic Aromatic Hydrocarbons (µg/kg)										
1-Methylnaphthalene	--	--	4.6 U	2.5 J	27	83	4.6 U	4.7 U	4.4 J	4.6 U
2-Methylnaphthalene	470	560	4.6 U	4.0 J	51	190	4.6 U	6.1	6.7	3.5 J
Acenaphthene	1100	1300	4.6 U	3.1 J	55	120	4.6 U	3.4 J	4.9 U	4.6 U
Acenaphthylene	470	640	4.6 U	4.9 U	3.4 J	20	4.6 U	4.7 U	4.9 U	4.6 U
Anthracene	1200	1600	4.6 U	4.6 J	54	190	3.8 J	7.8	4.9 U	4.6 U

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

Location ID Location Sample ID Sample Date Sample Interval			HT-01	HT-02	HT-03	HT-04	HT-05	HT-06	HT-07	HT-08
			Log Boom Park Shoreline					Tributary 0056		WDFW Boat Launch
			HT-01-S-C-121106	HT-02-S-C-121106	HT-03-S-C-121106	HT-04-S-C-121106	HT-05-S-C-121106	HT-06-S-E-121106	HT-07-S-E-121106	HT-08-S-C-121106
			11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012
			0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
	Freshwater SL1	Freshwater SL2								
Benzo(a)anthracene	4300	5800	4.6 U	6.0	75	330	10	38	18 J	9.6
Benzo(a)pyrene	3300	4800	4.6 U	3.3 J	57	210	5.7	42	24	10
Benzo(b,j,k)fluoranthenes	600	4000	4.6 U	9.0	120	550	16	88	50	25
Benzo(g,h,i)perylene	4000	5200	4.6 U	4.9 U	34	74	3.2 J	21	26	6.9
Chrysene	5900	6400	4.6 U	8.0	110	480	18	50	29	15
Dibenzo(a,h)anthracene	800	840	4.6 U	4.9 U	7.0	23	4.6 U	5.8	4.9 U	4.6 U
Fluoranthene	11000	15000	4.3 J	24	260	1100	22	100	50	28
Fluorene	1000	3000	4.6 U	5.8	72	230	2.4 J	6.1	4.9 U	3.2 J
Indeno(1,2,3-c,d)pyrene	4100	5300	4.6 U	4.9 U	25	69	4.6 U	19	20	5.7
Naphthalene	500	1300	4.6 U	6.8	97	380	2.6 J	5.8	2.8 J	3.3 J
Phenanthrene	6100	7600	3.1 J	20	260	860	8.0	51	20	11
Pyrene	8800	16000	3.0 J	19	170	740	18	85	39	26
Total LPAH (SEF) (U = 0)	6600	9200	3.1 J	44 J	590 J	2000	17 J	80 J	30 J	21 J
Total LPAH (SEF) (U = 1/2)	6600	9200	17 J	47 J	590 J	2000	24 J	83 J	39 J	28 J
Total HPAH (SEF) (U = 0)	31000	55000	7.3 J	69 J	860	3600	93 J	450	260 J	130
Total HPAH (SEF) (U = 1/2)	31000	55000	23 J	77 J	860	3600	98 J	450	260 J	130
Chlorinated Hydrocarbons (µg/kg)										
1,2,4-Trichlorobenzene	--	--	19 U	20 U	19 U	20 U	18 U	19 U	20 U	18 U
1,2-Dichlorobenzene	--	--	19 U	20 U	19 U	20 U	18 U	19 U	20 U	18 U
1,3-Dichlorobenzene	--	--	19 U	20 U	19 U	20 U	18 U	19 U	20 U	18 U
1,4-Dichlorobenzene	--	--	19 U	20 U	19 U	20 U	18 U	19 U	20 U	18 U
Hexachlorobenzene	--	--	19 U	20 U	19 U	23	18 U	4.9 U	4.9 U	18 U
Hexachloroethane	--	--	19 U	20 U	19 U	20 U	18 U	19 U	20 U	18 U
Phthalates (µg/kg)										
Bis(2-ethylhexyl)phthalate	220	320	16 J	18 J	66	460	23	110	79	72
Butylbenzyl phthalate	260	370	19 U	20 U	16 J	65	18 U	19 U	20 U	19
Diethyl phthalate	--	--	67	49 U	48 U	49 U	46 U	48 U	50 U	46 U
Dimethyl phthalate	46	440	19 U	20 U	19 U	20 U	18 U	19 U	20 U	97
Di-n-butyl phthalate	--	--	19 U	20 U	19 U	20 U	18 U	19 U	20 U	28
Di-n-octyl phthalate	26	45	19 U	20 U	19 U	20 U	18 U	19 U	20 U	18 U
Phenols (µg/kg)										
2,4-Dimethylphenol	--	--	19 UJ	20 UJ	19 UJ	20 UJ	18 UJ	19 UJ	20 UJ	18 UJ
2-Methylphenol (o-Cresol)	--	--	19 U	20 U	19 U	16 J	18 U	19 U	20 U	18 U
4-Methylphenol (p-Cresol)	--	--	38 U	39 U	36 J	150	24 J	38 U	40 U	37 U
Pentachlorophenol	--	--	190 U	200 U	190 U	200 U	180 U	190 U	200 U	180 U
Phenol	--	--	19 U	20 U	18 J	180	10 J	19 U	20 U	18 U
Miscellaneous Extractables (µg/kg)										
Benzoic acid	--	--	380 U	390 U	390 U	390 J	370 U	380 U	400 U	370 U
Benzyl alcohol	--	--	19 U	20 U	20	210	18 U	37	19 J	18 U
Dibenzofuran	400	440	4.6 U	5.5	78	280	4.6 U	5.6	4.9 U	4.6 U

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

	Location ID		HT-01	HT-02	HT-03	HT-04	HT-05	HT-06	HT-07	HT-08
	Location		Log Boom Park Shoreline					Tributary 0056		WDFW Boat Launch
	Sample ID		HT-01-S-C-121106	HT-02-S-C-121106	HT-03-S-C-121106	HT-04-S-C-121106	HT-05-S-C-121106	HT-06-S-E-121106	HT-07-S-E-121106	HT-08-S-C-121106
	Sample Date		11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012
	Sample Interval		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
	Freshwater SL1	Freshwater SL2								
Hexachlorobutadiene	--	--	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	4.9 U	4.9 U	10 UJ
N-Nitrosodiphenylamine	--	--	19 U	20 U	19 U	20 U	18 U	19 U	20 U	18 U
Pesticides (µg/kg)										
4,4'-DDD (p,p'-DDD)	--	--	--	--	--	--	--	0.66 U	0.66 U	--
4,4'-DDE (p,p'-DDE)	--	--	--	--	--	--	--	0.60 U	0.61 U	--
4,4'-DDT (p,p'-DDT)	--	--	--	--	--	--	--	0.93 U	0.94 U	--
Aldrin	--	--	--	--	--	--	--	0.27 U	0.27 U	--
Chlordane, alpha- (cis-Chlordane)	--	--	--	--	--	--	--	0.25 U	0.25 U	--
Chlordane, beta- (trans-Chlordane)	--	--	--	--	--	--	--	0.37 U	0.38 U	--
Dieldrin	--	--	--	--	--	--	--	0.49 U	0.49 U	--
Heptachlor	--	--	--	--	--	--	--	0.64 U	0.65 U	--
Nonachlor, cis-	--	--	--	--	--	--	--	2.6 U	2.6 U	--
Nonachlor, trans-	--	--	--	--	--	--	--	2.6 U	2.6 U	--
Oxychlordane	--	--	--	--	--	--	--	4.0 U	4.0 U	--
PCB Aroclors (µg/kg)										
Aroclor 1016	--	--	18 U	19 U	19 U	18 U	17 U	17 U	20 U	17 U
Aroclor 1221	--	--	18 U	19 U	19 U	18 U	17 U	17 U	20 U	17 U
Aroclor 1232	--	--	18 U	19 U	19 U	18 U	17 U	17 U	20 U	17 U
Aroclor 1242	--	--	18 U	19 U	19 U	18 U	17 U	17 U	20 U	17 U
Aroclor 1248	--	--	18 U	19 U	19 U	18 U	17 U	17 U	20 U	17 U
Aroclor 1254	--	--	18 U	19 U	19 U	28 J	17 U	17 U	20 U	17 U
Aroclor 1260	--	--	18 U	19 U	19 U	18 U	17 U	17 U	20 U	17 U
Total PCB Aroclors (U = 0)	60	120	18 U	19 U	19 U	28 J	17 U	17 U	20 U	17 U
Dioxin Furans (ng/kg)										
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	--	--	0.134 J	0.168 J	0.239 J	0.546 J	0.151 J	0.176 J	0.156 J	0.148 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	--	--	0.0671 U	0.158 J	0.640 J	2.14	0.420 J	0.274 J	0.243 J	0.144 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	0.209 U	0.137 J	0.654 J	2.18	0.340 J	0.374 J	0.347 J	0.120 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	0.193 J	0.434 J	2.25	8.69	0.884 J	1.50 J	0.911 J	0.387 J
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	0.103 J	0.275 J	1.29 J	4.33	0.790 J	0.785 J	0.660 J	0.289 J
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	--	--	3.79	9.30	38.7	178	18.4	25.4	17.1	8.06
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	31.4	101	272	1460	136	188	136	59.8
Total Tetrachlorodibenzo-p-dioxin (TCDD)	--	--	0.132 J	0.362 J	2.56 J	7.22 J	0.667 J	1.26 J	1.27 J	0.601 J
Total Pentachlorodibenzo-p-dioxin (PeCDD)	--	--	0.170 J	0.780 J	4.21 J	14.3 J	2.79 J	1.77 J	1.68 J	0.735 J
Total Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	1.20 J	3.17 J	16.3 J	65.1 J	8.55 J	9.16 J	6.05	2.53 J
Total Heptachlorodibenzo-p-dioxin (HpCDD)	--	--	7.37	21.4	83.9	423	40.0	47.3	30.4	14.5
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	--	--	0.0355 U	0.135 J	0.397 J	1.41	0.0860 U	0.252 J	0.116 U	0.0818 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	--	--	0.0611 U	0.0990 U	0.303 J	0.871 J	0.115 U	0.204 J	0.142 U	0.0818 UJ
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	--	--	0.0454 J	0.0812 J	0.317 J	1.05	0.117 J	0.252 J	0.156 J	0.0758 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	0.0375 J	0.105 J	0.459 J	1.79 J	0.205 J	0.559 J	0.261 J	0.124 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	0.0493 J	0.115 J	0.518 J	1.78 J	0.219 J	0.320 J	0.221 J	0.130 J

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

			Location ID	HT-01	HT-02	HT-03	HT-04	HT-05	HT-06	HT-07	HT-08
			Location	Log Boom Park Shoreline					Tributary 0056		WDFW Boat Launch
			Sample ID	HT-01-S-C-121106	HT-02-S-C-121106	HT-03-S-C-121106	HT-04-S-C-121106	HT-05-S-C-121106	HT-06-S-E-121106	HT-07-S-E-121106	HT-08-S-C-121106
			Sample Date	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012	11/6/2012
			Sample Interval	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-10 cm
	Freshwater SL1	Freshwater SL2									
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	--	--		0.0335 J	0.145 U	0.185 J	0.618 J	0.127 J	0.180 J	0.0917 J	0.0539 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	--	--		0.0572 J	0.129 J	0.754 J	2.65	0.270 J	0.503 J	0.355 J	0.0858 J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	--	--		0.643 J	1.21 J	5.68	26.8	2.44	3.93	3.43	1.59 J
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	--	--		0.414 U	0.0495 J	0.349 J	1.77 J	0.233 J	0.302 J	0.215 J	0.134 J
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--		1.91 J	3.44 J	11.8	71.5	7.39	8.80	9.54	3.89 J
Total Tetrachlorodibenzofuran (TCDF)	--	--		0.444 J	1.46 J	6.63 J	25.6 J	1.25 J	4.09 J	4.03 J	1.15 J
Total Pentachlorodibenzofuran (PeCDF)	--	--		0.876 J	1.84 J	9.79 J	31.3 J	3.87 J	6.10 J	5.70 J	1.56 J
Total Hexachlorodibenzofuran (HxCDF)	--	--		1.18 J	2.42 J	13.6 J	50.5 J	4.60 J	8.75 J	6.85 J	2.41 J
Total Heptachlorodibenzofuran (HpCDF)	--	--		1.88	3.61 J	18.4 J	79.5 J	6.91 J	11.6	10.2	4.22
Total Dioxin/Furan TEQ 2005 (Mammal) (U = 0)				0.25 J	0.62 J	2.2 J	7.9 J	1.1 J	1.3 J	0.98 J	0.55 J
Total Dioxin/Furan TEQ 2005 (Mammal) (U = 1/2)				0.30 J	0.63 J	2.2 J	7.9 J	1.2 J	1.3 J	0.99 J	0.56 J

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

	Location ID		HT-09	HT-10	HT-11	SG-01	SG-02	SG-03	SG-04	SG-05
	Location		WDFW Boat Launch	Lyon Creek Park		Sammamish River	North Lake Marina		Kenmore Navigation Channel	
	Sample ID		HT-09-S-C-121106	HT-10-S-LFP-121106	HT-11-S-LFP-121106	SG-01-S-C-121107	SG-02-S-C-121108	SG-03-S-C-121108	SG-04-S-C-121108	SG-05-S-C-121108
	Sample Date		11/6/2012	11/6/2012	11/6/2012	11/7/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012
	Sample Interval		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-22 cm	0-25 cm	0-15 cm	0-23 cm
	Freshwater SL1	Freshwater SL2								
Conventional Parameters (%)										
Total organic carbon	--	--	2.13	1.91	0.456	1.33	7.12	6.60	2.73	5.43
Total solids	--	--	67.5	80.2	83.9	72.9	25.7	25.6	80.8	35.0
Total volatile solids	--	--	2.57	1.18	0.91	1.19	13.51	15.15	1.72	11.13
Gravel	--	--	19.1	33.3	51.4	0.1 U	0.4	11.8	71.4	3.1
Sand, Very Coarse	--	--	2.0	11.0	8.1	0.2	6.5	9.2	7.6	2.9
Sand, Coarse	--	--	1.9	22.2	15.6	2.1	5.5	7.2	6.9	5.3
Sand, Medium	--	--	15.2	25.8	19.3	47.4	5.5	7.2	7.6	11.1
Sand, Fine	--	--	37.3	5.9	4.7	44.2	7.2	7.8	2.9	14.3
Sand, Very Fine	--	--	13.6	1.2	0.4	4.0	9.1	10.1	1.0	15.2
Fines (silt + clay)	--	--	10.8	0.5	0.4	2.2	65.8	46.7	2.5	48.1
Silt, Coarse	--	--	6.0	0.5 U	0.4 U	--	10.0	13.1	--	7.7
Silt, Medium	--	--	1.3	0.5 U	0.4 U	--	19.3	8.4	--	16.0
Silt, Fine	--	--	1.1	0.5 U	0.4 U	--	15.2	10.9	--	9.9
Silt, Very Fine	--	--	1.1	0.5 U	0.4 U	--	11.1	7.0	--	7.1
Clay, Coarse	--	--	0.6	0.5 U	0.4 U	--	5.6	4.5	--	4.3
Clay, Medium	--	--	0.5	0.5 U	0.4 U	--	3.2	1.8	--	1.9
Clay, Fine	--	--	0.3	0.5 U	0.4 U	--	1.4	1.1	--	1.3
Metals (mg/kg)										
Antimony	--	--	7 UJ	6 UJ	6 UJ	6 UJ	20 U	20 U	6 U	10 U
Arsenic	20	51	7 U	6 U	6 U	6 UJ	20 U	20 U	6 U	10 U
Cadmium	1.1	1.5	0.4	0.3	0.3	0.2 U	1.3	1.2	0.3	0.7
Chromium	95	100	28.8 J	24.3 J	22.6 J	29.3	56	55	35.0	43
Copper	80	830	21.9	8.9	8.9	5.9 J	92.4	88.1	14.6	35.6
Lead	340	430	11	9	7	4 J	62	42	5	28
Mercury	0.28	0.75	0.03 U	0.02 U	0.02 U	0.03 U	0.18	0.1	0.02 U	0.08
Nickel	60	70	26	27	30	23	48	45	30	39
Selenium	--	--	0.7 U	0.6 U	0.6 U	0.6 U	2 U	2 U	0.6 U	1 U
Silver	2	2.5	0.4 U	0.3 U	0.4 U	0.4 U	1 U	1 U	0.4 U	0.9 U
Zinc	130	400	64	59	55	43 J	231	267	49	143
Organometallic Compounds										
Tributyltin (porewater) µg/L	--	--	--	--	--	--	0.67	0.058	0.049	0.008
Tributyltin (bulk) µg/kg	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (µg/kg)										
1-Methylnaphthalene	--	--	3.0 J	4.8 U	4.8 U	4.8 U	21	9.8 J	20 U	13 J
2-Methylnaphthalene	470	560	5.8	4.8 U	4.8 U	4.8 U	31	25	20 U	26
Acenaphthene	1100	1300	4.8 U	4.8 U	4.8 U	4.8 U	320	33	14 J	26
Acenaphthylene	470	640	4.8 U	4.8 U	4.8 U	4.8 U	22	16 J	20 U	20 U
Anthracene	1200	1600	3.7 J	4.8 U	4.8 U	4.8 U	66	68	26	39

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

	Location ID		HT-09	HT-10	HT-11	SG-01	SG-02	SG-03	SG-04	SG-05
	Location		WDFW Boat Launch	Lyon Creek Park		Sammamish River	North Lake Marina		Kenmore Navigation Channel	
	Sample ID		HT-09-S-C-121106	HT-10-S-LFP-121106	HT-11-S-LFP-121106	SG-01-S-C-121107	SG-02-S-C-121108	SG-03-S-C-121108	SG-04-S-C-121108	SG-05-S-C-121108
	Sample Date		11/6/2012	11/6/2012	11/6/2012	11/7/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012
	Sample Interval		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-22 cm	0-25 cm	0-15 cm	0-23 cm
	Freshwater SL1	Freshwater SL2								
Benzo(a)anthracene	4300	5800	24	18 J	4.8 U	15 J	210	190	81	110
Benzo(a)pyrene	3300	4800	25	21	4.8 U	15 J	190	160	62	76
Benzo(b,j,k)fluoranthenes	600	4000	64	44	2.5 J	35 J	530	420	140	220
Benzo(g,h,i)perylene	4000	5200	24	19	4.8 U	3.2 J	170	130	43	63
Chrysene	5900	6400	35	26	2.4 J	20	440	340	110	190
Dibenzo(a,h)anthracene	800	840	3.8 J	4.8 U	4.8 U	4.8 U	67	55	15 J	21
Fluoranthene	11000	15000	63	56	3.0 J	51	480	410	220	310
Fluorene	1000	3000	4.2 J	4.8 U	4.8 U	4.8 U	98	46	14 J	37
Indeno(1,2,3-c,d)pyrene	4100	5300	19	16 J	4.8 U	3.6 J	140	110	39	51
Naphthalene	500	1300	4.2 J	4.8 U	4.8 U	4.8 U	83	58	20 U	50
Phenanthrene	6100	7600	48	29	4.8 U	26	170	190	140	180
Pyrene	8800	16000	68	41	20 U	39	590	440	190	300
Total LPAH (SEF) (U = 0)	6600	9200	66 J	29	4.8 U	26	790	440 J	190 J	360
Total LPAH (SEF) (U = 1/2)	6600	9200	71 J	43	4.8 U	40	790	440 J	220 J	370
Total HPAH (SEF) (U = 0)	31000	55000	330 J	240 J	7.9 J	180 J	2800	2300	900 J	1300
Total HPAH (SEF) (U = 1/2)	31000	55000	330 J	240 J	30 J	180 J	2800	2300	900 J	1300
Chlorinated Hydrocarbons (µg/kg)										
1,2,4-Trichlorobenzene	--	--	19 U	19 U	20 U	19 U	19 U	20 U	20 U	20 U
1,2-Dichlorobenzene	--	--	19 U	19 U	20 U	19 U	19 U	20 U	20 U	20 U
1,3-Dichlorobenzene	--	--	19 U	19 U	20 U	19 U	19 U	20 U	20 U	20 U
1,4-Dichlorobenzene	--	--	19 U	19 U	20 U	19 U	19 U	20 U	20 U	20 U
Hexachlorobenzene	--	--	19 U	19 U	20 U	19 U	4.9 U	4.9 U	4.9 U	5.0 U
Hexachloroethane	--	--	19 U	19 U	20 U	19 U	19 U	20 U	20 U	20 U
Phthalates (µg/kg)										
Bis(2-ethylhexyl)phthalate	220	320	130	31	21 J	28	680	510	62 U	260
Butylbenzyl phthalate	260	370	19 U	19 U	20 U	19 U	32	32	20 U	20 U
Diethyl phthalate	--	--	48 U	48 U	49 U	48 U	49 U	38 J	49 U	49 U
Dimethyl phthalate	46	440	970	19 U	20 U	19 U	28	20 U	20 U	20 U
Di-n-butyl phthalate	--	--	17 J	19 U	20 U	19 U	19 U	9.8 J	20 U	20 U
Di-n-octyl phthalate	26	45	15 J	19 U	20 U	19 U	19 U	58 J	20 U	22 J
Phenols (µg/kg)										
2,4-Dimethylphenol	--	--	19 UJ	19 UJ	20 UJ	19 UJ	19 UJ	20 UJ	20 UJ	20 UJ
2-Methylphenol (o-Cresol)	--	--	19 U	19 U	20 U	19 UJ	19 U	20 U	20 UJ	20 U
4-Methylphenol (p-Cresol)	--	--	38 U	39 U	39 U	38 U	74	76	39 U	74
Pentachlorophenol	--	--	190 U	190 U	200 U	190 U	190 U	200 U	200 U	200 U
Phenol	--	--	11 J	19 U	20 U	19 U	19 U	110	20 U	180
Miscellaneous Extractables (µg/kg)										
Benzoic acid	--	--	140 J	390 U	390 U	380 U	960	1300	390 U	1300
Benzyl alcohol	--	--	23	19 U	20 U	19 U	82	130	20 U	160
Dibenzofuran	400	440	4.8 U	4.8 U	4.8 U	4.8 U	30	35	20 U	28

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

	Location ID		HT-09	HT-10	HT-11	SG-01	SG-02	SG-03	SG-04	SG-05
	Location		WDFW Boat Launch	Lyon Creek Park		Sammamish River	North Lake Marina		Kenmore Navigation Channel	
	Sample ID		HT-09-S-C-121106	HT-10-S-LFP-121106	HT-11-S-LFP-121106	SG-01-S-C-121107	SG-02-S-C-121108	SG-03-S-C-121108	SG-04-S-C-121108	SG-05-S-C-121108
	Sample Date		11/6/2012	11/6/2012	11/6/2012	11/7/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012
	Sample Interval		0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-22 cm	0-25 cm	0-15 cm	0-23 cm
	Freshwater SL1	Freshwater SL2								
Hexachlorobutadiene	--	--	10 UJ	10 UJ	10 UJ	10 UJ	4.9 U	4.9 U	4.9 U	5.0 U
N-Nitrosodiphenylamine	--	--	19 U	19 U	20 U	19 U	19 U	20 U	20 U	20 U
Pesticides (µg/kg)										
4,4'-DDD (p,p'-DDD)	--	--	--	--	--	--	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDE (p,p'-DDE)	--	--	--	--	--	--	1.7 U	1.7 U	1.7 U	1.7 U
4,4'-DDT (p,p'-DDT)	--	--	--	--	--	--	1.7 U	1.7 U	1.7 U	1.7 U
Aldrin	--	--	--	--	--	--	0.64 U	0.64 U	0.64 U	0.65 U
Chlordane, alpha- (cis-Chlordane)	--	--	--	--	--	--	0.83 U	0.83 U	0.83 U	0.84 U
Chlordane, beta- (trans-Chlordane)	--	--	--	--	--	--	0.78 U	0.78 U	0.77 U	0.79 U
Dieldrin	--	--	--	--	--	--	1.7 U	1.7 U	1.7 U	1.7 U
Heptachlor	--	--	--	--	--	--	0.64 U	0.64 U	0.64 U	0.65 U
Nonachlor, cis-	--	--	--	--	--	--	1.6 U	1.6 U	1.6 U	1.7 U
Nonachlor, trans-	--	--	--	--	--	--	4.7 U	4.7 U	4.7 U	4.8 U
Oxychlordane	--	--	--	--	--	--	2.3 U	2.3 U	2.3 U	2.3 U
PCB Aroclors (µg/kg)										
Aroclor 1016	--	--	19 U	19 U	19 U	17 U	19 U	19 U	20 U	19 U
Aroclor 1221	--	--	19 U	19 U	19 U	17 U	19 U	19 U	20 U	19 U
Aroclor 1232	--	--	19 U	19 U	19 U	17 U	19 U	19 U	20 U	29 U
Aroclor 1242	--	--	19 U	19 U	19 U	17 U	19 U	19 U	20 U	19 U
Aroclor 1248	--	--	19 U	19 U	19 U	17 U	58 U	38 U	20 U	19 U
Aroclor 1254	--	--	19 U	19 U	19 U	17 U	88	48 U	20 U	29 U
Aroclor 1260	--	--	19 U	19 U	19 U	17 U	33	22	20 U	19 U
Total PCB Aroclors (U = 0)	60	120	19 U	19 U	19 U	17 U	121	22	20 U	29 U
Dioxin Furans (ng/kg)										
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	--	--	0.183 J	0.168 J	0.153 J	0.164 J	0.975 J	0.599 J	0.150 J	0.322 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	--	--	0.305 J	0.117 J	0.0660 U	0.107 J	7.83	3.75	0.381 J	1.33
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	0.414 J	0.303 U	0.0718 J	0.0809 J	14.5	6.97	0.491 J	2.18
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	1.25 J	0.377 J	0.312 J	0.310 J	53.1	28.0	1.62 J	8.58
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	0.825 J	0.245 J	0.103 J	0.219 J	29.5	14.5	0.897 J	4.84
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	--	--	24.8	6.32	5.45	5.70	1020	610	40.5	184
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	169	40.1	44.9	40.5	7420	4760	307	1540
Total Tetrachlorodibenzo-p-dioxin (TCDD)	--	--	1.70 J	0.338 J	0.341 J	0.395 J	14.9 J	9.77 J	1.13 J	4.22 J
Total Pentachlorodibenzo-p-dioxin (PeCDD)	--	--	2.15 J	0.617 J	0.293 J	0.391 J	43.9	26.5	2.51 J	9.38 J
Total Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	8.76	2.30 J	1.76 J	2.07 J	334	206	16.1	60.4
Total Heptachlorodibenzo-p-dioxin (HpCDD)	--	--	47.3	11.0	14.0	10.9	2260	1620	134	473
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	--	--	0.175 J	0.0751 U	0.153 U	0.0691 U	3.37	2.13	0.173 J	0.841 J
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	--	--	0.159 J	0.0909 U	0.0563 U	0.0770 J	3.04	1.71 J	0.164 J	0.684 J
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	--	--	0.165 J	0.146 J	0.0466 J	0.0592 J	3.27	1.86	0.128 J	0.785 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	0.556 J	0.136 J	0.0834 J	0.154 J	8.04	4.83	0.289 J	1.74 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	0.373 J	0.119 J	0.0660 J	0.0573 J	8.28	4.02	0.261 J	1.45 J

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

			Location ID	HT-09	HT-10	HT-11	SG-01	SG-02	SG-03	SG-04	SG-05
			Location	WDFW Boat Launch	Lyon Creek Park		Sammamish River	North Lake Marina		Kenmore Navigation Channel	
			Sample ID	HT-09-S-C-121106	HT-10-S-LFP-121106	HT-11-S-LFP-121106	SG-01-S-C-121107	SG-02-S-C-121108	SG-03-S-C-121108	SG-04-S-C-121108	SG-05-S-C-121108
			Sample Date	11/6/2012	11/6/2012	11/6/2012	11/7/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012
			Sample Interval	0-10 cm	0-10 cm	0-10 cm	0-10 cm	0-22 cm	0-25 cm	0-15 cm	0-23 cm
	Freshwater SL1	Freshwater SL2									
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	--	--		0.265 J	0.140 U	0.162 U	0.0573 U	3.12	1.80 J	0.185 J	0.751 J
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	--	--		0.534 J	0.128 J	0.134 J	0.0553 J	11.7	6.21	0.361 J	2.14
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	--	--		6.28	1.05 J	0.840 J	1.19 J	137	84.1	4.39	25.4
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	--	--		0.574 J	0.0652 J	0.0272 J	0.0454 J	7.34	4.63	0.315 J	1.63 J
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--		14.0	2.38 J	1.61 J	2.67 J	366	272	10.8	71.9
Total Tetrachlorodibenzofuran (TCDF)	--	--		2.79 J	2.82 J	0.720 J	0.679 J	55.5 J	32.2 J	2.12 J	13.8 J
Total Pentachlorodibenzofuran (PeCDF)	--	--		4.39 J	2.74 J	2.97 J	1.28 J	119	59.4 J	3.51 J	22.5 J
Total Hexachlorodibenzofuran (HxCDF)	--	--		11.2 J	2.46 J	2.49 J	2.43 J	240	136 J	7.38 J	45.2
Total Heptachlorodibenzofuran (HpCDF)	--	--		19.5	2.73 J	2.23 J	3.28 J	404	273	13.1 J	79.2
Total Dioxin/Furan TEQ 2005 (Mammal) (U = 0)				1.4 J	0.52 J	0.32 J	0.46 J	37.0 J	20.3 J	1.6 J	6.8 J
Total Dioxin/Furan TEQ 2005 (Mammal) (U = 1/2)				1.4 J	0.54 J	0.37 J	0.47 J	37.0 J	20.3 J	1.6 J	6.8 J

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

Location ID Location Sample ID Sample Date Sample Interval			SG-06	SG-07	SG-07	SG-08	SG-09	SG-10	SG-11	SG-12
			Kenmore Navigation Channel					Harbour Village Marina		
			SG-06-S-C-121108	SG-07-S-C-121108	SG-07-S-C-DUP-121108	SG-08-S-C-121108	SG-09-S-C-121108	SG-10-S-E-121107	SG-11-S-E-121107	SG-12-S-E-121107
			11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/7/2012	11/7/2012	11/7/2012
			0 - 25 cm	0 - 25 cm	0 - 25 cm	0 - 25 cm	0 - 25 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
Freshwater SL1			Freshwater SL2							
Conventional Parameters (%)										
Total organic carbon	--	--	4.89	4.95	7.07	3.30	5.22	3.14	10.8	4.65
Total solids	--	--	29.9	33.7	34.3	42.0	35.7	56.1	16.9	27.4
Total volatile solids	--	--	13.89	13.40	14.11	9.10	10.58	6.51	24.10	13.67
Gravel	--	--	0.1 U	0.5	2.6	0.3	0.1	5.3	0.1 U	0.6
Sand, Very Coarse	--	--	7.4	2.7	2.7	1.5	2.1	3.0	5.3	4.2
Sand, Coarse	--	--	6.6	3.1	2.8	1.5	1.7	3.9	4.6	3.8
Sand, Medium	--	--	6.2	6.3	6.0	3.9	6.9	13.2	4.4	3.5
Sand, Fine	--	--	8.6	24.4	21.9	22.2	15.9	26.5	5.6	5.2
Sand, Very Fine	--	--	15.9	18.9	18.6	21.2	13.4	21.9	7.4	11.6
Fines (silt + clay)	--	--	55.2	44.1	45.4	49.3	59.7	26.4	72.7	71.1
Silt, Coarse	--	--	8.6	11.0	13.7	13.0	19.7	17.2	18.6	22.9
Silt, Medium	--	--	15.5	12.1	11.0	13.7	12.9	3.9	20.2	22.9
Silt, Fine	--	--	12.1	7.9	7.6	8.4	10.9	1.9	14.3	12.5
Silt, Very Fine	--	--	7.8	5.9	6.1	6.3	7.6	1.4	10.9	6.2
Clay, Coarse	--	--	6.3	3.8	3.9	3.9	4.7	1.0	5.1	3.4
Clay, Medium	--	--	3.2	2.5	2.1	2.6	2.6	0.5	2.6	2.0
Clay, Fine	--	--	1.6	0.9	0.9	1.4	1.3	0.5	1.1	1.0
Metals (mg/kg)										
Antimony	--	--	20 U	10 U	10 U	10 U	10 U	9 UJ	30 UJ	20 UJ
Arsenic	20	51	20 U	10 U	10 U	10 U	10 U	9 UJ	30 UJ ^a	20 UJ
Cadmium	1.1	1.5	0.8	0.6	0.6	0.6	0.6	0.4	1 U	0.7 U
Chromium	95	100	57	41	44	44	48	29.8	52	44
Copper	80	830	43.6	30.0	28.7	28.0	31.1	18.8 J	97 J	47.5 J
Lead	340	430	31	21	21	21	24	19 J	50 J	27 J
Mercury	0.28	0.75	0.10	0.11	0.08	0.07	0.08	0.04	0.1	0.1
Nickel	60	70	46	41	42	40	43	33	47	41
Selenium	--	--	2 U	1 U	1 U	1 U	1 U	0.9 U	3 U	2 U
Silver	2	2.5	1 U	0.9 U	0.8 U	0.7 U	0.9 U	0.5 U	2 U	1 U
Zinc	130	400	164	126	123	113	130	97 J	377 J	185 J
Organometallic Compounds										
Tributyltin (porewater) µg/L	--	--	0.023	0.005 U	0.005 U	0.005 U	0.005 U	--	--	--
Tributyltin (bulk) µg/kg	--	--	--	--	--	--	--	3.6 U	9.8	6.8
Polycyclic Aromatic Hydrocarbons (µg/kg)										
1-Methylnaphthalene	--	--	20 U	20 U	19 U	9.6 J	20 U	5.5	13 J	5.2
2-Methylnaphthalene	470	560	14 J	20 U	19 U	19 U	20 U	12	47	13
Acenaphthene	1100	1300	17 J	20 U	19 U	19 U	20 U	14	32	18 J
Acenaphthylene	470	640	20 U	20 U	19 U	19 U	20 U	3.5 J	19 J	5.7
Anthracene	1200	1600	28	18 J	19 U	19 U	20 U	57	66	41

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

	Location ID		SG-06	SG-07	SG-07	SG-08	SG-09	SG-10	SG-11	SG-12
	Location		Kenmore Navigation Channel					Harbour Village Marina		
	Sample ID		SG-06-S-C-121108	SG-07-S-C-121108	SG-07-S-C-DUP-121108	SG-08-S-C-121108	SG-09-S-C-121108	SG-10-S-E-121107	SG-11-S-E-121107	SG-12-S-E-121107
	Sample Date		11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/7/2012	11/7/2012	11/7/2012
	Sample Interval		0 - 25 cm	0 - 25 cm	0 - 25 cm	0 - 25 cm	0 - 25 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
	Freshwater SL1	Freshwater SL2								
Benzo(a)anthracene	4300	5800	110	110	52	42	40	200	200	120
Benzo(a)pyrene	3300	4800	120	63	55	50	45	190	210	110
Benzo(b,j,k)fluoranthenes	600	4000	300	170	140	120	120	400	570	290
Benzo(g,h,i)perylene	4000	5200	93	36	41	41	36	140	110	85
Chrysene	5900	6400	190	140	82	73	72	290	370	210
Dibenzo(a,h)anthracene	800	840	37	17 J	12 J	11 J	13 J	34	45	36
Fluoranthene	11000	15000	290	150	140	130	120	480	430	300
Fluorene	1000	3000	28	12 J	9.7 J	19 U	20 U	28	38	59
Indeno(1,2,3-c,d)pyrene	4100	5300	81	33	38	36	33	110	90	77
Naphthalene	500	1300	38	18 J	25	14 J	24	38	39	39
Phenanthrene	6100	7600	140	72	68	64	59	260	210	170
Pyrene	8800	16000	290	140	130	120	120	800	470	230
Total LPAH (SEF) (U = 0)	6600	9200	260 J	120 J	100 J	78 J	83	410 J	450 J	350 J
Total LPAH (SEF) (U = 1/2)	6600	9200	270 J	150 J	140 J	130 J	130	410 J	450 J	350 J
Total HPAH (SEF) (U = 0)	31000	55000	1500	860 J	690 J	620 J	600 J	2600	2500	1500
Total HPAH (SEF) (U = 1/2)	31000	55000	1500	860 J	690 J	620 J	600 J	2600	2500	1500
Chlorinated Hydrocarbons (µg/kg)										
1,2,4-Trichlorobenzene	--	--	20 U	20 U	19 U	19 U	20 U	20 U	20 U	20 U
1,2-Dichlorobenzene	--	--	20 U	20 U	19 U	19 U	20 U	20 U	20 U	20 U
1,3-Dichlorobenzene	--	--	20 U	20 U	19 U	19 U	20 U	20 U	20 U	20 U
1,4-Dichlorobenzene	--	--	20 U	20 U	19 U	19 U	20 U	20 U	20 U	20 U
Hexachlorobenzene	--	--	4.8 U	4.9 U	4.8 U	4.8 U	4.8 U	4.8 U	3.9 U	4.9 U
Hexachloroethane	--	--	20 U	20 U	19 U	19 U	20 U	20 U	20 U	20 U
Phthalates (µg/kg)										
Bis(2-ethylhexyl)phthalate	220	320	540	330	300	240	240	480	740	360
Butylbenzyl phthalate	260	370	57	28	19 U	36	29	20 U	24	71
Diethyl phthalate	--	--	58	49 U	48 U	48 U	49 U	50 U	44 J	100
Dimethyl phthalate	46	440	20 U	20 U	19 U	19 U	20 U	20 U	20 U	20 U
Di-n-butyl phthalate	--	--	20 U	20 U	12 J	19 U	20 U	20 U	20 U	26
Di-n-octyl phthalate	26	45	41 J	22 J	19 U	19 U	20 U	20 U	87	20 U
Phenols (µg/kg)										
2,4-Dimethylphenol	--	--	20 UJ	20 UJ	19 UJ	19 UJ	20 UJ	20 UJ	20 UJ	20 UJ
2-Methylphenol (o-Cresol)	--	--	20 U	20 U	19 U	19 U	20 U	20 U	11 J	12 J
4-Methylphenol (p-Cresol)	--	--	91	54	31 J	22 J	36 J	160	150	74
Pentachlorophenol	--	--	200 U	200 U	190 U	190 U	200 U	200 U	55 J	200 U
Phenol	--	--	80	42	42	19	39	55	140	300
Miscellaneous Extractables (µg/kg)										
Benzoic acid	--	--	1100	430	480	300 J	510	520	1400	1500
Benzyl alcohol	--	--	190	120	100	61	110	200	530	300
Dibenzofuran	400	440	20 U	20 U	19 U	19 U	20 U	19	24	13

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

	Location ID		SG-06	SG-07	SG-07	SG-08	SG-09	SG-10	SG-11	SG-12
	Location		Kenmore Navigation Channel					Harbour Village Marina		
	Sample ID		SG-06-S-C-121108	SG-07-S-C-121108	SG-07-S-C-DUP-121108	SG-08-S-C-121108	SG-09-S-C-121108	SG-10-S-E-121107	SG-11-S-E-121107	SG-12-S-E-121107
	Sample Date		11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/7/2012	11/7/2012	11/7/2012
	Sample Interval		0 - 25 cm	0 - 25 cm	0 - 25 cm	0 - 25 cm	0 - 25 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
	Freshwater SL1	Freshwater SL2								
Hexachlorobutadiene	--	--	4.8 U	4.9 U	4.8 U	4.8 U	4.8 U	4.8 U	3.9 U	10 UJ
N-Nitrosodiphenylamine	--	--	20 U	20 U	19 U	19 U	20 U	20 U	20 U	20 U
Pesticides (µg/kg)										
4,4'-DDD (p,p'-DDD)	--	--	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.6 U	1.3 U	1.7 U
4,4'-DDE (p,p'-DDE)	--	--	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	7.2 J	4.0 J
4,4'-DDT (p,p'-DDT)	--	--	1.7 U	1.7 U	1.7 U	1.7 U	1.6 U	1.6 U	1.3 U	1.7 U
Aldrin	--	--	0.63 U	0.64 U	0.63 U	0.63 U	0.63 U	0.62 U	0.51 U	0.64 U
Chlordane, alpha- (cis-Chlordane)	--	--	0.82 U	0.83 U	0.81 U	0.81 U	0.81 U	0.80 U	0.66 U	0.83 U
Chlordane, beta- (trans-Chlordane)	--	--	0.77 U	0.78 U	0.76 U	0.76 U	0.76 U	0.75 U	0.62 U	0.78 U
Dieldrin	--	--	1.6 U	1.7 U	1.6 U	1.6 U	1.6 U	1.6 U	1.3 U	1.7 U
Heptachlor	--	--	0.63 U	0.64 U	0.63 U	0.63 UJ	0.63 U	0.62 U	0.51 U	0.64 U
Nonachlor, cis-	--	--	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.3 U	1.6 U
Nonachlor, trans-	--	--	4.7 U	4.7 U	4.6 U	4.6 U	4.6 U	4.6 U	3.8 U	4.7 U
Oxychlordane	--	--	2.3 U	2.3 U	2.2 U	2.2 U	2.2 U	2.2 U	1.8 U	2.3 U
PCB Aroclors (µg/kg)										
Aroclor 1016	--	--	19 U	19 U	19 U	18 U	20 U	18 U	19 U	19 U
Aroclor 1221	--	--	19 U	19 U	19 U	18 U	20 U	18 U	19 U	19 U
Aroclor 1232	--	--	19 U	19 U	19 U	18 U	20 U	18 U	19 U	19 U
Aroclor 1242	--	--	19 U	19 U	19 U	18 U	20 U	18 U	19 U	19 U
Aroclor 1248	--	--	19 U	19 U	19 U	18 U	20 U	18 U	39 U	24 U
Aroclor 1254	--	--	28 U	19 U	22	18 U	20 U	32 U	48 U	49 U
Aroclor 1260	--	--	19 U	19 U	19 U	18 U	20 U	18 U	29 J	19 U
Total PCB Aroclors (U = 0)	60	120	28 U	19 U	22	18 U	20 U	32 U	29 J	49 U
Dioxin Furans (ng/kg)										
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	--	--	0.478 J	0.306 J	0.341 J	0.293 J	0.372 J	0.388 J	1.32	0.804 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	--	--	1.58	1.18	1.03	0.870 J	1.24	1.47	12.8	5.10
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	2.65	1.42 J	1.38 J	1.36 J	1.71 J	2.26	25.8	8.29
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	9.51	4.38	4.21	3.85	5.03	8.32	119	38.8
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	5.68	2.85	2.95	2.99	3.54	4.73	52.3	18.0
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	--	--	237	85.5	82.7	88.5	103	168	2120	769
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	2520	652	613	684	798	1290	16500	6410
Total Tetrachlorodibenzo-p-dioxin (TCDD)	--	--	4.89 J	4.25 J	3.82 J	3.33 J	4.12 J	3.27 J	14.7 J	9.33 J
Total Pentachlorodibenzo-p-dioxin (PeCDD)	--	--	9.24 J	8.33 J	7.29 J	6.12 J	7.92 J	8.56 J	60.3	27.8
Total Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	70.1	31.4 J	30.2 J	27.2 J	35.0 J	50.6 J	563	199
Total Heptachlorodibenzo-p-dioxin (HpCDD)	--	--	803	167	155	160	191	332	4150	1470
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	--	--	0.967 J	0.643 J	0.579 J	0.553 J	0.784 J	0.759 J	3.38	2.15
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	--	--	0.746 J	0.442 J	0.466 J	0.409 J	0.577 J	0.675 J	5.37 J	2.87
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	--	--	0.826 J	0.452 J	0.556 J	0.540 J	0.573 J	0.725 J	5.19	2.57 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	1.90 J	1.20 J	1.05 J	1.30 J	1.43 J	1.49 J	15.3	6.40
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	1.64 J	0.989 J	0.958 J	0.964 J	1.23 J	1.26 J	13.6	5.15

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

Location ID Location Sample ID Sample Date Sample Interval			SG-06	SG-07	SG-07	SG-08	SG-09	SG-10	SG-11	SG-12
			Kenmore Navigation Channel					Harbour Village Marina		
			SG-06-S-C-121108	SG-07-S-C-121108	SG-07-S-C-DUP-121108	SG-08-S-C-121108	SG-09-S-C-121108	SG-10-S-E-121107	SG-11-S-E-121107	SG-12-S-E-121107
			11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/8/2012	11/7/2012	11/7/2012	11/7/2012
			0 - 25 cm	0 - 25 cm	0 - 25 cm	0 - 25 cm	0 - 25 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
	Freshwater SL1	Freshwater SL2								
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	--	--	0.846 J	0.386 J	0.411 J	0.366 J	0.497 J	0.692 J	7.11	2.96
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	2.55	1.40 J	1.34 J	1.37 J	1.74 J	1.96	21.1	8.02
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	--	--	31.3	14.6	14.6	18.7	17.7	22.3	282	104
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	--	--	1.98 J	1.06 J	1.14 J	1.83 J	1.33 J	1.59 J	15.3	6.00
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	108	40.9	39.5	66.0	46.6	77.5	871	356
Total Tetrachlorodibenzofuran (TCDF)	--	--	15.5 J	11.1 J	10.3 J	9.21 J	12.2 J	11.3 J	51.2 J	29.7 J
Total Pentachlorodibenzofuran (PeCDF)	--	--	24.5 J	14.8 J	14.2 J	12.8 J	17.1 J	19.7 J	157 J	75.2 J
Total Hexachlorodibenzofuran (HxCDF)	--	--	51.1 J	25.8 J	25.6	25.7 J	30.6 J	39.1	472	193 J
Total Heptachlorodibenzofuran (HpCDF)	--	--	104	43.8	43.3	57.2 J	52.8 J	73.3	879	347
Total Dioxin/Furan TEQ 2005 (Mammal) (U = 0)			8.4 J	4.2 J	4.0 J	3.9 J	4.9 J	6.6 J	71.0 J	26.6 J
Total Dioxin/Furan TEQ 2005 (Mammal) (U = 1/2)			8.5 J	4.2 J	4.0 J	3.9 J	4.9 J	6.6 J	71.0 J	26.6 J

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

	Location ID		SG-13	SG-13	SG-14	SG-15	SG-16	SG-17
	Location		Harbour Village Marina		North of KIP	Kenmore Industrial Park Shoreline		
	Sample ID		SG-13-S-E-121107	SG-13-S-E-DUP-121107	SG-14-S-E-121107	SG-15-S-E-121107	SG-16-S-E-121107	SG-17-S-E-121107
	Sample Date		11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
	Sample Interval		0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
	Freshwater SL1	Freshwater SL2						
Conventional Parameters (%)								
Total organic carbon	--	--	5.45	3.82	4.33	1.87	0.724	2.98
Total solids	--	--	23.2	22.7	51.0	82.4	77.7	46.9
Total volatile solids	--	--	15.02	14.56	7.61	1.24	0.98	6.70
Gravel	--	--	0.1 U	0.1 U	22.6	0.4	0.1	0.3
Sand, Very Coarse	--	--	4.3	3.4	6.0	1.5	0.4	3.3
Sand, Coarse	--	--	3.2	3.0	7.6	3.9	5.5	3.9
Sand, Medium	--	--	2.8	2.9	14.6	22.3	77.5	5.5
Sand, Fine	--	--	5.1	4.6	11.4	62.7	14.6	6.0
Sand, Very Fine	--	--	10.1	9.3	7.3	6.8	1.2	11.7
Fines (silt + clay)	--	--	74.6	76.7	30.6	2.4	0.8	69.1
Silt, Coarse	--	--	11.5	11.6	7.5	--	--	12
Silt, Medium	--	--	21.2	22.4	7.9	--	--	17.3
Silt, Fine	--	--	16.9	17.4	5.3	--	--	13.0
Silt, Very Fine	--	--	13.3	13.7	4.9	--	--	9.2
Clay, Coarse	--	--	6.4	6.1	2.0	--	--	6.1
Clay, Medium	--	--	3.3	3.0	1.2	--	--	4.3
Clay, Fine	--	--	1.9	2.5	1.7	--	--	7.2
Metals (mg/kg)								
Antimony	--	--	20 UJ	20 UJ	10 UJ	6 UJ	6 UJ	10 UJ
Arsenic	20	51	20 UJ	20 UJ	10 UJ	6 UJ	6 UJ	10 UJ
Cadmium	1.1	1.5	0.9 U	0.9 U	0.7	0.3 U	0.2 U	0.4 U
Chromium	95	100	54	55	36	20.9	29.9	54
Copper	80	830	62.1 J	62.8 J	111 J	5.5 J	5.4 J	13.5 J
Lead	340	430	32 J	32 J	26 J	7 J	4 J	7 J
Mercury	0.28	0.75	0.1	0.1	0.24	0.03 U	0.03 U	0.04
Nickel	60	70	46	45	35	20	26	34
Selenium	--	--	2 U	2 U	1 U	0.7 U	0.6 U	1 U
Silver	2	2.5	1 U	1 U	0.7 U	0.4 U	0.4 U	0.6 U
Zinc	130	400	205 J	205 J	182 J	57 J	43 J	64 J
Organometallic Compounds								
Tributyltin (porewater) µg/L	--	--	--	--	0.010	--	--	--
Tributyltin (bulk) µg/kg	--	--	12	12	--	3.6 U	--	--
Polycyclic Aromatic Hydrocarbons (µg/kg)								
1-Methylnaphthalene	--	--	18 J	7.2	34	4.7 U	4.8 U	4.9 U
2-Methylnaphthalene	470	560	24	19	59	4.7 U	4.8 U	7.4
Acenaphthene	1100	1300	17 J	16 J	130	3.8 J	4.8 U	4.9 U
Acenaphthylene	470	640	26	7.5	26	4.7 U	4.8 U	4.9 U
Anthracene	1200	1600	48	44	150	4.7 U	4.8 U	11 J

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

	Location ID		SG-13	SG-13	SG-14	SG-15	SG-16	SG-17
	Location		Harbour Village Marina		North of KIP	Kenmore Industrial Park Shoreline		
	Sample ID		SG-13-S-E-121107	SG-13-S-E-DUP-121107	SG-14-S-E-121107	SG-15-S-E-121107	SG-16-S-E-121107	SG-17-S-E-121107
	Sample Date		11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
	Sample Interval		0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
	Freshwater SL1	Freshwater SL2						
Benzo(a)anthracene	4300	5800	150	160	360	4.6 J	4.8 U	42
Benzo(a)pyrene	3300	4800	140	120	250	4.1 J	2.9 J	41
Benzo(b,j,k)fluoranthenes	600	4000	380	320	720	12	8.2	91
Benzo(g,h,i)perylene	4000	5200	120	85	95	4.7 U	4.8 UJ	27
Chrysene	5900	6400	300	240	550	4.9	3.0 J	64
Dibenzo(a,h)anthracene	800	840	40	26	42	4.7 U	4.8 UJ	4.9 U
Fluoranthene	11000	15000	260	220	1200	12 J	11 J	130
Fluorene	1000	3000	46	32	150	5.5	4.8 U	2.5 J
Indeno(1,2,3-c,d)pyrene	4100	5300	100	79	97	4.7 U	4.8 UJ	24
Naphthalene	500	1300	39	40	170	4.7 U	4.8 UJ	4.0 J
Phenanthrene	6100	7600	190	160	830	16 J	2.6 J	93
Pyrene	8800	16000	290	230	920	11 J	9.7 J	120
Total LPAH (SEF) (U = 0)	6600	9200	390 J	320 J	1500	25 J	2.6 J	120 J
Total LPAH (SEF) (U = 1/2)	6600	9200	390 J	320 J	1500	35 J	17 J	120 J
Total HPAH (SEF) (U = 0)	31000	55000	1800	1500	4200	49 J	35 J	540
Total HPAH (SEF) (U = 1/2)	31000	55000	1800	1500	4200	56 J	44 J	540
Chlorinated Hydrocarbons (µg/kg)								
1,2,4-Trichlorobenzene	--	--	20 U	20 U	19 U	19 U	19 U	19 U
1,2-Dichlorobenzene	--	--	20 U	20 U	19 U	19 U	19 U	19 U
1,3-Dichlorobenzene	--	--	20 U	20 U	19 U	19 U	19 U	19 U
1,4-Dichlorobenzene	--	--	20 U	20 U	19 U	19 U	19 U	19 U
Hexachlorobenzene	--	--	4.9 U	4.9 U	4.9 U	0.97 U	19 U	19 U
Hexachloroethane	--	--	20 U	20 U	19 U	19 U	19 U	19 U
Phthalates (µg/kg)								
Bis(2-ethylhexyl)phthalate	220	320	560	430	280	21 J	19 J	150
Butylbenzyl phthalate	260	370	82	56	43	19 U	19 U	19 U
Diethyl phthalate	--	--	55	50 U	68	47 U	48 U	48 U
Dimethyl phthalate	46	440	20 U	20 U	19 U	19 U	19 U	38
Di-n-butyl phthalate	--	--	20 U	20 U	19 U	19 U	19 U	19 U
Di-n-octyl phthalate	26	45	73 J	42	24	19 U	19 U	11 J
Phenols (µg/kg)								
2,4-Dimethylphenol	--	--	20 UJ	20 UJ	19 UJ	19 UJ	19 UJ	19 UJ
2-Methylphenol (o-Cresol)	--	--	12 J	14 J	19 U	19 U	19 U	19 U
4-Methylphenol (p-Cresol)	--	--	110	110	59	10 J	39 U	270
Pentachlorophenol	--	--	52 J	200 U	190 U	190 U	190 U	190 U
Phenol	--	--	200	350	80	19 U	19 U	82
Miscellaneous Extractables (µg/kg)								
Benzoic acid	--	--	1600	1700	610	370 U	390 U	430
Benzyl alcohol	--	--	360	380	100	19 U	19 U	62
Dibenzofuran	400	440	12	17	90	4.7	4.8 U	4.9 U

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

	Location ID		SG-13	SG-13	SG-14	SG-15	SG-16	SG-17
	Location		Harbour Village Marina		North of KIP	Kenmore Industrial Park Shoreline		
	Sample ID		SG-13-S-E-121107	SG-13-S-E-DUP-121107	SG-14-S-E-121107	SG-15-S-E-121107	SG-16-S-E-121107	SG-17-S-E-121107
	Sample Date		11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
	Sample Interval		0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
	Freshwater SL1	Freshwater SL2						
Hexachlorobutadiene	--	--	4.9 U	4.9 U	4.9 U	0.97 U	10 UJ	10 UJ
N-Nitrosodiphenylamine	--	--	20 U	20 U	19 U	19 U	19 U	19 U
Pesticides (µg/kg)								
4,4'-DDD (p,p'-DDD)	--	--	1.7 U	1.7 U	1.7 U	0.33 U	--	--
4,4'-DDE (p,p'-DDE)	--	--	1.7 U	4.4 J	1.7 U	0.33 U	--	--
4,4'-DDT (p,p'-DDT)	--	--	1.7 U	1.7 U	1.7 U	0.33 UJ	--	--
Aldrin	--	--	0.64 U	0.64 U	0.64 U	0.13 U	--	--
Chlordane, alpha- (cis-Chlordane)	--	--	0.83 U	0.83 U	0.82 U	0.16 U	--	--
Chlordane, beta- (trans-Chlordane)	--	--	0.78 U	0.78 U	0.77 U	0.15 U	--	--
Dieldrin	--	--	1.7 U	1.7 U	1.6 U	0.33 U	--	--
Heptachlor	--	--	0.64 U	0.64 U	0.64 U	0.13 U	--	--
Nonachlor, cis-	--	--	1.6 U	1.6 U	1.6 U	0.32 U	--	--
Nonachlor, trans-	--	--	4.1 J	4.7 U	4.7 U	0.94 U	--	--
Oxychlordane	--	--	2.3 U	2.3 U	2.3 U	0.45 U	--	--
PCB Aroclors (µg/kg)								
Aroclor 1016	--	--	20 U	20 U	19 U	18 U	18 U	19 U
Aroclor 1221	--	--	20 U	20 U	19 U	18 U	18 U	19 U
Aroclor 1232	--	--	25 U	35 U	28 U	18 U	18 U	19 U
Aroclor 1242	--	--	20 U	20 U	19 U	18 U	18 U	19 U
Aroclor 1248	--	--	20 U	20 U	19 U	18 U	18 U	19 U
Aroclor 1254	--	--	50 U	25 U	20	18 U	18 U	19 U
Aroclor 1260	--	--	20 U	20 U	19 U	18 U	18 U	19 U
Total PCB Aroclors (U = 0)	60	120	50 U	35 U	20	18 U	18 U	19 U
Dioxin Furans (ng/kg)								
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	--	--	0.719 J	0.521 J	0.404 J	0.154 J	0.144 J	0.226 J
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	--	--	5.66	2.51	1.99	0.0891 J	0.0758 J	0.491 J
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	11.8	5.28	3.06	0.143 J	0.0679 J	1.03 J
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	97.4	32.5	12.5	0.818 J	0.202 J	2.12
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	25.6	10.8	6.86	0.350 J	0.168 J	2.33
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	--	--	1730	600	304	13.9	4.24	50.3
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	--	--	14400	4830	2490	105	32.0	252
Total Tetrachlorodibenzo-p-dioxin (TCDD)	--	--	10.5 J	4.89 J	5.27 J	0.446 J	0.481 J	1.11 J
Total Pentachlorodibenzo-p-dioxin (PeCDD)	--	--	31.5	13.1 J	13.5 J	0.632 J	0.441 J	2.03 J
Total Hexachlorodibenzo-p-dioxin (HxCDD)	--	--	353	136	102	4.11 J	1.86 J	14.9 J
Total Heptachlorodibenzo-p-dioxin (HpCDD)	--	--	3200	1120	877	27.3	8.18	82.0
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	--	--	2.84 J	1.22	1.09	0.103 U	0.0220 U	0.136 U
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	--	--	5.30 J	2.06 J	0.796 J	0.0911 J	0.0758 J	0.126 J
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	--	--	4.71	1.82	0.957 J	0.0752 J	0.0439 U	0.136 J
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	13.2	4.94	2.26	0.176 J	0.0918 J	0.625 J
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	8.24	3.39	2.08	0.103 J	0.0739 J	0.725 J

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

	Location ID		SG-13	SG-13	SG-14	SG-15	SG-16	SG-17
	Location		Harbour Village Marina		North of KIP	Kenmore Industrial Park Shoreline		
	Sample ID		SG-13-S-E-121107	SG-13-S-E-DUP-121107	SG-14-S-E-121107	SG-15-S-E-121107	SG-16-S-E-121107	SG-17-S-E-121107
	Sample Date		11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012	11/7/2012
	Sample Interval		0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm	0 - 10 cm
	Freshwater SL1	Freshwater SL2						
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	--	--	7.63	2.82	0.816 J	0.0653 U	0.0259 U	0.110 U
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	--	--	15.4	5.77	2.90	0.190 J	0.0559 J	1.06 J
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	--	--	230	93.1	36.2	2.05	0.888 J	14.4
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	--	--	10.6	4.97	2.54 J	0.0713 J	0.0639 J	0.950 J
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	--	--	837	379	106	5.88	1.75 J	24.5
Total Tetrachlorodibenzofuran (TCDF)	--	--	32.4 J	15.9 J	15.4 J	1.06 J	0.681 J	2.50 J
Total Pentachlorodibenzofuran (PeCDF)	--	--	129 J	51.6 J	28.9 J	3.73 J	0.950 J	5.21 J
Total Hexachlorodibenzofuran (HxCDF)	--	--	438 J	161	64.1 J	3.85 J	1.56 J	17.8 J
Total Heptachlorodibenzofuran (HpCDF)	--	--	809	314 J	115 J	6.17 J	2.41 J	31.5
Total Dioxin/Furan TEQ 2005 (Mammal) (U = 0)			50.0 J	19.0 J	10.1 J	0.64 J	0.35 J	2.3 J
Total Dioxin/Furan TEQ 2005 (Mammal) (U = 1/2)			50.0 J	19.0 J	10.1 J	0.65 J	0.36 J	2.3 J

Table 4
Kenmore Area Sediment Results Compared to Interim Freshwater Sediment Quality Values

Notes:

- Detected concentration is greater than Freshwater SL1 screening level
- Detected concentration is greater than Freshwater SL2 screening level

a Arsenic result of 30UJ was verified to be between the MDL and the RL and below the screening level.

All non-detect pesticides and dioxin/furan data were reported at the **MDL**; all other non-detect data were reported at the **RL**.
Totals are calculated as the sum of all detected results (U=0). If all results are not detected, the highest reporting limit value is reported as the sum.
Totals are calculated as the sum of all detected results and 1/2 the undetected reporting limit (U=1/2). If all results are not detected, the highest reporting limit value is reported as the sum.
Total LPAH (Low PAH) SEF is the total of 2-Methylnaphthalene, Naphthalene, Acenaphthylene, Acenaphthene, Fluorene, Phenanthrene and Anthracene.
Total HPAH (High PAH) SEF is the total of Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b,j,k)fluoranthenes, Benzo(a)pyrene, Indeno(1,2,3-c,d)pyrene, Dibenzo(a,h)anthracene and Benzo(g,h,i)perylene.
Total PCB Aroclors is the total of all PCB Aroclors listed in this table.
Dioxin/Furan TEQ values as of 2005, World Health Organization.

USEPA Stage 2A validation was performed by Anchor QEA on all compounds, except dioxin/furans.
USEPA Stage 4 validation was performed by LDC on dioxin/furans.

Bold = Detected result

- = results not reported or not applicable
- % = percent
- µg/kg = micrograms per kilogram
- µg/L = micrograms per liter
- HPAH = high polycyclic aromatic hydrocarbons
- J = estimated value
- KIP = Kenmore Industrial Park
- LPAH = low polycyclic aromatic hydrocarbons
- MDL = method detection limit
- mg/kg = milligrams per kilogram
- ng/kg = nanograms per kilogram
- PCB = polychlorinated biphenyl
- TEQ = toxic equivalency
- U = Compound analyzed, but not detected above detection limit
- UJ = Compound analyzed, but not detected above estimated detection limit
- USEPA = U.S. Environmental Protection Agency
- WDFW = Washington State Department of Fish and Wildlife

Table 5
Surface Water Results from Log Boom Park Shoreline and Lake Washington Reference Area

Location ID	HT-01	HT-04	HT-04	WS-10
Location Description	Log Boom Park Shoreline			Reference
Sample ID	HT-01-W-C-121107	HT-04-W-C-121107	HT-04-W-C-DUP-121107	WS-10-W-C-121107
Sample Date	11/7/2012	11/7/2012	11/7/2012	11/7/2012
Sample Depth	1 ft	0.5-1 ft	0.5-1 ft	3 ft
Conventional Parameters (mg/L)				
Hardness as CaCO ₃	48	50	49	43
Total suspended solids	13.8	3.7	3.4	2.0
Total dissolved solids	76.0	78.0	74.0	59.0
Metals (µg/L)				
Antimony	1 U	1 U	0.2 U	0.2 U
Arsenic	2	2	1.2	0.9
Barium	11	9	8.7	6.2
Beryllium	0.5 U	0.5 U	0.2 U	0.2 U
Cadmium	0.5 U	0.5 U	0.1 U	0.1 U
Calcium	11100	11500	11400	10200
Chromium	2 U	2 U	0.5 U	1 U
Copper	2.8	2.6	3.2	1.6
Iron	480	330	330	160
Lead	0.5	0.5 U	0.3	0.1 U
Magnesium	4830	5060	4970	4210
Manganese	111	32	12.4	21
Mercury	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	2	1	1.2	0.7
Selenium	2 U	2 U	0.5 U	0.5 U
Silver	1 U	1 U	0.2 U	0.2 U
Thallium	1 U	1 U	0.2 U	0.2 U
Zinc	20 U	20 U	4 U	4 U
Metals, Dissolved (µg/L)				
Antimony	0.2 U	0.2 U	0.2 U	0.2 U
Arsenic	0.8	1.0	1.0	0.8
Barium	7.4	7.8	7.7	6.0
Beryllium	0.2 U	0.2 U	0.2 U	0.2 U
Cadmium	0.1 U	0.1 U	0.1 U	0.1 U
Chromium	1 U	1 U	1 U	1 U
Copper	1.9	2.1	2.0	1.2
Iron	110	150	150	90
Lead	0.1	0.1	0.1 U	0.1 U
Manganese	2.8	4.6	5.1	13.8
Mercury	0.1 U	0.1 U	0.1 U	0.1 U
Nickel	1.1	1.1	1.0	0.8
Selenium	0.5 U	0.5 U	0.5 U	0.5 U
Silver	0.2 U	0.2 U	0.2 U	0.2 U
Thallium	0.2 U	0.2 U	0.2 U	0.2 U
Zinc	6	4 U	4 U	4 U

Table 5
Surface Water Results from Log Boom Park Shoreline and Lake Washington Reference Area

Location ID	HT-01	HT-04	HT-04	WS-10
Location Description	Log Boom Park Shoreline			Reference
Sample ID	HT-01-W-C-121107	HT-04-W-C-121107	HT-04-W-C-DUP-121107	WS-10-W-C-121107
Sample Date	11/7/2012	11/7/2012	11/7/2012	11/7/2012
Sample Depth	1 ft	0.5-1 ft	0.5-1 ft	3 ft
Polycyclic Aromatic Hydrocarbons (µg/L)				
1-Methylnaphthalene	0.10 U	0.10 U	0.10 U	0.10 U
2-Methylnaphthalene	0.10 U	0.10 U	0.10 U	0.10 U
Acenaphthene	0.10 U	0.10 U	0.10 U	0.10 U
Acenaphthylene	0.10 U	0.10 U	0.10 U	0.10 U
Anthracene	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(a)anthracene	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(a)pyrene	0.10 U	0.10 U	0.10 U	0.10 U
Benzo(b,j,k)fluoranthenes	0.20 U	0.20 U	0.20 U	0.20 U
Benzo(g,h,i)perylene	0.10 U	0.10 U	0.10 U	0.10 U
Chrysene	0.10 U	0.10 U	0.10 U	0.10 U
Dibenzo(a,h)anthracene	0.10 U	0.10 U	0.10 U	0.10 U
Fluoranthene	0.10 U	0.10 U	0.10 U	0.10 U
Fluorene	0.10 U	0.10 U	0.10 U	0.10 U
Indeno(1,2,3-c,d)pyrene	0.10 U	0.10 U	0.10 U	0.10 U
Naphthalene	0.10 U	0.10 U	0.10 U	0.10 U
Phenanthrene	0.10 U	0.10 U	0.10 U	0.10 U
Pyrene	0.10 U	0.10 U	0.10 U	0.10 U
Chlorinated Hydrocarbons (µg/L)				
1,2,4-Trichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorobenzene	1.0 U	1.0 U	1.0 U	1.0 U
Hexachloroethane	2.0 U	2.0 U	2.0 U	2.0 U
Phthalates (µg/L)				
Bis(2-ethylhexyl)phthalate	3.0 U	3.0 U	3.0 U	3.0 U
Butylbenzyl phthalate	1.0 U	1.0 U	1.0 U	1.0 U
Diethyl phthalate	1.0 U	1.0 U	1.0 U	1.0 U
Dimethyl phthalate	1.0 U	1.0 U	1.0 U	1.0 U
Di-n-butyl phthalate	1.0 U	1.0 U	1.0 U	1.0 U
Di-n-octyl phthalate	1.0 U	1.0 U	1.0 U	1.0 U
Phenols (µg/L)				
2,4-Dimethylphenol	3.0 U	3.0 U	3.0 U	3.0 U
2-Methylphenol (o-Cresol)	1.0 U	1.0 U	1.0 U	1.0 U
4-Methylphenol (p-Cresol)	2.0 U	2.0 U	2.0 U	2.0 U
Pentachlorophenol	0.024 J	0.022 J	0.020 J	0.025 U
Phenol	1.0 U	1.0 U	1.0 U	1.0 U
Miscellaneous Extractables (µg/L)				
Benzoic acid	20 U	20 U	20 U	20 U
Benzyl alcohol	2.0 U	2.0 U	2.0 U	2.0 U
Dibenzofuran	0.10 U	0.10 U	0.10 U	0.10 U

Table 5
Surface Water Results from Log Boom Park Shoreline and Lake Washington Reference Area

Location ID	HT-01	HT-04	HT-04	WS-10
Location Description	Log Boom Park Shoreline			Reference
Sample ID	HT-01-W-C- 121107	HT-04-W-C- 121107	HT-04-W-C-DUP- 121107	WS-10-W-C- 121107
Sample Date	11/7/2012	11/7/2012	11/7/2012	11/7/2012
Sample Depth	1 ft	0.5-1 ft	0.5-1 ft	3 ft
Hexachlorobutadiene	0.050 U	0.050 U	0.050 U	0.050 U
N-Nitrosodiphenylamine	1.0 U	1.0 U	1.0 U	1.0 U

Notes:

All non-detect data were reported at the **reporting limit**.

USEPA Stage 2A validation was performed by Anchor QEA on all compounds

Bold = Detected result

-- = results not reported or not applicable

ft = feet

ID = identification

J = estimated value

mg/L = milligrams per liter

µg/L = micrograms per liter

U = Compound analyzed, but not detected above detection limit

APPENDIX A

CHAIN-OF-CUSTODY FORMS AND DAILY LOGS (ON CD)

APPENDIX B

LAB DATA (ON CD)

APPENDIX C

DATA VALIDATION REPORT (ON CD)

Health Consultation

Kenmore Area of Lake Washington and Sammamish River
Evaluation of Sediment, Surface Water, and Groundwater
King County, Washington

June 27, 2013

Prepared by

The Washington State Department of Health
Under a Cooperative Agreement with the
Agency for Toxic Substances and Disease Registry



Foreword

The Washington State Department of Health (DOH) has prepared this health consultation with funds from a cooperative agreement with the Agency for Toxic Substances and Disease Registry (ATSDR). ATSDR is part of the U.S. Department of Health and Human Services and is the principal federal public health agency responsible for health issues related to hazardous substances.

The purpose of a health consultation is to assess the health threat posed by hazardous substances in the environment. If needed, a health consultation will also recommend steps or actions to protect public health. Health consultations are initiated in response to health concerns raised by residents or agencies about exposure to hazardous substances.

This health consultation was prepared in accordance with ATSDR methodologies and guidelines. However, the report has not been reviewed and cleared by ATSDR. The findings in this report are relevant to conditions at the site during the time the report was written. It should not be relied upon if site conditions or land use changes in the future.

Use of trade names is for identification only and does not imply endorsement by state or federal health agencies.

For additional information, please call us toll free at 1-877-485-7316 or visit our web site at <http://www.doh.wa.gov/consults>

For persons with disabilities this document is available on request in other formats. To submit a request, please call 1-800-525-0127 (voice) or 1-800-833-6388 (TTY/TDD).

For more information about ATSDR, contact the CDC Information Center at 1-800-CDC-INFO (1-800-232-4636) or visit the agency's Web site: www.atsdr.cdc.gov.

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Summary

Introduction

The Washington State Department of Health (DOH) prepared this health consultation to address the concerns raised by some members of the Kenmore community. They are concerned about swimmers and boaters potential exposure to contaminated sediments at two public access areas in Kenmore, King County, Washington: Log Boom Park at the north end of Lake Washington and the motor boat launch area near the mouth of the Sammamish River. The community members are also concerned that swimmers and boaters might be exposed to contaminated sediments in three areas with limited public access in the Kenmore area: the navigation channel, Harbour Village Marina, and sediments and groundwater near the Kenmore Industrial Park (KIP) site. DOH prepared this health consultation under a cooperative agreement with the Agency for Toxic Substances and Disease Registry (ATSDR).

DOH reached two important conclusions about sediment, groundwater, and surface water:

Conclusion 1

Touching, breathing, or accidentally eating sediment from public access areas, as well as areas with limited public access, is not expected to harm people's health.

Basis for Decision

Public access areas include Log Boom Park and the motor boat launch areas and limited public access areas included Kenmore Harbor, Kenmore Navigation Channel, Sammamish Navigation Channel, Harbour Village Marina, and KIP. The levels of contaminants found in sediments are below levels of health concern. Exposure to sediments in these areas is not expected to cause non-cancer health effects. The estimated cancer risk associated with exposure to the sediments is considered low to insignificant and is based on lifetime exposures (72 to 78 years). Cancer risks are estimated and should not be taken to represent actual or likely risks for the public. The risks could be as low as zero.

Conclusion 2

Swimming or accidentally ingesting groundwater discharging from the KIP site or surface water tested by the City of Kenmore near Log Boom Park is not expected to harm people's health.

Basis for Decision

The maximum level of contaminants found in groundwater at the edge of the KIP site and surface water near Log Boom Park pose an insignificant cancer risk and are not expected to cause non-cancer health effects.

Next Steps

DOH will provide copies of this health consultation to the following:

- City of Kenmore
- Washington State Department of Ecology
- City of Lake Forest Park
- Washington State Department of Transportation
- Washington State Department of Fish and Wildlife
- Washington State Department of Natural Resources
- United States Army Corps of Engineers
- Public Health Seattle and King County
- Kenmore Industrial Park
- Harbour Village Marina
- North Lake Marina
- 41st Legislative District Delegation: Senator David Frockt; Representative Jessyn Farrell; Representative Gerry Pollet
- Community repositories for the public health consultation and related fact sheets will be established at the following:
 - Kenmore Public Library; 6531 NE 181 Street; Kenmore, Washington 425-486-8747
 - DOH web site –<http://www.doh.wa.gov/consults>

For More Information

If you have any questions about this health consultation contact Lenford O'Garro 360-236-3376, Barbara Trejo 360-236-3373, or 1-877-485-7316 at Washington State Department of Health. For more information about ATSDR, contact the Center for Disease Control and Prevention (CDC) Information Center at 1-800-CDC-INFO (1-800-232-4636) or visit the agency's web site at www.atsdr.cdc.gov.

Purpose and Statement of Issues

The Washington State Department of Health (DOH) prepared this health consultation to address the concerns raised by some members of the Kenmore community. They are concerned about swimmers and boaters potential exposure to contaminated sediments at two public access areas in Kenmore, King County, Washington: Log Boom Park at the north end of Lake Washington and the motor boat launch area near the mouth of the Sammamish. The community members are also concerned that swimmers and boaters might be exposed to contaminated sediments in three areas with limited public access in the Kenmore area: the navigation channel, Harbour Village Marina, and sediments and groundwater near the Kenmore Industrial Park (KIP) site. DOH prepared this health consultation under a cooperative agreement with the Agency for Toxic Substances and Disease Registry (ATSDR).

Site Background

The City of Kenmore is located on the northern end of Lake Washington (Figure 1). The Sammamish River flows through Kenmore and enters Lake Washington adjacent to the KIP site (Figure 2). Historically, activities in the area consisted of lumber shipping and log booming. Past sediment testing indicates the presence of dioxins/furans (dioxins), polychlorinated biphenyls (PCBs), metals, and other contaminants [1].

Current commercial and industrial activities identified in the Kenmore area of Lake Washington include recreational marinas, commercial float plane operations, maritime operations, and concrete and asphalt batch plant. Residential and recreational properties (e.g. park and boat launch) are also located in the area.

The KIP site is an active 45-acre industrial property. In the past, the property was used as a demolition debris landfill [1, 2]. There have been reports that hazardous wastes were disposed in the landfill. However, environmental investigations conducted at the site have not confirmed this. The western fourteen acres of this property are currently being used for constructing anchors, bridge deck, and other components for the State Route (SR) 520 Bridge Replacement Project.

The City of Kenmore (City) and Washington State Department of Ecology (Ecology) conducted sediment sampling at public access areas and near the KIP site in November 2012 in response to community concerns. This sampling was added to an existing plan for sediment sampling in the Kenmore Navigation Channel, which is a U.S. Army Corps of Engineers (USACE) facility. The navigation channel sampling was being planned, in order to evaluate the sediment conditions for potential maintenance dredging that would be conducted by the USACE. Limited surface water sampling was also conducted during this time. Prior to the sampling, DOH participated in some of the City and Ecology planning meetings and discussions. DOH also reviewed and provided input on the draft sampling and analysis plan [3]. The public was also provided an opportunity to review and comment on the plan.

Community Health Concerns

Several community members are concerned that swimmers and boaters could potentially be exposed to contaminated sediments at the following public access areas:

- Log Boom Park,
- Harbour Village Marina, and
- Motor boat launch area near the mouth of the Sammamish River below the Juanita Drive – 68th Avenue NE bridge.

They are also concerned about potential swimmer and boater exposure to contaminated sediments in Lake Washington and mouth of the Sammamish River near the navigation channel and near the KIP site. Additionally, concerns were raised about potential exposure to contaminated groundwater discharging from the KIP site.

Sample Collection and Analysis

The City of Kenmore and Ecology conducted sediment sampling in northeast Lake Washington and Sammamish River in areas identified in the sampling and analysis plan in November 2012^a. Limited surface water sampling was also conducted near Log Boom Park [1].

In public access areas, sediment grab samples or hand trowel samples were collected from depths of 0 to 10 centimeter (cm). Sediment core samples from the navigation channel were collected from 0 to 25 cm^b. Surface water from Lake Washington was collected from 0.5 to 3 feet below surface [1]. Groundwater sampling was done at the KIP site in October 2012.

Sediment, surface water, and groundwater samples were analyzed for semivolatile organic compounds (SVOCs) and metals [1, 4]. Sediments were also analyzed for some volatile organic compounds (as part of the SVOC's using EPA Method 8270 and EPA Method 8081), tributyltins, pesticides, PCBs (aroclor), and dioxins [1, 4]. Appendix B, Tables B1 - B9 provides a summary of the detected and non-detected chemical results for each location evaluated in this health consultation report [4].

For more information about sample collection and processing methods, please refer to the sampling and analysis plan, Kenmore Sediment and Water Characterization [1]. Methods, results, and data validation are summarized in Ecology's Kenmore Area Sediment & Water Characterization Environmental Evaluation Report, publication #13-09-174.

^a Sediment samples were also collected at North Lake Marina, Creek 0056, and Lyon Creek Park in Lake Forest Park. These results were not included in this health consultation report because Lyon Creek Park is located outside of City of Kenmore and no public access is available at North Lake Marina or the portion of Creek 0056 where the sediment samples were collected.

^b The sediment testing in the navigation channel is intended to support the City's ongoing work with the U.S. Army Corps of Engineers (USACE) to support a request for federal funding for USACE maintenance dredging Channel (Figure 2).

Figure 1. Washington State map showing location of Kenmore, King County, Washington.



Figure 2. Area map of Kenmore sample collection location on Lake Washington, King County, Washington.



Discussion

Contaminants were found in sediment and water samples. Exposure to these chemicals can occur through:

- Ingestion (accidentally swallowing water or eating contaminated sediment),
- Inhalation (breathing in contaminated sediment or water), and
- Dermal contact (skin contact with contaminated sediment or water).

However, there are many factors that determine if an exposure will cause health effects. These factors include:

- Dose (how much),
- Duration (how long), and
- How someone comes in contact with the chemicals (touching, ingesting, or breathing in the chemical).

A person's age and the number of chemicals they are exposed to are a few other factors that may determine if exposure will cause health effects.

The following exposure routes were evaluated for this health consultation:

- Water Exposure Scenario: Accidental water ingestion and dermal absorption of contaminants in water when wading or swimming.
- Sediment Exposure Scenario: Accidental sediment ingestion and dermal absorption of contaminants in sediment when wading or inhalation of dust particles along the shoreline.

Contaminants of Concern

To identify chemicals that might be of health concern or contaminants of concern (COC), DOH compared the maximum level of each chemical to ATSDR health-based comparison values (CVs) (Appendix B, Tables B1 to B9). COC in sediment or water below CVs are levels of chemicals that are unlikely to result in adverse health effect. This is done to be protective of the most sensitive individuals (e.g., children or pregnant women). It is also done to account for our lack of certainty regarding the adverse health effects of low levels of chemical exposure. When a chemical was noted as below a detection limit, DOH used the detection limit when comparing the chemical to the CV.

Several types of ATSDR CVs are used during this process, cancer risk evaluation guide (CREG), environmental media evaluation guide (EMEG), and reference dose media evaluation guide (RMEG). Soil and water CVs in this health consultation represent residential exposures, which occur more often than recreational exposures. DOH uses CVs because they offer a high degree of protection. Therefore, DOH does not expect chemicals below the CV to pose a health threat. When these ATSDR CVs are not available, comparisons are made with other health-based standards including the Washington State Model Toxics Control Act (MTCA) cleanup levels or the U.S. Environmental Protection Agency's Regional Screening Levels (RSLs).

For this evaluation, when a chemical is present, but did not exceed the CV, no further evaluation of that chemical was necessary. When a chemical is found to be above a CV, or no health based CV is available, further evaluation of that chemical was performed. However, it is important to note that just because a chemical was found above the CV does not necessarily mean that adverse health effects will occur if people are exposed.

Dioxins and polycyclic aromatic hydrocarbons (PAHs) in sediment were the only two groups of compounds that exceeded their respective CVs (see Table 1) and are evaluated further below. Additionally, because two chemicals, calcium and magnesium (which are common minerals found in sediment and water) had no CV, they were also evaluated further.

Table 1. Summary of location-specific contaminants of concern, maximum concentrations detected in sediments, Kenmore, King County, Washington.

Location	Compounds	Maximum Concentration (ppm)	Comparison Value (ppm)	EPA Cancer Class	Comparison Value Reference	Contaminant of Concern (COC)
Log Boom Park	Total cPAH (BaP-EQ)	1.09	0.1	B2	CREG	Yes
Kenmore Navigation Channel	Total cPAH (BaP-EQ)	0.80	0.1	B2	CREG	Yes
Harbour Village Marina	Total cPAH (BaP-EQ)	1.23	0.1	B2	CREG	Yes
	Total Dioxin TEQ	7.1E-5	5.0E-5	B2	EMEG	
Kenmore Harbor	Total cPAH (BaP-EQ)	1.48	0.1	B2	CREG	Yes

ATSDR - Agency for Toxic Substances and Disease Registry

CREG - ATSDR's Cancer Risk Evaluation Guide (child)

EMEG - ATSDR's Environmental Media Evaluation Guide (child)

EPA - Environmental Protection Agency

B2 - EPA: Probable human carcinogen (inadequate human, sufficient animal studies)

Total Dioxin TEQ - sum of dioxin/furans toxic equivalent (TEQ)

cPAHs - Carcinogenic Polycyclic Aromatic Hydrocarbons

BaP-EQ - Benzo(a)pyrene Equivalents: sum of individual cPAHs multiplied by the relative potency factor (RPF) describing the carcinogenic potential relative to BaP.

PPM - parts per million

Water Exposure Scenario

Contact with water at the park or other areas is expected to be seasonal and to occur infrequently. Exposure to contaminants in water can occur primarily by swallowing it (ingestion exposure) or getting it on the skin (dermal exposure). However, inhalation of water is not considered a likely route of exposure because water droplets usually consist of relatively large particles that are trapped in the nose, mouth, and throat and are then swallowed rather than breathed into the lungs.

The chemical contaminants evaluated in the Lake Washington water samples collected for this study are below their respective drinking water ATSDR CVs or other drinking water screening

values. Additionally, DOH evaluated the same chemicals in KIP groundwater samples and found that they are also below their respective CVs (see Appendix B, Tables B1 and B2). Since surface water and groundwater contaminant levels are all below the CVs, these chemicals do not pose a health concern. As a result, no further assessment of exposure to surface water or groundwater is needed.

Sediment Exposure Scenario

Contact with sediments at the park and other areas where boaters and swimmers might come into contact with them are typically seasonal and occur infrequently. Exposure to contaminants in sediment can occur by swallowing it (ingestion exposure), breathing it (inhalation exposure), or getting it on the skin (dermal exposure).

Ingestion exposure (swallowing)

People may accidentally swallow small amounts of sediments when swimming or boating (and any contaminants they contain). Young children often put hands, toys, pacifiers, and other things in their mouths, and these may have sediment on them that can be swallowed.

Inhalation exposure (breathing)

Although people can inhale suspended sediment, it usually consists of relatively large particles that are trapped in the nose, mouth, and throat and are then swallowed rather than breathed into the lungs. As a result, inhalation is not considered a route of exposure.

Dermal exposure (skin)

Sediment particles that can adhere to the skin may cause additional exposure to contaminants through dermal absorption. Although human skin is an effective barrier for many environmental contaminants, some chemicals can move easily through the skin.

The following evaluation addresses dioxins and carcinogenic polycyclic aromatic hydrocarbons (cPAHs) as contaminants of potential concern (COCs) in sediments (see Table 1 and Appendix B, Tables B3 – B9). Standard human health assessment for cancer and non-cancer risk was carried out using the formulas in Appendix C and results are shown in Tables C3 and C5.

The major direct contact sediment exposures in this health consultation are expected to occur mainly along Log Boom Park. DOH used very conservative exposure assumptions for someone being exposed to the maximum concentration for a lifetime from a baby to 78 years. The assumptions used in calculating the non-cancer and cancer risk estimates in this health consultation are “conservative” (protective of health) to “extremely conservative” (highly protective of health). Therefore, cancer risks should not be taken to represent actual or likely risks for users to the site. Also, direct contact exposures to in-water or submerged sediment are unlikely or negligible (due to sediment washing off and sediment sample location or depth). However, in-water or submerged sediments were evaluated as if they were exposed beach sediments with the same “conservative” to “extremely conservative” assumptions for calculating risk estimates.

While dioxins and PAHs were found above their respective CVs, it is important to note that sediment samples from Kenmore Harbor (SG-14) and Kenmore Navigation Channel sediment were collected from the lake bottom under 15 feet or more of water. Similarly, sediment samples from Sammamish Navigation Channel were collected offshore at 3 feet under water and Harbour Village Marina sediment samples were collected from the lake bottom under 4 feet or more of water. Sediment samples from near the Kenmore Industrial Park were collected from 1.9 feet to 10 feet below water. Submerged or in-water sediments, like these, are not considered to be a direct contact (i.e., ingestion and dermal contact) exposure risk for humans. This is because of their location and depth in the lake, and the water will wash off sediments that get on the skin. Additionally, these areas consist of active boat docks and boat navigation channels; therefore, it is unlikely that there is a completed route of exposure to people. However, in the event there is a completed route of exposure to people (someone diving to depth and collecting sediment barehanded), dioxins and cPAHs were conservatively evaluated the same way as the public access areas (see Table 1).

Dioxins and Furans

Dioxins and furans (dioxins) consist of congeners, which differ in the number and location of chlorine atoms on the chemical structure. The primary sources of dioxin releases to the environment are from burning fossil fuels and wood during the incineration of municipal, medical, and hazardous waste. They also are the result of certain pulp and paper processes. Dioxins also occur at very low levels from naturally occurring sources and can be found in food, water, air, and cigarette smoke.

2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) is the most toxic of the dioxin congeners and can cause chloracne (a condition of acne like lesions on the face and neck) at high levels. Exposure to high levels of dioxins can also cause liver damage, developmental effects, and impaired immune function [5]. Long-term exposure to dioxins could increase the likelihood of developing cancer. Studies in rats and mice exposed to TCDD resulted in thyroid and liver cancer [6]. EPA considers TCDD to be a probable human carcinogen and developed a cancer slope factor of 1.5×10^5 per mg/kg/day [7, 8].

Although several dioxin and furan congeners were analyzed, only a single value, called a dioxin Toxic Equivalent (TEQ) is used in this health consultation. The TEQ approach is based on the premise that many dioxins/furans are structurally and toxicologically similar to 2,3,7,8-tetrachlorodibenzo-p-dioxin. Each dioxin/furan is multiplied by a Toxic Equivalency Factor (TEF) then added together to equal dioxin TEQ. TEFs are used to account for the different potency of dioxins and furans relative to 2,3,7,8-tetrachlorodibenzo-p-dioxin and are available for ten chlorinated dibenzofurans and seven chlorinated dibenzodioxins using the World Health Organization (WHO) methodology [9,10]. The TEQs for each chemical are then summed to give the overall 2,3,7,8-tetrachlorodibenzo-p-dioxin TEQ.

Polycyclic Aromatic Hydrocarbons (PAHs)

Polycyclic aromatic hydrocarbons (PAHs) are generated by the incomplete burning of organic matter, including oil, wood, and coal. They are found in materials such as creosote, coal, coal

tar, and used motor oil. Based on structural similarities, metabolism, and toxicity, PAHs are often grouped together when evaluating their potential for adverse health effects. EPA has classified some PAHs as probable human carcinogens (B2), called carcinogenic polycyclic aromatic hydrocarbons (cPAHs) as a result of sufficient evidence of carcinogenicity in animals and inadequate evidence in humans [11].

Dietary sources make up a large percentage of PAH exposure in the U.S. population. Smoked or barbecued meats and fish contain relatively high levels of PAHs. The majority of dietary exposure to PAHs for the average person comes from eating vegetables and grains (cereals)[12].

Non -carcinogenic polycyclic aromatic hydrocarbons (PAHs)

Non-cancer adverse health effects associated with PAH exposure has been observed in animals, but generally not in humans (with the exception of effects to the skin and blood) [11]. The skin is prone to PAH effects in both humans and animals. Because the observed effect level for carcinogenic endpoints is much lower than that of the non-cancer endpoints, it is routine to focus on the potential cancer effects of PAHs instead.

Carcinogenic polycyclic aromatic hydrocarbons (cPAHs)

Benzo(a)pyrene (BaP) is the only cPAH for which EPA has derived a cancer slope factor. In a manner similar to deriving the toxic equivalent (TEQ) for dioxin/furan compounds, each cPAH found in the sediment is multiplied by a Relative Potency Factor (RPF) based on BaP (Appendix C, Table C2) [11, 13, 14]. The RPF approach is based on the weight-of-evidence for carcinogenicity and the premise that many cPAHs are structurally and toxicologically similar to BaP. Products of each congener multiplied by its RPF are summed to equal the Benzo(a)pyrene relative potency equivalent (BaP-EQ).

Calcium, Magnesium

Calcium and magnesium are essential nutrients and are typically not harmful under most environmental exposure scenarios [15]. Therefore, no public health standards have been established for calcium and magnesium in drinking water. However, the Institute of Medicine has established Dietary Reference Intakes for elements [16]. DOH calculated an average daily intake for calcium and magnesium by multiplying the maximum level of the element in water by the amount of water ingested per day 1.4 liters (conservative drinking water default value). This was then compared to the Dietary Reference Intakes for that element.

Calcium

The maximum level of calcium detected in the surface water was 15,000 parts per billion (ppb). In a worst-case scenario, a person drinking 1.4 liters of water a day with the maximum level of calcium would obtain 21 mg/day of calcium. The Adequate Intakes for calcium from the Dietary Reference Intakes table range from 210 - 1,300 mg/day, depending on age and gender [15].

Magnesium

The maximum level of magnesium detected in the surface water was 5,060 ppb. In a worst-case scenario, a person drinking 1.4 liters of water a day with the maximum level of magnesium would obtain 7.08 mg/day of magnesium. The Recommended Dietary Allowances for magnesium from the Dietary Reference Intakes table range from 80 - 420 mg/day, depending on age and gender [15].

Calcium and magnesium are essential nutrients. Concentrations of these chemicals are well below levels expected to cause health effects and will not be evaluated further.

Evaluating Non-cancer Hazards

Assumptions for estimating exposure to contaminant doses from sediment are found in Appendix B, Table B1. In order to evaluate the potential for *non-cancer* adverse health effects a dose is estimated for each contaminant of concern (COC). Dioxin was the only non-cancer COC exceeding the screening value. A dioxin estimated dose was then compared to the minimum risk level (MRL). MRLs are an estimate of the daily human exposure to a substance that has no appreciable risk of adverse health effects during a specified duration of exposure. MRLs are derived from observed effect levels obtained from human population and laboratory animal studies. These observed effect levels can be either the lowest-observed adverse effect level (LOAEL) or a no-observed adverse effect level (NOAEL). In human or animal studies, the LOAEL is the lowest dose at which an adverse health effect is seen, while the NOAEL is the highest dose that does not result in any adverse health effects.

Because of uncertainty in these data, the toxic effect level is divided by “uncertainty factors” to produce the lower and more protective MRL. If a dose exceeds the MRL, it does not mean that adverse health effects will occur, it just means further toxicological and exposure evaluation is needed. Further evaluation includes comparing the site-specific estimated dose to doses from animal and human studies that showed either an effect level or a no effect level. This comparison, combined with other toxicological information, such as sensitive groups and chemical metabolism, is used to determine the risk of specific harmful effects. A MRL is exceeded whenever the Hazard Quotient (HQ) is greater than one (See Appendix C for the hazard quotient equation).

Estimated exposure doses, exposure assumptions, and hazard quotients are presented in Appendix C for COCs found in sediment. Based on exposure estimates quantified in Appendix C Table C1, people accidentally eating or touching sediment from the study area are not likely to experience adverse non-cancer health effects. An exposure dose based on the maximum level of dioxin in sediment at this site (the maximum level was found under more than 4 feet of water) for 15 days per year (1.12×10^{-11}) did not exceed the chronic MRL of 1.0×10^{-9} mg/kg/day. Since exposure estimates using the maximum concentrations were lower than the chronic MRL, DOH does not expect that exposure to dioxin in sediments could cause harmful non-cancer health effects. Also, direct contact exposures to in-water/submerged sediment dioxins are unlikely or negligible.

Evaluating Cancer Risk

Some chemicals have the ability to cause cancer. Cancer risk is estimated by calculating a dose similar to that described above and multiplying it by a cancer potency factor, also known as the cancer slope factor. Some cancer potency factors are derived from human population data. Others are derived from laboratory animal studies involving doses much higher than are encountered in the environment. Use of animal data requires extrapolation of the cancer potency obtained from these high dose studies down to real-world exposures. This process involves much uncertainty.

Current regulatory practice assumes there is no "safe dose" of a carcinogen. Any dose of a carcinogen will result in some additional cancer risk. Cancer risk estimates are, therefore, not yes/no answers but measures of chance (probability). Such measures, however uncertain, are useful in determining the magnitude of a cancer threat because any level of a carcinogenic contaminant carries an associated risk. The validity of the "no safe dose" assumption for all cancer-causing chemicals is not clear. Some evidence suggests that certain chemicals considered to be carcinogenic must exceed a threshold of tolerance before initiating cancer. For such chemicals, risk estimates are not appropriate. Recent guidelines on cancer risk from EPA reflect the potential that thresholds for some carcinogenesis exist. However, EPA still assumes no threshold unless sufficient data indicate otherwise [17].

This document describes estimated cancer risk that is attributable to site-related contaminants in qualitative terms like low, very low, slight, and insignificant in estimated cancer risk. These terms can be better understood by considering the population size required for such an estimate to result in a single cancer case. For example, a low increase in cancer risk indicates an estimate in the range of 1 cancer case per 10,000 persons similarly exposed over a lifetime. A very low estimate might result in one cancer case per several tens of thousands similarly exposed persons over a lifetime and a slight estimate would require an similarly exposed population of several hundreds of thousands to result in a single case. DOH considers estimated cancer risk insignificant when the estimate results in less than 1 cancer per 1,000,000 exposed over a lifetime. The reader should note that these estimates are for excess cancers that might result in addition to those normally expected in an unexposed population.

Cancer is a common illness and its occurrence in a population increases with the age of the population. There are many different forms of cancer resulting from a variety of causes; not all are fatal. Approximately 1 in 3 to 1 in 2 people living in the United States will develop cancer at some point in their lives [18].

Estimated Cancer Risk

Estimated cancer risk does not reach zero no matter how low the level of exposure to a carcinogen. Terms used to describe this risk are defined below as the number of excess cancers expected in a lifetime:

<u>Term</u>		<u># of Excess Cancers</u>
moderate	is approximately equal to	1 in 1,000
low	is approximately equal to	1 in 10,000
very low	is approximately equal to	1 in 100,000
slight	is approximately equal to	1 in 1,000,000
insignificant	is less than	1 in 1,000,000

The assumptions used in calculating the cancer risk estimates in this health consultation are “conservative” (protective of health) to “extremely conservative” (highly protective of health). Therefore, cancer risks should not be taken to represent actual or likely risks for users to the site. Also, direct contact exposures to in-water or submerged sediment are unlikely or negligible. However, in-water or submerged sediments were evaluated as if they were exposed beach sediments.

Submerged or in-water sediments increased lifetime estimated cancer risk associated with 15 day exposure to the maximum concentration of cPAHs and dioxins in sediments is at Harbour Village Marina slight (2×10^{-6} or 2 in 1,000,000). As stated before, the major direct contact sediment exposures in this health consultation are expected to occur mainly along Log Boom Park. Increased lifetime estimated cancer risk associated with 30 day exposure at Log Boom Park to the maximum concentration of cPAHs in sediments is low to very low (5×10^{-6} or 5 in 1,000,000). The estimated cancer risk for a 120 day exposure at Log Boom Park to the maximum concentration of cPAHs in sediments is also low (2×10^{-5} or 2 in 100,000).

These estimates are within the range DOH considers acceptable risk. That range is 1 excess cancer case per 10,000 people exposed to 1 excess cancer case per 1,000,000 people exposed (1×10^{-4} to 1×10^{-6}) in these scenarios. EPA uses this target range of risk as part of their decision making process to determine if action is warranted. *Therefore, DOH does not expect that exposure to cPAHs and dioxin in sediment will cause harmful cancer health effects to people.*

Child Health Considerations

The potential for exposure and subsequent adverse health effects often increases for younger children compared with older children or adults. ATSDR and DOH recognize that children are susceptible to developmental toxicity that can occur at levels much lower than those causing other types of toxicity. The following factors contribute to this vulnerability:

- Children are more likely to play outdoors in contaminated areas by disregarding signs and wandering onto restricted locations.
- Children often bring food into contaminated areas, resulting in hand-to-mouth activities.
- Children are smaller and receive higher doses of contaminant exposures per body weight.
- Fetal and child exposure to contaminants can cause permanent damage during critical growth stages.

These unique vulnerabilities of infants and children demand special attention in communities that have contaminated water, food, soil, or air. Children’s health was considered in the writing of this health consultation and the exposure scenarios treated children as the most sensitive population being exposed. The doses calculated for the COCs are not expected to result in adverse health effects for children.

Conclusions

1. Touching, breathing, or accidentally eating sediment from public access areas, as well as areas with limited public access, is not expected to harm people's health. Public access areas included Log Boom Park and the motor boat launch areas and limited public access areas included Kenmore Harbor, Kenmore Navigation Channel, Sammamish Navigation Channel, Harbour Village Marina, and KIP. The levels of contaminants found in sediments are below levels of health concern. Exposure to sediments in these areas is not expected to cause non-cancer health effects. The estimated cancer risk associated with exposure to the sediments is considered low to insignificant and is based on lifetime exposures (72 to 78 years). Cancer risks are estimated and should not be taken to represent actual or likely risks for the public. The risks could be as low as zero.
2. Swimming or accidentally ingesting groundwater discharging from the KIP site or surface water tested by the City of Kenmore near Log Boom Park is not expected to harm people's health. The maximum level of contaminants found in groundwater at the edge of the KIP site and surface water near Log Boom Park pose an insignificant cancer risk and are not expected to cause non-cancer health effects.

Public Health Action Plan

Actions Planned

DOH will provide copies of this health consultation to the following:

- City of Kenmore
- Washington State Department of Ecology
- City of Lake Forest Park
- Washington State Department of Transportation
- Washington State Department of Fish and Wildlife
- Washington State Department of Natural Resources
- United States Army Corps of Engineers
- Public Health Seattle and King County
- Kenmore Industrial Park
- Harbour Village Marina
- North Lake Marina
- 41st Legislative District Delegation: Senator David Frockt; Representative Jessyn Farrell; Representative Gerry Pollet
- Community repositories for the public health consultation and related fact sheets will be established at the following:
 - Kenmore Public Library; 6531 NE 181 Street; Kenmore, Washington 425-486-8747
 - DOH web site – www.doh.wa.gov/consults

Report Preparation

This Health Consultation for the City of Kenmore Sediment Project on Lake Washington was prepared by the Washington State Department of Health (DOH) under a cooperative agreement with the federal Agency for Toxic Substances and Disease Registry (ATSDR). It is in accordance with the approved agency methods, policies, and procedures existing at the date of publication. Editorial review was completed by the cooperative agreement partner. This report was supported by funds from a cooperative agreement with the Agency for Toxic Substances and Disease Registry, U.S. Department of Health and Human Services. This document has not been reviewed and cleared by ATSDR.

Site Team

Author

Lenford O'Garro, Toxicologist

State Reviewers

Joanne Snarski, Principal Investigator

Barbara Trejo, Health Assessor, Hydrogeologist

Erin Kochaniewicz, Public Health Educator

Marilyn Hanna, Administrative Personnel

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Appendix A Glossary

Agency for Toxic Substances and Disease Registry (ATSDR)	The principal federal public health agency involved with hazardous waste issues, responsible for preventing or reducing the harmful effects of exposure to hazardous substances on human health and quality of life. ATSDR is part of the U.S. Department of Health and Human Services.
Cancer Risk Evaluation Guide (CREG)	The concentration of a chemical in air, soil, or water that is expected to cause no more than one excess cancer in a million persons exposed over a lifetime. The CREG is a <i>comparison value</i> used to select contaminants of potential health concern and is based on the <i>cancer slope factor</i> (CSF).
Cancer Slope Factor (CSF)	A number assigned to a cancer causing chemical that is used to estimate its ability to cause cancer in humans.
Carcinogen	Any substance that causes cancer.
Chronic	Occurring over a long time (more than 1 year) [compare with acute].
Comparison Value (CV)	Calculated concentration of a substance in air, water, food, or soil that is unlikely to cause harmful (adverse) health effects in exposed people. The CV is used as a screening level during the public health assessment process. Substances found in amounts greater than their CVs might be selected for further evaluation in the public health assessment process.
Contaminant	A substance that is either present in an environment where it does not belong or is present at levels that might cause harmful (adverse) health effects.
Dermal Contact	Contact with (touching) the skin (see route of exposure).
Dose (for chemicals that are not radioactive)	The amount of a substance to which a person is exposed over some time period. Dose is a measurement of exposure. Dose is often expressed as milligram (amount) per kilogram (a measure of body weight) per day (a measure of time) when people eat or drink contaminated water, food, or soil. In general, the greater the dose, the greater the likelihood of an effect. An “exposure dose” is how much of a substance is encountered in the environment. An “absorbed dose” is the amount of a substance that actually got into the body through the eyes, skin, stomach, intestines, or lungs.

Environmental Media Evaluation Guide (EMEG)	A concentration in air, soil, or water below which adverse non-cancer health effects are not expected to occur. The EMEG is a comparison value used to select contaminants of potential health concern and is based on ATSDR's minimal risk level (MRL).
Environmental Protection Agency (EPA)	United States Environmental Protection Agency.
Epidemiology	The study of the occurrence and causes of health effects in human populations. An epidemiological study often compares two groups of people who are alike except for one factor, such as exposure to a chemical or the presence of a health effect. The investigators try to determine if any factor (i.e., age, sex, occupation, economic status) is associated with the health effect.
Exposure	Contact with a substance by swallowing, breathing, or touching the skin or eyes. Exposure may be short-term [acute exposure], of intermediate duration, or long-term [chronic exposure].
Groundwater	Water beneath the earth's surface in the spaces between soil particles and between rock surfaces [compare with surface water].
Hazardous Substance	Any material that poses a threat to public health and/or the environment. Typical hazardous substances are materials that are toxic, corrosive, ignitable, explosive, or chemically reactive.
Ingestion	The act of swallowing something through eating, drinking, or mouthing objects. A hazardous substance can enter the body this way [see route of exposure].
Ingestion Rate (IR)	The amount of an environmental medium that could be ingested typically on a daily basis. Units for IR are usually liter/day for water, and mg/day for soil.
Inhalation	The act of breathing. A hazardous substance can enter the body this way [see route of exposure].
Inorganic	Compounds composed of mineral materials, including elemental salts and metals such as iron, aluminum, mercury, and zinc.
Lowest Observed Adverse Effect Level (LOAEL)	The lowest tested dose of a substance that has been reported to cause harmful (adverse) health effects in people or animals.

Maximum Contaminant Level (MCL)	A drinking water regulation established by the federal Safe Drinking Water Act. It is the maximum permissible concentration of a contaminant in water that is delivered to the free flowing outlet of the ultimate user of a public water system. MCLs are enforceable standards.
Media	Soil, water, air, plants, animals, or any other part of the environment that can contain contaminants.
Minimal Risk Level (MRL)	An ATSDR estimate of daily human exposure to a hazardous substance at or below which that substance is unlikely to pose a measurable risk of harmful (adverse), noncancerous effects. MRLs are calculated for a route of exposure (inhalation or oral) over a specified time period (acute, intermediate, or chronic). MRLs should not be used as predictors of harmful (adverse) health effects [see reference dose].
Model Toxics Control Act (MTCA)	The hazardous waste cleanup law for Washington State.
No Observed Adverse Effect Level (NOAEL)	The highest tested dose of a substance that has been reported to have no harmful (adverse) health effects on people or animals.
Oral Reference Dose (RfD)	An amount of chemical ingested into the body (i.e., dose) below which health effects are not expected. RfDs are published by EPA.
Organic	Compounds composed of carbon, including materials such as solvents, oils, and pesticides that are not easily dissolved in water.
Parts per billion (ppb)/Parts per million (ppm)	Units commonly used to express low concentrations of contaminants. For example, 1 ounce of trichloroethylene (TCE) in 1 million ounces of water is 1 ppm. 1 ounce of TCE in 1 billion ounces of water is 1 ppb. If one drop of TCE is mixed in a competition size swimming pool, the water will contain about 1 ppb of TCE.
Reference Dose Media Evaluation Guide (RMEG)	A concentration in air, soil, or water below which adverse non-cancer health effects are not expected to occur. The EMEG is a <i>comparison value</i> used to select contaminants of potential health concern and is based on EPA's oral reference dose (RfD).
Route of Exposure	The way people come into contact with a hazardous substance. Three routes of exposure are breathing [inhalation], eating or drinking [ingestion], or contact with the skin [dermal contact].

Surface Water	Water on the surface of the earth, such as in lakes, rivers, streams, ponds, and springs [compare with groundwater].
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Appendix B Screening Value Calculations

Table B1. Range of chemical concentrations detected in surface water from Lake Washington in Kenmore, King County, Washington.

Compounds	Range of Concentration (ppb)	Comparison Value (ppb)	EPA Cancer Class	Comparison Value Reference	Contaminant of Concern (COC)
Antimony	0.2 U – 1 U	4		RMEG	No
Arsenic	0.9 – 2	3	A	EMEG	No
Barium	6.2 – 11	2,000	CN		No
Beryllium	0.2 U – 0.5 U	20	KL		No
Cadmium	0.2 U – 0.5	1	B1	EMEG	No
Calcium	10,200 – 15,000				No†
Chromium	0.5 U – 2 U	10 [†]	A	EMEG	No
Copper	1.6 – 2.8	100	D	IM EMEG	No
Iron	160 – 480	11,000		RSL	No
Lead	0.1 U – 0.5	15	B2	MCL	No
Magnesium	4,210 – 5,060				No†
Manganese	12.4 – 111	500	D	IM EMEG	No
Mercury	0.1 U – 0.1 U	3	D	RMEG	No
Nickel	0.7 – 2	200		RMEG	No
Selenium	0.5 U – 2 U	50	D	EMEG	No
Silver	0.2 U – 1 U	50	D	RMEG	No
Thallium	0.2 U – 1 U	2		MCL	No
Zinc	4 U – 6	3,000	D	EMEG	No
1,2,4-Trichlorobenzene	1 U – 1 U	1,000	D	EMEG	No
1,2-Dichlorobenzene	1 U – 1 U	3,000	D	EMEG	No
1,3-Dichlorobenzene	1 U – 1 U	200	D	IM EMEG	No
1,4-Dichlorobenzene	1 U – 1 U	700		EMEG	No
2,4-Dimethylphenol	3 U – 3 U	200		RMEG	No
2-Methylphenol	1 U – 1 U	200*	C	RMEG	No
4-Methylphenol	2 U – 2 U	200*	C	RMEG	No
Benzoic acid	20 U – 20 U	40,000	D	RMEG	No
Benzyl alcohol	2 U – 2 U	1,500		RSL	No
Bis(2-ethylhexyl)phthalate	3 U – 3 U	600	B2	EMEG	No
Butyl benzyl phthalate	1 U – 1 U	2,000	C	RMEG	No
Diethyl phthalate	1 U – 1 U	8,000	D	RMEG	No

Dimethyl phthalate	1 U – 1 U	1,000**		RMEG	No
Di-n-butyl phthalate	1 U – 1 U	1,000	D	RMEG	No
Di-n-octyl phthalate	1 U – 1 U	4,000		IM EMEG	No
Hexachlorobenzene	1 U – 1 U	1	B2	IM EMEG	No
Hexachlorobutadiene	0.05 U – 0.05 U	0.45	C	CREG	No
Hexachloroethane	2 U – 2 U	7	LC	RMEG	No
N-Nitrosodiphenylamine	1 U – 1 U	7.1	B2	CREG	No
Pentachlorophenol	0.025 U – 0.024 J	0.088	B2	CREG	No
Phenol	1 U – 1 U	3,000	D	RMEG	No
1-Methylnaphthalene	0.1 U – 0.1 U	700		EMEG	No
2-Methylnaphthalene	0.1 U – 0.1 U	400		EMEG	No
Acenaphthene	0.1 U – 0.1 U	400		RSL	No
Acenaphthylene	0.1 U – 0.1 U	3,000***	D	RMEG	No
Anthracene	0.1 U – 0.1 U	3,000	D	RMEG	No
Benzo(a)anthracene	0.1 U – 0.1 U	0.2	B2	MCL	No
Benzo(a)pyrene	0.1 U – 0.1 U	0.2	B2	MCL	No
Benzo (b)fluoranthene	0.1 U – 0.1 U	0.2	B2	MCL	No
Benzo (b,j,k)fluoranthene	0.2 U – 0.2 U	0.2	B2	MCL	No
Benzo(ghi)perylene	0.1 U – 0.1 U	3,000***	D	RMEG	No
Benzo (k)fluoranthene	0.1 U – 0.1 U	0.2	B2	MCL	No
Chrysene	0.1 U – 0.1 U	2.9	B2	RSL	No
Dibenzo(a,h)anthracene	0.1 U – 0.1 U	0.2	B2	MCL	No
Dibenzofuran	0.1 U – 0.1 U	5.8	D	RSL	No
Fluoranthene	0.1 U – 0.1 U	4,000	D	IM EMEG	No
Fluorene	0.1 U – 0.1 U	4,000	D	IM EMEG	No
Indeno(1,2,3-cd)pyrene	0.1 U – 0.1 U	0.2	B2	MCL	No
Naphthalene	0.1 U – 0.1 U	6,000	C	IM EMEG	No
Phenanthrene	0.1 U – 0.1 U	3,000***	D	RMEG	No
Pyrene	0.1 U – 0.1 U	300	D	RMEG	No

ATSDR - Agency for Toxic Substances and Disease Registry

CREG - ATSDR's Cancer Risk Evaluation Guide (child)

RMEG - ATSDR's Reference Dose Media Evaluation Guide (child)

EMEG - ATSDR's Environmental Media Evaluation Guide (child)

IM EMEG - ATSDR's Intermediate Environmental Media Evaluation Guide (child)

J - Estimated value

U - Compound analyzed, but not detected above detection limit

A - EPA: human carcinogen

B1 - EPA: Probable human carcinogen (limited human, sufficient animal studies)

B2 - EPA: Probable human carcinogen (inadequate human, sufficient animal studies)

C - EPA: Possible human carcinogen (no human, limited animal studies)

D - EPA: Not classifiable as to health carcinogenicity

LC - EPA: Likely to be carcinogenic to humans

KL - EPA: Known/Likely human carcinogen

RSL - EPA: Regional Screening Level

MCL - Maximum contaminant level - Federal and state drinking water standard

ppb - parts per billion

EPA - Environmental Protection Agency

† Assume hexavalent chromium

* 2,4-Dimethylphenol RMEG value was used as a surrogate

** 1,4- Dimethyl phthalate RMEG value was used as a surrogate

*** Anthracene RMEG value was used as a surrogate

† - See Public Health Implications section

Table B2. Range of chemical concentrations detected in groundwater at the Kenmore Industrial Park in Kenmore, King County, Washington.

Compounds	Range of Concentration (ppb)	Comparison Value (ppb)	EPA Cancer Class	Comparison Value Reference	Contaminant of Concern (COC)
Antimony	0.2 U – 0.49 U	4		RMEG	No
Arsenic	1 U – 1.96	3	A	EMEG	No
Barium	9.98 – 931	2,000	CN		No
Cadmium	0.02 U – 0.046	1	B1	EMEG	No
Chromium	5 U – 1.73	10 [†]	A	EMEG	No
Copper	0.23 – 1.73	100	D	IM EMEG	No
Lead	0.02 U – 1.97	15	B2	MCL	No
Mercury	0.05 U – 0.05 U	3	D	RMEG	No
Nickel	0.46 – 3.1	200		RMEG	No
Selenium	0.05 U – 0.5 U	50	D	EMEG	No
Silver	0.02 U – 0.024 J	50	D	RMEG	No
Zinc	10 U – 27.6	3,000	D	EMEG	No
1-Methylnaphthalene	0.1 U – 0.2	700		EMEG	No
2-Methylnaphthalene	0.1 U – 0.11	400		EMEG	No
Acenaphthene	0.64 – 2.2	400		RSL	No
Acenaphthylene	0.099 U – 0.1 U	3,000*	D	RMEG	No
Anthracene	0.099 U – 0.1 U	3,000	D	RMEG	No
Benzo(a)anthracene	0.01 U – 0.053	0.2	B2	MCL	No
Benzo(a)pyrene	0.01 U – 0.057	0.2	B2	MCL	No
Benzo (b)fluoranthene	0.01 U – 0.077	0.2	B2	MCL	No
Benzo (j,k)fluoranthene	0.01 U – 0.057	0.2	B2	MCL	No
Benzo(ghi)perylene	0.01 U – 0.071	3,000*	D	RMEG	No
Chrysene	0.01 U – 0.059	2.9	B2	RSL	No
Dibenzo(a,h)anthracene	0.01 U – 0.05 U	0.2	B2	MCL	No
Dibenzofuran	0.1 U – 0.1 U	5.8	D	RSL	No
Fluoranthene	0.099 U – 0.2	4,000	D	IM EMEG	No
Fluorene	0.29 U – 1	4,000	D	IM EMEG	No
Indeno(1,2,3-cd)pyrene	0.01 U – 0.055	0.2	B2	MCL	No
Naphthalene	0.1 U – 0.23	6,000	C	IM EMEG	No
Phenanthrene	0.099 U – 0.1 U	3,000*	D	RMEG	No
Pyrene	0.099 U – 0.15	300	D	RMEG	No
Diesel Range (TPH)	250 U – 280 U	500		MTCA	No
Oil Range (TPH)	400 U – 750 U	500		MTCA	No

ATSDR - Agency for Toxic Substances and Disease Registry
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EMEG - ATSDR's Environmental Media Evaluation Guide (child)
IM EMEG - ATSDR's Intermediate Environmental Media Evaluation Guide (child)
J - Estimated value
U - Compound analyzed, but not detected above detection limit or analyte was not detected at or above laboratory reporting limit
A - EPA: human carcinogen
B1 - EPA: Probable human carcinogen (limited human, sufficient animal studies)
B2 - EPA: Probable human carcinogen (inadequate human, sufficient animal studies)
C - EPA: Possible human carcinogen (no human, limited animal studies)
D - EPA: Not classifiable as to health carcinogenicity
RSL - EPA: Regional Screening Level
MCL - Maximum contaminant level - Federal and state drinking water standard
ppb - parts per billion
EPA - Environmental Protection Agency
† Assume hexavalent chromium
* Anthracene RMEG value was used as a surrogate
MTCA - Washington State Department of Ecology Model Toxics Control Act

Table B3. Range of chemical concentrations detected in sediment within Log Boom Park in Kenmore, King County, Washington.

Compounds	Range of Concentration (ppm)	Comparison Value (ppm)	EPA Cancer Class	Comparison Value Reference	Contaminant of Concern (COC)
Antimony	6 UJ – 10 UJ	20	D	RMEG	No
Arsenic	6 U – 10 U	15	A	EMEG	No
Cadmium	0.2 U – 0.5	5	B1	EMEG	No
Chromium	17.8 J – 27 J	150 [†]	A	RMEG	No
Copper	4.3 - 220	500	D	IM EMEG	No
Lead	4 - 16	250	B2	MTCA	No
Mercury	0.02 U – 0.23	1	D	MTCA	No
Nickel	20 – 36	1,000		RMEG	No
Selenium	0.6 U – 1 U	250	D	EMEG	No
Silver	0.4 U – 0.6U	250	D	RMEG	No
Zinc	34 - 69	15,000	D	EMEG	No
Tributyltin		15 ^{††}	CN	EMEG	No
1,2,4-Trichlorobenzene	0.018 U – 0.02 U	5,000	D	EMEG	No
1,2-Dichlorobenzene	0.018 U – 0.02 U	15,000		EMEG	No
1,3-Dichlorobenzene	0.018 U – 0.02 U	1,000	D	IM EMEG	No
1,4-Dichlorobenzene	0.018 U – 0.02 U	3,500		EMEG	No
2,4-Dimethylphenol	0.018UJ – 0.02UJ	1,000		RMEG	No
2-Methylphenol	0.016 J – 0.02 U	1,000*	C	RMEG	No
4-Methylphenol	0.016 J – 0.15	1,000*	C	RMEG	No
Benzoic acid	0.37 U – 0.39J	200,000	D	RMEG	No
Benzyl alcohol	0.018 U – 0.21	6,100		RSL	No
Bis(2-ethylhexyl)phthalate	0.016 J – 0.46	50	B2	CREG	No
Butyl benzyl phthalate	0.016 J – 0.065	10,000	C	RMEG	No
Diethyl phthalate	0.0046 U – 0.067	40,000	D	RMEG	No
Dimethyl phthalate	0.018 U – 0.02 U	5,000		RMEG	No
Di-n-butyl phthalate	0.018 U – 0.02 U	5,000	D	RMEG	No
Di-n-octyl phthalate	0.018 U – 0.02 U	20,000		IM EMEG	No
Hexachlorobenzene	0.018 U – 0.023	0.44	B2	CREG	No
Hexachlorobutadiene	0.01 UJ – 0.01 UJ	9	C	CREG	No
Hexachloroethane	0.018 U – 0.02 U	18	LC	CREG	No
N-Nitrosodiphenylamine	0.018 U – 0.02 U	140	B2	CREG	No
Pentachlorophenol	0.18 U – 0.2 U	1.8	B2	CREG	No
Phenol	0.01 J – 0.18	15,000	D	RMEG	No

1-Methylnaphthalene	0.0025 J – 0.083	3,500		EMEG	No
2-Methylnaphthalene	0.004 J – 0.19	2,000		EMEG	No
Acenaphthene	0.0031 J – 0.12	3,000		RMEG	No
Acenaphthylene	0.0034 J – 0.02	3,000**		RMEG	No
Anthracene	0.0038 J – 0.19	15,000	D	RMEG	No
Benzo(a)anthracene	0.0046 U – 0.33	1,500*** 0.15	B2	RMEG RSL	No Yes (cPAH)
Benzo(a)pyrene	0.0046 U – 0.21	1,500*** 0.096	B2	RMEG CREG	No Yes (cPAH)
Benzo (b,j,k)fluoranthene	0.038 U – 0.55 (0.12)	1,500*** 0.15 ^{†††}	B2	RMEG RSL	No Yes (cPAH)
Benzo(ghi)perylene	0.0032 J – 0.074	1,500***	D		No
Chrysene	0.0046 U – 0.48	1,500*** 15	B2	RMEG RSL	No Yes (cPAH)
Dibenzo(a,h)anthracene	0.0046 U – 0.023	1,500*** 0.096 ^{††††}		RMEG CREG	No Yes (cPAH)
Dibenzofuran	0.0046 U – 0.28	78	D	RSL	No
Fluoranthene	0.0043 J – 1.1	2,000	D	RMEG	No
Fluorene	0.0024 J – 0.23	2,000	D	RMEG	No
Indeno(1,2,3-cd)pyrene	0.0046 U – 0.069	1,500*** 0.15	B2	RMEG RSL	No Yes (cPAH)
Naphthalene	0.0046 U – 0.38	30,000	C	IM EMEG	No
Phenanthrene	0.0031 J – 0.86	1,500***	D		No
Pyrene	0.003 J – 0.74	1,500	D	RMEG	No
Total Aroclors	0.018 U – 0.028 J	1****		EMEG	No
Total cPAH (BaP-EQ)	1.09	0.1	B2	CREG	Yes
Total Dioxin TEQ	3.0E-7 J – 7.9E-6	5.0E-5	B2	EMEG	No

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RMEG - ATSDR's Reference Dose Media Evaluation Guide (child)

EMEG - ATSDR's Environmental Media Evaluation Guide (child)

IM EMEG - ATSDR's Intermediate Environmental Media Evaluation Guide (child)

J - Estimated value

U - Compound analyzed, but not detected above detection limit

UJ - Compound analyzed, but not detected above estimated detection limit

EPA - Environmental Protection Agency

A - EPA: human carcinogen

B1 - EPA: Probable human carcinogen (limited human, sufficient animal studies)

B2 - EPA: Probable human carcinogen (inadequate human, sufficient animal studies)

C - EPA: Possible human carcinogen (no human, limited animal studies)

CN - EPA: Carcinogenic potential cannot be determine

D - EPA: Not classifiable as to health carcinogenicity

LC - EPA: Likely to be carcinogenic to humans

RSL - EPA: Regional Screening Level

[†] Assume hexavalent chromium

^{††} Tributyltin oxide EMEG value was used as a surrogate

††† Benzo (b)fluoranthene carcinogenic EPA: Regional Screening Level value was used as a surrogate

†††† Benzo(a)pyrene CREG value was used as a surrogate

* 2,4-Dimethylphenol RMEG value was used as a surrogate

** Acenaphthene RMEG value was used as a surrogate

*** Pyrene RMEG value was used as a surrogate

**** Arocolor 1254 EMEG value was used as a surrogate

Total Dioxin TEQ – sum of dioxin/furans toxic equivalent (TEQ)

cPAHs – Carcinogenic Polycyclic Aromatic Hydrocarbons

BaP-EQ – Benzo(a)pyrene Equivalents: sum of individual cPAHs multiplied by the relative potency factor (RPF) describing the carcinogenic potential relative to BaP.

PPM – parts per million

BOLD values exceed comparison values

Table B4. Range of chemical concentrations detected in sediment within the motor boat launch in Kenmore, King County, Washington.

Compounds	Range of Concentration (ppm)	Comparison Value (ppm)	EPA Cancer Class	Comparison Value Reference	Contaminant of Concern (COC)
Antimony	6 UJ – 7 UJ	20	D	RMEG	No
Arsenic	6 U – 7 U	15	A	EMEG	No
Cadmium	0.3 – 0.4	5	B1	EMEG	No
Chromium	28.8 J – 29.6 J	150 [†]	A	RMEG	No
Copper	21.9 – 38.2	500	D	IM EMEG	No
Lead	7 - 11	250	B2	MTCA	No
Mercury	0.02 U – 0.03U	1	D	MTCA	No
Nickel	26 – 28	1,000		RMEG	No
Selenium	0.6 U – 0.7 U	250	D	EMEG	No
Silver	0.4 U – 0.4U	250	D	RMEG	No
Zinc	54 - 64	15,000	D	EMEG	No
1,2,4-Trichlorobenzene	0.018 U – 0.019 U	5,000	D	EMEG	No
1,2-Dichlorobenzene	0.018 U – 0.019 U	15,000		EMEG	No
1,3-Dichlorobenzene	0.018 U – 0.019 U	1,000	D	IM EMEG	No
1,4-Dichlorobenzene	0.018 U – 0.019 U	3,500		EMEG	No
2,4-Dimethylphenol	0.018 UJ – 0.019 UJ	1,000		RMEG	No
2-Methylphenol	0.018 U – 0.019U	1,000*	C	RMEG	No
4-Methylphenol	0.037 U – 0.038U	1,000*	C	RMEG	No
Benzoic acid	0.14 J – 0.37 U	200,000	D	RMEG	No
Benzyl alcohol	0.018 U – 0.023	6100		RSL	No
Bis(2-ethylhexyl)phthalate	0.072 – 0.13	50	B2	CREG	No
Butyl benzyl phthalate	0.019 U – 0.019	10,000	C	RMEG	No
Diethyl phthalate	0.0046 U – 0.048 U	40,000	D	RMEG	No
Dimethyl phthalate	0.097 – 0.97	5,000		RMEG	No
Di-n-butyl phthalate	0.017 J – 0.028	5,000	D	RMEG	No
Di-n-octyl phthalate	0.015 J – 0.018 U	20,000		IM EMEG	No
Hexachlorobenzene	0.018 U – 0.019U	0.44	B2	CREG	No
Hexachlorobutadiene	0.01 UJ – 0.01 UJ	9	C	CREG	No
Hexachloroethane	0.018 U – 0.019 U	18	LC	CREG	No
N-Nitrosodiphenylamine	0.018 U – 0.019 U	140	B2	CREG	No
Pentachlorophenol	0.18 U – 0.19 U	1.8	B2	CREG	No
Phenol	0.011 J – 0.018 U	15,000	D	RMEG	No
1-Methylnaphthalene	0.003 J – 0.0046 U	3,500		EMEG	No

2-Methylnaphthalene	0.0035 J – 0.0058	2,000		EMEG	No
Acenaphthene	0.0046 U – 0.0048 U	3,000		RMEG	No
Acenaphthylene	0.0046 U – 0.0048 U	3,000**		RMEG	No
Anthracene	0.0037 J – 0.0046 U	15,000	D	RMEG	No
Benzo(a)anthracene	0.0096 – 0.024	1,500*** 0.15	B2	RMEG RSL	No No
Benzo(a)pyrene	0.01 – 0.025	1,500*** 0.096	B2	RMEG CREG	No No
Benzo (b,j,k)fluoranthene	0.025 – 0.064	1,500*** 0.15 ^{†††}	B2	RMEG RSL	No No
Benzo(ghi)perylene	0.0069 – 0.024	1,500***	D		No
Chrysene	0.015 – 0.035	1,500*** 15	B2	RMEG RSL	No No
Dibenzo(a,h)anthracene	0.0038 J – 0.0046 U	1,500*** 0.096 ^{††††}		RMEG CREG	No No
Dibenzofuran	0.0046 U – 0.0048 U	78	D	RSL	No
Fluoranthene	0.028 – 0.063	2,000	D	RMEG	No
Fluorene	0.0032 J – 0.0042 J	2,000	D	RMEG	No
Indeno(1,2,3-cd)pyrene	0.0057 – 0.019	1,500*** 0.15	B2	RMEG RSL	No No
Naphthalene	0.0033 J – 0.0042 J	30,000	C	IM EMEG	No
Phenanthrene	0.011 – 0.048	1,500***	D		No
Pyrene	0.026 – 0.068	1,500	D	RMEG	No
Total Aroclors	0.017 U – 0.019 U	1****		EMEG	No
Total Dioxin TEQ	5.6E-7 J – 1.4E-6 J	5.0E-5	B2	EMEG	No

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CREG - ATSDR's Cancer Risk Evaluation Guide (child)

RMEG - ATSDR's Reference Dose Media Evaluation Guide (child)

EMEG - ATSDR's Environmental Media Evaluation Guide (child)

IM EMEG - ATSDR's Intermediate Environmental Media Evaluation Guide (child)

J - Estimated value

U - Compound analyzed, but not detected above detection limit

UJ - Compound analyzed, but not detected above estimated detection limit

EPA - Environmental Protection Agency

A - EPA: human carcinogen

B1 - EPA: Probable human carcinogen (limited human, sufficient animal studies)

B2 - EPA: Probable human carcinogen (inadequate human, sufficient animal studies)

C - EPA: Possible human carcinogen (no human, limited animal studies)

CN - EPA: Carcinogenic potential cannot be determine

D - EPA: Not classifiable as to health carcinogenicity

LC - EPA: Likely to be carcinogenic to humans

RSL - EPA: Regional Screening Level

[†] Assume hexavalent chromium

^{††} Tributyltin oxide EMEG value was used as a surrogate

††† Benzo (b)fluoranthene carcinogenic EPA: Regional Screening Level value was used as a surrogate

†††† Benzo(a)pyrene CREG value was used as a surrogate

* 2,4-Dimethylphenol RMEG value was used as a surrogate

** Acenaphthene RMEG value was used as a surrogate

*** Pyrene RMEG value was used as a surrogate

**** Arocolor 1254 EMEG value was used as a surrogate

Total Dioxin TEQ – sum of dioxin/furans toxic equivalent (TEQ)

cPAHs – Carcinogenic Polycyclic Aromatic Hydrocarbons

BaP-EQ – Benzo(a)pyrene Equivalents: sum of individual cPAHs multiplied by the relative potency factor (RPF) describing the carcinogenic potential relative to BaP.

PPM – parts per million

Table B5. Range of chemical concentrations detected in sediment within Kenmore Industrial Park shoreline in Kenmore, King County, Washington.

Compounds	Range of Concentration (ppm)	Comparison Value (ppm)	EPA Cancer Class	Comparison Value Reference	Contaminant of Concern (COC)
Antimony	6 UJ – 10 UJ	20	D	RMEG	No
Arsenic	6 UJ – 10 UJ	15	A	EMEG	No
Cadmium	0.2 U – 0.4 U	5	B1	EMEG	No
Chromium	20.9 – 54	150 [†]	A	RMEG	No
Copper	5.4 J – 13.5 J	500	D	IM EMEG	No
Lead	4 J – 7 J	250	B2	MTCA	No
Mercury	0.03 U – 0.04	1	D	MTCA	No
Nickel	20 – 34	1,000		RMEG	No
Selenium	0.6 U – 1 U	250	D	EMEG	No
Silver	0.4 U – 0.6U	250	D	RMEG	No
Zinc	43 J – 64 J	15,000	D	EMEG	No
Tributyltin	0.0036 U	15 ^{††}	CN	EMEG	No
1,2,4-Trichlorobenzene	0.019 U – 0.019 U	5,000	D	EMEG	No
1,2-Dichlorobenzene	0.019 U – 0.019 U	15,000		EMEG	No
1,3-Dichlorobenzene	0.019 U – 0.019 U	1,000	D	IM EMEG	No
1,4-Dichlorobenzene	0.019 U – 0.019 U	3,500		EMEG	No
2,4-Dimethylphenol	0.019 UJ – 0.019 UJ	1,000		RMEG	No
2-Methylphenol	0.019 U – 0.019U	1,000*	C	RMEG	No
4-Methylphenol	0.01 J – 0.27	1,000*	C	RMEG	No
Benzoic acid	0.37 U – 0.43	200,000	D	RMEG	No
Benzyl alcohol	0.019 U – 0.062	6,100		RSL	No
Bis(2-ethylhexyl)phthalate	0.019 J – 0.15	50	B2	CREG	No
Butyl benzyl phthalate	0.019 U – 0.019 U	10,000	C	RMEG	No
Diethyl phthalate	0.0047 U – 0.048 U	40,000	D	RMEG	No
Dimethyl phthalate	0.019 U – 0.038	5,000		RMEG	No
Di-n-butyl phthalate	0.019 U – 0.019 U	5,000	D	RMEG	No
Di-n-octyl phthalate	0.011 J – 0.019 U	20,000		IM EMEG	No
Hexachlorobenzene	0.00097 U – 0.019U	0.44	B2	CREG	No
Hexachlorobutadiene	0.01 UJ – 0.01 UJ	9	C	CREG	No
Hexachloroethane	0.019 U – 0.019 U	18	LC	CREG	No
N-Nitrosodiphenylamine	0.019 U – 0.019 U	140	B2	CREG	No
Pentachlorophenol	0.19 U – 0.19 U	1.8	B2	CREG	No

Phenol	0.019 U – 0.082	15,000	D	RMEG	No
1-Methylnaphthalene	0.0047 U – 0.0049 U	3,500		EMEG	No
2-Methylnaphthalene	0.0047 U – 0.0074	2,000		EMEG	No
Acenaphthene	0.0038 J – 0.0049 U	3,000		RMEG	No
Acenaphthylene	0.0047 U – 0.0049 U	3,000**		RMEG	No
Anthracene	0.0047 U – 0.011 J	15,000	D	RMEG	No
Benzo(a)anthracene	0.0046 J – 0.042	1,500***		RMEG	No
		0.15	B2	RSL	No
Benzo(a)pyrene	0.0029 J – 0.041	1,500***		RMEG	No
		0.096	B2	CREG	No
Benzo (b,j,k)fluoranthene	0.0082 – 0.091	1,500***		RMEG	No
		0.15 ^{†††}	B2	RSL	No
Benzo(ghi)perylene	0.0047 U – 0.027	1,500***	D		No
Chrysene	0.003 J – 0.064	1,500***		RMEG	No
		15	B2	RSL	No
Dibenzo(a,h)anthracene	0.0047 U – 0.0049 U	1,500***		RMEG	No
		0.096 ^{††††}		CREG	No
Dibenzofuran	0.0048 U – 0.0047	78	D	RSL	No
Fluoranthene	0.0011 J – 0.13	2,000	D	RMEG	No
Fluorene	0.0025 J – 0.0055	2,000	D	RMEG	No
Indeno(1,2,3-cd)pyrene	0.0047 U – 0.024	1,500***		RMEG	No
		0.15	B2	RSL	No
Naphthalene	0.004 J – 0.0047 U	30,000	C	IM EMEG	No
Phenanthrene	0.0026 J – 0.093	1,500***	D		No
Pyrene	0.0097 J – 0.12	1,500	D	RMEG	No
Total Aroclors	0.018 U – 0.019 U	1****		EMEG	No
Total Dioxin TEQ	3.6E-7 J – 2.3E-6 J	5.0E-5	B2	EMEG	No

ATSDR - Agency for Toxic Substances and Disease Registry

CREG - ATSDR's Cancer Risk Evaluation Guide (child)

RMEG - ATSDR's Reference Dose Media Evaluation Guide (child)

EMEG - ATSDR's Environmental Media Evaluation Guide (child)

IM EMEG - ATSDR's Intermediate Environmental Media Evaluation Guide (child)

J - Estimated value

U - Compound analyzed, but not detected above detection limit

UJ - Compound analyzed, but not detected above estimated detection limit

EPA - Environmental Protection Agency

A - EPA: human carcinogen

B1 - EPA: Probable human carcinogen (limited human, sufficient animal studies)

B2 - EPA: Probable human carcinogen (inadequate human, sufficient animal studies)

C - EPA: Possible human carcinogen (no human, limited animal studies)

CN - EPA: Carcinogenic potential cannot be determine

D - EPA: Not classifiable as to health carcinogenicity

LC - EPA: Likely to be carcinogenic to humans

RSL - EPA: Regional Screening Level

[†] Assume hexavalent chromium

^{††} Tributyltin oxide EMEG value was used as a surrogate

††† Benzo (b)fluoranthene carcinogenic EPA: Regional Screening Level value was used as a surrogate

†††† Benzo(a)pyrene CREG value was used as a surrogate

* 2,4-Dimethylphenol RMEG value was used as a surrogate

** Acenaphthene RMEG value was used as a surrogate

*** Pyrene RMEG value was used as a surrogate

**** Arocolor 1254 EMEG value was used as a surrogate

Total Dioxin TEQ – sum of dioxin/furans toxic equivalent (TEQ)

cPAHs – Carcinogenic Polycyclic Aromatic Hydrocarbons

BaP-EQ – Benzo(a)pyrene Equivalents: sum of individual cPAHs multiplied by the relative potency factor (RPF) describing the carcinogenic potential relative to BaP.

PPM – parts per million

Table B6. Range of chemical concentrations detected in sediment within Kenmore Navigation Channel in Kenmore, King County, Washington.

Compounds	Range of Concentration (ppm)	Comparison Value (ppm)	EPA Cancer Class	Comparison Value Reference	Contaminant of Concern (COC)
Antimony	6 U – 20 U	20	D	RMEG	No
Arsenic	6 U – 20 U	15	A	EMEG	No
Cadmium	0.3 – 0.8	5	B1	EMEG	No
Chromium	35 – 57	150 [†]	A	RMEG	No
Copper	14.6 – 43.6	500	D	IM EMEG	No
Lead	5 – 31	250	B2	MTCA	No
Mercury	0.02 U – 0.11	1	D	MTCA	No
Nickel	30 – 46	1,000		RMEG	No
Selenium	0.6 U – 2 U	250	D	EMEG	No
Silver	0.4 U – 1U	250	D	RMEG	No
Zinc	49 – 164	15,000	D	EMEG	No
1,2,4-Trichlorobenzene	0.019 U – 0.02 U	5,000	D	EMEG	No
1,2-Dichlorobenzene	0.019 U – 0.02 U	15,000		EMEG	No
1,3-Dichlorobenzene	0.019 U – 0.02 U	1,000	D	IM EMEG	No
1,4-Dichlorobenzene	0.019 U – 0.02 U	3,500		EMEG	No
2,4-Dimethylphenol	0.019 UJ – 0.02 UJ	1,000		RMEG	No
2-Methylphenol	0.019 U – 0.02 UJ	1,000*	C	RMEG	No
4-Methylphenol	0.022 J – 0.091	1,000*	C	RMEG	No
Benzoic acid	0.3 J – 1.3	200,000	D	RMEG	No
Benzyl alcohol	0.02 U – 0.19	6,100		RSL	No
Bis(2-ethylhexyl)phthalate	0.062 – 0.54	50	B2	CREG	No
Butyl benzyl phthalate	0.019 U – 0.057	10,000	C	RMEG	No
Diethyl phthalate	0.048 U – 0.058	40,000	D	RMEG	No
Dimethyl phthalate	0.019 U – 0.02 U	5,000		RMEG	No
Di-n-butyl phthalate	0.012 J – 0.02 U	5,000	D	RMEG	No
Di-n-octyl phthalate	0.019 U – 0.041	20,000		IM EMEG	No
Hexachlorobenzene	0.0048 U – 0.005U	0.44	B2	CREG	No
Hexachlorobutadiene	0.0048 U – 0.005U	9	C	CREG	No
Hexachloroethane	0.019 U – 0.02 U	18	LC	CREG	No
N-Nitrosodiphenylamine	0.019 U – 0.02 U	140	B2	CREG	No
Pentachlorophenol	0.19 U – 0.2 U	1.8	B2	CREG	No
Phenol	0.02 U – 0.18	15,000	D	RMEG	No
1-Methylnaphthalene	0.0096 J – 0.02 U	3,500		EMEG	No

2-Methylnaphthalene	0.019 U – 0.026	2,000		EMEG	No
Acenaphthene	0.019 U – 0.026	3,000		RMEG	No
Acenaphthylene	0.019 U – 0.02 U	3,000**		RMEG	No
Anthracene	0.019 U – 0.039	15,000	D	RMEG	No
Benzo(a)anthracene	0.04 – 0.11	1,500*** 0.15	B2	RMEG RSL	No Yes (cPAH)
Benzo(a)pyrene	0.045 – 0.12	1,500*** 0.096	B2	RMEG CREG	No Yes (cPAH)
Benzo (b,j,k)fluoranthene	0.12 – 0.3	1,500*** 0.15 ^{††}	B2	RMEG RSL	No Yes (cPAH)
Benzo(ghi)perylene	0.036 – 0.093	1,500***	D		No
Chrysene	0.072 – 0.19	1,500*** 15	B2	RMEG RSL	No Yes (cPAH)
Dibenzo(a,h)anthracene	0.011 J – 0.037	1,500*** 0.096 ^{†††}		RMEG CREG	No Yes (cPAH)
Dibenzofuran	0.019 U – 0.028	78	D	RSL	No
Fluoranthene	0.12 – 0.31	2,000	D	RMEG	No
Fluorene	0.019 U – 0.037	2,000	D	RMEG	No
Indeno(1,2,3-cd)pyrene	0.033 – 0.081	1,500*** 0.15	B2	RMEG RSL	No Yes (cPAH)
Naphthalene	0.02 U – 0.050	30,000	C	IM EMEG	No
Phenanthrene	0.059 – 0.18	1,500***	D		No
Pyrene	0.12 – 0.3	1,500	D	RMEG	No
4,4-DDD	0.0016 U – 0.0017 U	2.9	B2	CREG	No
4,4-DDE	0.0016 U – 0.0017 U	2.1	B2	CREG	No
4,4-DDT	0.0016 U – 0.0017 U	2.1	B2	CREG	No
Aldrin	0.00063U – 0.00065U	0.041	B2	CREG	No
Chlordane, alpha	0.00081U – 0.00084U	2****	KL	CREG	No
Chlordane, beta	0.00076U – 0.00079U	2****	KL	CREG	No
Dieldrin	0.0016 U – 0.0017 U	0.044	B2	CREG	No
Heptachlor	0.00063U – 0.00065U	0.16	B2	CREG	No
Nonachlor, cis-	0.0016U – 0.0016 U	2****	KL	CREG	No
Nonachlor, tras-	0.0046 U – 0.0048 U	2****	KL	CREG	No
Oxychlordane	0.0022 U – 0.0023 U	2****	KL	CREG	No
Total Aroclors	0.018 U – 0.022	1****		EMEG	No
Total cPAH (BaP-EQ)	0.80	0.1	B2	CREG	Yes
Total Dioxin TEQ	1.5E-6 J – 8.4E-6 J	5.0E-5	B2	EMEG	No

ATSDR - Agency for Toxic Substances and Disease Registry
CREG - ATSDR's Cancer Risk Evaluation Guide (child)

RMEG - ATSDR's Reference Dose Media Evaluation Guide (child)
 EMEG - ATSDR's Environmental Media Evaluation Guide (child)
 IM EMEG - ATSDR's Intermediate Environmental Media Evaluation Guide (child)
 J - Estimated value
 U - Compound analyzed, but not detected above detection limit
 UJ - Compound analyzed, but not detected above estimated detection limit
 EPA - Environmental Protection Agency
 A - EPA: human carcinogen
 B1 - EPA: Probable human carcinogen (limited human, sufficient animal studies)
 B2 - EPA: Probable human carcinogen (inadequate human, sufficient animal studies)
 C - EPA: Possible human carcinogen (no human, limited animal studies)
 CN - EPA: Carcinogenic potential cannot be determine
 D - EPA: Not classifiable as to health carcinogenicity
 LC - EPA: Likely to be carcinogenic to humans
 KL - EPA: Known/Likely human carcinogen
 RSL - EPA: Regional Screening Level
 † Assume hexavalent chromium
 †† Benzo (b)fluoranthene carcinogenic EPA: Regional Screening Level value was used as a surrogate
 ††† Benzo(a)pyrene CREG value was used as a surrogate
 * 2,4-Dimethylphenol RMEG value was used as a surrogate
 ** Acenaphthene RMEG value was used as a surrogate
 *** Pyrene RMEG value was used as a surrogate
 **** Chlordane CREG value was used as a surrogate
 ***** Arocolor 1254 EMEG value was used as a surrogate
 Total Dioxin TEQ -- sum of dioxin/furans toxic equivalent (TEQ)
 cPAHs - Carcinogenic Polycyclic Aromatic Hydrocarbons
 BaP-EQ - Benzo(a)pyrene Equivalents: sum of individual cPAHs multiplied by the relative potency factor (RPF) describing the carcinogenic potential relative to BaP.
 PPM - parts per million
BOLD values exceed comparison values

Table B7. Range of chemical concentrations detected in sediment within Harbour Village Marina in Kenmore, King County, Washington.

Compounds	Range of Concentration (ppm)	Comparison Value (ppm)	EPA Cancer Class	Comparison Value Reference	Contaminant of Concern (COC)
Antimony	9 UJ – 30 UJ	20	D	RMEG	No
Arsenic	9 UJ – 30 UJ	15	A	EMEG	No
Cadmium	0.9 U – 0.4	5	B1	EMEG	No
Chromium	29.8 – 55	150 [†]	A	RMEG	No
Copper	18.8 J – 97 J	500	D	IM EMEG	No
Lead	19 J – 50 J	250	B2	MTCA	No
Mercury	0.04 – 0.1	1	D	MTCA	No
Nickel	33 – 47	1,000		RMEG	No
Selenium	0.9 U – 3 U	250	D	EMEG	No
Silver	0.5 U – 2 U	250	D	RMEG	No
Zinc	97 J – 377 J	15,000	D	EMEG	No
Tributyltin	0.0036 U – 0.012	15 ^{††}	CN	EMEG	No
1,2,4-Trichlorobenzene	0.02 U – 0.02 U	5,000	D	EMEG	No
1,2-Dichlorobenzene	0.02 U – 0.02 U	15,000		EMEG	No
1,3-Dichlorobenzene	0.02 U – 0.02 U	1,000	D	IM EMEG	No
1,4-Dichlorobenzene	0.02 U – 0.02 U	3,500		EMEG	No
2,4-Dimethylphenol	0.02 UJ – 0.02 UJ	1,000		RMEG	No
2-Methylphenol	0.02 U – 0.014 J	1,000*	C	RMEG	No
4-Methylphenol	0.074 – 0.16	1,000*	C	RMEG	No
Benzoic acid	0.52 – 1.7	200,000	D	RMEG	No
Benzyl alcohol	0.2 – 0.53	6,100		RSL	No
Bis(2-ethylhexyl)phthalate	0.36 – 0.74	50	B2	CREG	No
Butyl benzyl phthalate	0.02 U – 0.082	10,000	C	RMEG	No
Diethyl phthalate	0.05 U – 0.1	40,000	D	RMEG	No
Dimethyl phthalate	0.02 U – 0.02 U	5,000		RMEG	No
Di-n-butyl phthalate	0.02 U – 0.026	5,000	D	RMEG	No
Di-n-octyl phthalate	0.02 U – 0.087	20,000		IM EMEG	No
Hexachlorobenzene	0.0039 U – 0.0049 U	0.44	B2	CREG	No
Hexachlorobutadiene	0.0039 U – 0.0049 U	9	C	CREG	No
Hexachloroethane	0.02 U – 0.02 U	18	LC	CREG	No
N-Nitrosodiphenylamine	0.02 U – 0.02 U	140	B2	CREG	No
Pentachlorophenol	0.2 U – 0.055 J	1.8	B2	CREG	No

Phenol	0.055 – 0.35	15,000	D	RMEG	No
1-Methylnaphthalene	0.0052 – 0.018 J	3,500		EMEG	No
2-Methylnaphthalene	0.012 – 0.047	2,000		EMEG	No
Acenaphthene	0.014 – 0.032	3,000		RMEG	No
Acenaphthylene	0.0035 J – 0.026	3,000**		RMEG	No
Anthracene	0.041 – 0.066	15,000	D	RMEG	No
Benzo(a)anthracene	0.12 – 0.2	1,500*** 0.15	B2	RMEG RSL	No Yes (cPAH)
Benzo(a)pyrene	0.11 – 0.21	1,500*** 0.096	B2	RMEG CREG	No Yes (cPAH)
Benzo (b,j,k)fluoranthene	0.29 – 0.57	1,500*** 0.15 ^{†††}	B2	RMEG RSL	No Yes (cPAH)
Benzo(ghi)perylene	0.085 – 0.14	1,500***	D		No
Chrysene	0.21 – 0.37	1,500*** 15	B2	RMEG RSL	No Yes (cPAH)
Dibenzo(a,h)anthracene	0.026 – 0.045	1,500*** 0.096 ^{†††}		RMEG CREG	No Yes (cPAH)
Dibenzofuran	0.012 – 0.024	78	D	RSL	No
Fluoranthene	0.22 – 0.48	2,000	D	RMEG	No
Fluorene	0.028 – 0.059	2,000	D	RMEG	No
Indeno(1,2,3-cd)pyrene	0.077 – 0.11	1,500*** 0.15	B2	RMEG RSL	No Yes (cPAH)
Naphthalene	0.038 – 0.04	30,000	C	IM EMEG	No
Phenanthrene	0.16 – 0.26	1,500***	D		No
Pyrene	0.23 – 0.8	1,500	D	RMEG	No
4,4-DDD	0.0013 U – 0.0017 U	2.9	B2	CREG	No
4,4-DDE	0.0016 U – 0.0072 J	2.1	B2	CREG	No
4,4-DDT	0.0013 U – 0.0017 U	2.1	B2	CREG	No
Aldrin	0.00051U – 0.00064U	0.041	B2	CREG	No
Chlordane, alpha	0.00066U – 0.00083U	2****	KL	CREG	No
Chlordane, beta	0.00062U – 0.00078U	2****	KL	CREG	No
Dieldrin	0.0013 U – 0.0017 U	0.044	B2	CREG	No
Heptachlor	0.00051U – 0.00064U	0.16	B2	CREG	No
Nonachlor, cis-	0.0013U – 0.0016 U	2****	KL	CREG	No
Nonachlor, tras-	0.0038 U – 0.0047 U	2****	KL	CREG	No
Oxychlordane	0.0018 U – 0.0023 U	2****	KL	CREG	No
Total Aroclors	0.032 U – 0.029 J	1*****		EMEG	No
Total cPAH (BaP-EQ)	1.23	0.1	B2	CREG	Yes
Total Dioxin TEQ	6.6E-6 J – 7.1E-5 J	5.0E-5	B2	EMEG	Yes

ATSDR - Agency for Toxic Substances and Disease Registry
 CREG - ATSDR's Cancer Risk Evaluation Guide (child)
 RMEG - ATSDR's Reference Dose Media Evaluation Guide (child)
 EMEG - ATSDR's Environmental Media Evaluation Guide (child)
 IM EMEG - ATSDR's Intermediate Environmental Media Evaluation Guide (child)
 J - Estimated value
 U - Compound analyzed, but not detected above detection limit
 UJ - Compound analyzed, but not detected above estimated detection limit
 EPA - Environmental Protection Agency
 A - EPA: human carcinogen
 B1 - EPA: Probable human carcinogen (limited human, sufficient animal studies)
 B2 - EPA: Probable human carcinogen (inadequate human, sufficient animal studies)
 C - EPA: Possible human carcinogen (no human, limited animal studies)
 CN - EPA: Carcinogenic potential cannot be determine
 D - EPA: Not classifiable as to health carcinogenicity
 LC - EPA: Likely to be carcinogenic to humans
 KL - EPA: Known/Likely human carcinogen
 RSL - EPA: Regional Screening Level
 † Assume hexavalent chromium
 †† Benzo (b)fluoranthene carcinogenic EPA: Regional Screening Level value was used as a surrogate
 ††† Benzo(a)pyrene CREG value was used as a surrogate
 * 2,4-Dimethylphenol RMEG value was used as a surrogate
 ** Acenaphthene RMEG value was used as a surrogate
 *** Pyrene RMEG value was used as a surrogate
 **** Chlordane CREG value was used as a surrogate
 ***** Aroclor 1254 EMEG value was used as a surrogate
 Total Dioxin TEQ -- sum of dioxin/furans toxic equivalent (TEQ)
 cPAHs – Carcinogenic Polycyclic Aromatic Hydrocarbons
 BaP-EQ – Benzo(a)pyrene Equivalents: sum of individual cPAHs multiplied by the relative potency factor (RPF) describing the carcinogenic potential relative to BaP.
 PPM – parts per million
BOLD values exceed comparison values

Table B8. Range of chemical concentrations detected in sediment within Kenmore Harbor in Kenmore, King County, Washington.

Compounds	Range of Concentration (ppm)	Comparison Value (ppm)	EPA Cancer Class	Comparison Value Reference	Contaminant of Concern (COC)
Antimony	10 UJ	20	D	RMEG	No
Arsenic	10 UJ	15	A	EMEG	No
Cadmium	0.7	5	B1	EMEG	No
Chromium	36	150 ⁺	A	RMEG	No
Copper	111 J	500	D	IM EMEG	No
Lead	26 J	250	B2	MTCA	No
Mercury	0.24	1	D	MTCA	No
Nickel	35	1,000		RMEG	No
Selenium	1 U	250	D	EMEG	No
Silver	0.7 U	250	D	RMEG	No
Zinc	182 J	15,000	D	EMEG	No
1,2,4-Trichlorobenzene	0.019 U	5,000	D	EMEG	No
1,2-Dichlorobenzene	0.019 U	15,000		EMEG	No
1,3-Dichlorobenzene	0.019 U	1,000	D	IM EMEG	No
1,4-Dichlorobenzene	0.019 U	3,500		EMEG	No
2,4-Dimethylphenol	0.019 UJ	1,000		RMEG	No
2-Methylphenol	0.019 U	1,000*	C	RMEG	No
4-Methylphenol	0.059	1,000*	C	RMEG	No
Benzoic acid	0.61	200,000	D	RMEG	No
Benzyl alcohol	0.1	6,100		RSL	No
Bis(2-ethylhexyl)phthalate	0.28	50	B2	CREG	No
Butyl benzyl phthalate	0.043	10,000	C	RMEG	No
Diethyl phthalate	0.068	40,000	D	RMEG	No
Dimethyl phthalate	0.019 U	5,000		RMEG	No
Di-n-butyl phthalate	0.019 U	5,000	D	RMEG	No
Di-n-octyl phthalate	0.024	20,000		IM EMEG	No
Hexachlorobenzene	0.0049 U	0.44	B2	CREG	No
Hexachlorobutadiene	0.0049 U	9	C	CREG	No
Hexachloroethane	0.019 U	18	LC	CREG	No
N-Nitrosodiphenylamine	0.019 U	140	B2	CREG	No
Pentachlorophenol	0.19 U	1.8	B2	CREG	No
Phenol	0.08	15,000	D	RMEG	No
1-Methylnaphthalene	0.034	3,500		EMEG	No

2-Methylnaphthalene	0.059	2,000		EMEG	No
Acenaphthene	0.13	3,000		RMEG	No
Acenaphthylene	0.026	3,000**		RMEG	No
Anthracene	0.15	15,000	D	RMEG	No
Benzo(a)anthracene	0.36	1,500*** 0.15	B2	RMEG RSL	No Yes (cPAH)
Benzo(a)pyrene	0.25	1,500*** 0.096	B2	RMEG CREG	No Yes (cPAH)
Benzo(b,j,k)fluoranthene	0.72	1,500*** 0.15 ^{††}	B2	RMEG RSL	No Yes (cPAH)
Benzo(ghi)perylene	0.095	1,500***	D		No
Chrysene	0.55	1,500*** 15	B2	RMEG RSL	No Yes (cPAH)
Dibenzo(a,h)anthracene	0.042	1,500*** 0.096 ^{†††}		RMEG CREG	No Yes (cPAH)
Dibenzofuran	0.09	78	D	RSL	No
Fluoranthene	1.2	2,000	D	RMEG	No
Fluorene	0.15	2,000	D	RMEG	No
Indeno(1,2,3-cd)pyrene	0.097	1,500*** 0.15	B2	RMEG RSL	No Yes (cPAH)
Naphthalene	0.17	30,000	C	IM EMEG	No
Phenanthrene	0.83	1,500***	D		No
Pyrene	0.92	1,500	D	RMEG	No
4,4-DDD	0.0017 U	2.9	B2	CREG	No
4,4-DDE	0.0017 U	2.1	B2	CREG	No
4,4-DDT	0.0017 U	2.1	B2	CREG	No
Aldrin	0.00064 U	0.041	B2	CREG	No
Chlordane, alpha	0.00082 U	2****	KL	CREG	No
Chlordane, beta	0.00077 U	2****	KL	CREG	No
Dieldrin	0.0016 U	0.044	B2	CREG	No
Heptachlor	0.00064 U	0.16	B2	CREG	No
Nonachlor, cis-	0.0016 U	2****	KL	CREG	No
Nonachlor, tras-	0.0047 U	2****	KL	CREG	No
Oxychlordane	0.0023 U	2****	KL	CREG	No
Total Aroclors	0.02	1****		EMEG	No
Total cPAH (BaP-EQ)	1.42	0.1	B2	CREG	Yes
Total Dioxin TEQ	1.0E-5 J	5.0E-5	B2	EMEG	No

ATSDR - Agency for Toxic Substances and Disease Registry
CREG - ATSDR's Cancer Risk Evaluation Guide (child)

RMEG - ATSDR's Reference Dose Media Evaluation Guide (child)
 EMEG - ATSDR's Environmental Media Evaluation Guide (child)
 IM EMEG - ATSDR's Intermediate Environmental Media Evaluation Guide (child)
 J - Estimated value
 U - Compound analyzed, but not detected above detection limit
 UJ - Compound analyzed, but not detected above estimated detection limit
 EPA - Environmental Protection Agency
 A - EPA: human carcinogen
 B1 - EPA: Probable human carcinogen (limited human, sufficient animal studies)
 B2 - EPA: Probable human carcinogen (inadequate human, sufficient animal studies)
 C - EPA: Possible human carcinogen (no human, limited animal studies)
 CN - EPA: Carcinogenic potential cannot be determine
 D - EPA: Not classifiable as to health carcinogenicity
 LC - EPA: Likely to be carcinogenic to humans
 KL - EPA: Known/Likely human carcinogen
 RSL - EPA: Regional Screening Level
 † Assume hexavalent chromium
 †† Benzo (b)fluoranthene carcinogenic EPA: Regional Screening Level value was used as a surrogate
 ††† Benzo(a)pyrene CREG value was used as a surrogate
 * 2,4-Dimethylphenol RMEG value was used as a surrogate
 ** Acenaphthene RMEG value was used as a surrogate
 *** Pyrene RMEG value was used as a surrogate
 **** Chlordane CREG value was used as a surrogate
 ***** Arocolor 1254 EMEG value was used as a surrogate
 Total Dioxin TEQ – sum of dioxin/furans toxic equivalent (TEQ)
 cPAHs – Carcinogenic Polycyclic Aromatic Hydrocarbons
 BaP-EQ – Benzo(a)pyrene Equivalents: sum of individual cPAHs multiplied by the relative potency factor (RPF) describing the carcinogenic potential relative to BaP.
 PPM – parts per million
BOLD values exceed comparison values

Table B9. Range of chemical concentrations detected in sediment within the Sammamish Navigation Channel in Kenmore, King County, Washington.

Compounds	Range of Concentration (ppm)	Comparison Value (ppm)	EPA Cancer Class	Comparison Value Reference	Contaminant of Concern (COC)
Antimony	6 UJ	20	D	RMEG	No
Arsenic	6 UJ	15	A	EMEG	No
Cadmium	0.2 U	5	B1	EMEG	No
Chromium	29.3	150 [†]	A	RMEG	No
Copper	5.9 J	500	D	IM EMEG	No
Lead	4 J	250	B2	MTCA	No
Mercury	0.03 U	1	D	MTCA	No
Nickel	23	1,000		RMEG	No
Selenium	0.6 U	250	D	EMEG	No
Silver	0.4 U	250	D	RMEG	No
Zinc	43 J	15,000	D	EMEG	No
1,2,4-Trichlorobenzene	0.019 U	5,000	D	EMEG	No
1,2-Dichlorobenzene	0.019 U	15,000		EMEG	No
1,3-Dichlorobenzene	0.019 U	1,000	D	IM EMEG	No
1,4-Dichlorobenzene	0.019 U	3,500		EMEG	No
2,4-Dimethylphenol	0.019 UJ	1,000		RMEG	No
2-Methylphenol	0.019 UJ	1,000*	C	RMEG	No
4-Methylphenol	0.038 U	1,000*	C	RMEG	No
Benzoic acid	0.38 U	200,000	D	RMEG	No
Benzyl alcohol	0.019 U	6,100		RSL	No
Bis(2-ethylhexyl)phthalate	0.028	50	B2	CREG	No
Butyl benzyl phthalate	0.019 U	10,000	C	RMEG	No
Diethyl phthalate	0.048 U	40,000	D	RMEG	No
Dimethyl phthalate	0.019 U	5,000		RMEG	No
Di-n-butyl phthalate	0.019 U	5,000	D	RMEG	No
Di-n-octyl phthalate	0.019 U	20,000		IM EMEG	No
Hexachlorobenzene	0.019 U	0.44	B2	CREG	No
Hexachlorobutadiene	0.01 UJ	9	C	CREG	No
Hexachloroethane	0.019 U	18	LC	CREG	No
N-Nitrosodiphenylamine	0.019 U	140	B2	CREG	No
Pentachlorophenol	0.19 U	1.8	B2	CREG	No
Phenol	0.019 U	15,000	D	RMEG	No
1-Methylnaphthalene	0.0048 U	3,500		EMEG	No

2-Methylnaphthalene	0.0048 U	2,000		EMEG	No
Acenaphthene	0.0048 U	3,000		RMEG	No
Acenaphthylene	0.0048 U	3,000**		RMEG	No
Anthracene	0.0048 U	15,000	D	RMEG	No
Benzo(a)anthracene	0.015 J	1,500*** 0.15	B2	RMEG RSL	No No (cPAH)
Benzo(a)pyrene	0.015 J	1,500*** 0.096	B2	RMEG CREG	No No (cPAH)
Benzo (b,j,k)fluoranthene	0.035 J	1,500*** 0.15 ^{††}	B2	RMEG RSL	No No (cPAH)
Benzo(ghi)perylene	0.0032 J	1,500***	D		No
Chrysene	0.02	1,500*** 15	B2	RMEG RSL	No No (cPAH)
Dibenzo(a,h)anthracene	0.0048 U	1,500*** 0.096 ^{†††}		RMEG CREG	No No (cPAH)
Dibenzofuran	0.0048 U	78	D	RSL	No
Fluoranthene	0.051	2,000	D	RMEG	No
Fluorene	0.0048 U	2,000	D	RMEG	No
Indeno(1,2,3-cd)pyrene	0.0036 J	1,500*** 0.15	B2	RMEG RSL	No No (cPAH)
Naphthalene	0.0048 U	30,000	C	IM EMEG	No
Phenanthrene	0.026	1,500***	D		No
Pyrene	0.039	1,500	D	RMEG	No
Total Aroclors	0.017 U	1****		EMEG	No
Total Dioxin TEQ	4.6E-7 J	5.0E-5	B2	EMEG	No

ATSDR - Agency for Toxic Substances and Disease Registry

CREG - ATSDR's Cancer Risk Evaluation Guide (child)

RMEG - ATSDR's Reference Dose Media Evaluation Guide (child)

EMEG - ATSDR's Environmental Media Evaluation Guide (child)

IM EMEG - ATSDR's Intermediate Environmental Media Evaluation Guide (child)

J - Estimated value

U - Compound analyzed, but not detected above detection limit

UJ - Compound analyzed, but not detected above estimated detection limit

EPA - Environmental Protection Agency

A - EPA: human carcinogen

B1 - EPA: Probable human carcinogen (limited human, sufficient animal studies)

B2 - EPA: Probable human carcinogen (inadequate human, sufficient animal studies)

C - EPA: Possible human carcinogen (no human, limited animal studies)

CN - EPA: Carcinogenic potential cannot be determine

D - EPA: Not classifiable as to health carcinogenicity

LC - EPA: Likely to be carcinogenic to humans

RSL - EPA: Regional Screening Level

[†] Assume hexavalent chromium

^{††} Benzo (b)fluoranthene carcinogenic EPA: Regional Screening Level value was used as a surrogate

^{†††} Benzo(a)pyrene CREG value was used as a surrogate

* 2,4-Dimethylphenol RMEG value was used as a surrogate

** Acenaphthene RMEG value was used as a surrogate

*** Pyrene RMEG value was used as a surrogate

**** Arocolor 1254 EMEG value was used as a surrogate

Total Dioxin TEQ – sum of dioxin/furans toxic equivalent (TEQ)

cPAHs – Carcinogenic Polycyclic Aromatic Hydrocarbons

BaP-EQ – Benzo(a)pyrene Equivalents: sum of individual cPAHs multiplied by the relative potency factor (RPF) describing the carcinogenic potential relative to BaP.

PPM – parts per million

Appendix C Exposure Assumptions

This section provides calculated exposure doses and assumptions used for exposure to chemicals in sediment along Lake Washington for 30 and 120 days. The different exposure scenarios were developed to model exposures that might occur. These scenarios were devised to represent exposures over a lifetime from a child to an adult. The following exposure parameters and dose equations were used to estimate exposure doses from direct contact with chemicals in sediment.

Exposure to chemicals in sediments via ingestion and dermal absorption.

Total dose_(non-cancer) = Ingested dose + dermally absorbed dose

Total Risk_(cancer) = Ingested + dermally absorbed dose

Ingestion Route

$$\text{Dose}_{(\text{non-cancer (mg/kg-day)})} = \frac{C \times CF \times IR \times EF \times ED}{BW \times AT_{\text{non-cancer}}}$$

$$\text{Cancer Risk} = \frac{C \times CF \times IR \times EF \times CSF \times ED}{BW \times AT_{\text{cancer}}}$$

Dermal Route

$$\text{Dermal Transfer (DT)} = \frac{C \times AF \times ABS \times AD \times CF}{ORAF}$$

$$\text{Dose}_{(\text{non-cancer (mg/kg-day)})} = \frac{DT \times SA \times EF \times ED}{BW \times AT_{\text{non-cancer}}}$$

$$\text{Cancer Risk} = \frac{DT \times SA \times EF \times CSF \times ED}{BW \times AT_{\text{cancer}}}$$

Table C1. Assumptions used in exposure evaluation of people in contact with sediments from the Kenmore area of Lake Washington, King County, Washington.

Parameter and Abbreviation		Value	Units	Source
Concentration in Sediment	Cs	Variable	mg/kg	Maximum chemical-specific concentration for sediment
Conversion Factor	CF	0.000001	kg/mg	Converts from kilograms sediment to milligrams sediment
Body Weight	BW	9.2	kg	Child 0.5 to < 1 year [19]
		11.4		Child 1 to < 2 years [19]
		17.4		Child 2 to < 6 years [19]
		31.8		Child 6 to < 11 years [19]
		56.8		Child 11 to < 16 years [19]
		71.6		Child 16 to < 21 years [19]
		80		Adult 21 to < 65 years [19]
		76		Adult 65+ years [19]
Exposure Frequency	EF	15	days/year	Limited access areas
		30		General population, number of days per year in sediments
		120		General population resident, based on number of days during summer (4 months year) per year in sediments
Age-specific Exposure Duration (used for age-specific calculations)	ED	0.5	year	Child 0.5 to < 1 year
		1		Child 1 to < 2 years
		4		Child 2 to < 6 years
		5		Child 6 to < 11 years
		5		Child 11 to <16 years
		5		Child 16 to <21 years
		44		Adult 21 to < 65 years
		13		Adult 65+
Averaging Time _{non-cancer}	AT	Variable	day	Equal to Exposure Duration
Averaging Time _{cancer}	AT	28,470		78 years
Minimal Risk Level	MRL	1.00E-9	mg/kg/day	Dioxins (ATSDR)
Cancer Slope Factor	CSF	7.3	mg/kg-day ⁻¹	BaP used as a reference chemical for cPAHs [13]
		150,000		Dioxins [20]
Ingestion Parameters				
Incidental Ingestion Rate	IR	60	mg/day	Child 0.5 years to < 1 year [19]
		100		Child 1 to < 21 years [19]
		50		Adult > 21 years [19]
Dermal Parameters				
Oral Route Adjustment Factor	ORAF	1	unitless	Cancer (c) – default, [21]

Parameter and Abbreviation		Value	Units	Source
Absorption Duration	AD	1	day	Fraction of day sediment is in contact with the skin (worst-case) [21]
Skin-sediment Adherence Factor	AF	0.07	mg/cm ²	Amount of sediment that adheres to skin, adult [21]
		0.2		Amount of sediment that adheres to skin, child (< 1-21 years) [21]
Dermal Absorption Factor	ABS	Dioxin 0.03	unitless	Chemical-specific, fraction of chemical that absorbs through the skin in 24-hours [21]
		PAH 0.13		
Surface Area	SA	1,800	cm ²	Child 0-1 year
		1,700		Child 1-2 years
		2,500		Child 2-6 years
		3,600		Child 6-11 years
		5,900		Child 11-21 years
		5,700		Adult

Abbreviations not defined in the table:

ATSDR	Agency for Toxic Substances and Disease Registry
EPA	U.S. Environmental Protection Agency
mg	milligram
kg	kilogram
mg/kg	milligrams chemical per kilogram dry weight (same as parts per million, ppm)
mg/kg/day	Daily dose in milligrams chemical per kilograms bodyweight per day
kg/mg	kilogram per milligrams
mg/cm ²	milligrams per square centimeter
cm ²	square centimeter
mg/day	milligrams per day
cPAHs	Carcinogenic Polycyclic Aromatic Hydrocarbons
BaP	Benzo(a)pyrene
MRL	Minimum Risk Level established by ATSDR

Table C2: Benzo(a)pyrene relative potency equivalent (BaP-EQ) for Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs) [13, 14].

Carcinogenic Polycyclic Aromatic Hydrocarbons (cPAHs)	BaP-EQ
Benzo(a)anthracene	0.2
Chrysene	0.1
Benzo(a)pyrene	1
Dibenz(a,h)anthracene	10
Benzo(g,h,i)perylene	0.009
Indeno(1,2,3-cd)pyrene	0.07
Benzo(b,j,k)fluoranthene	0.8*
Fluoranthene	0.08

cPAHs – Carcinogenic Polycyclic Aromatic Hydrocarbons

BaP-EQ – Benzo(a)pyrene Equivalents: sum of individual cPAHs multiplied by the relative potency factor (RPF) describing the carcinogenic potential relative to BaP.

* Benzo(b)fluoranthene BaP-EQ was used as surrogate for Benzo(b,j,k)fluoranthene

Table C3. Location-specific non-cancer dose calculated from maximum exposure to dioxin concentration in sediment at limited access area, Kenmore, King County, Washington.

Location	Maximum Concentration TEQ (mg/kg)	Age	MRL	Estimated Dose (15 days per year) (mg/kg/day)		Total Dose	Hazard Quotient
				Ingestion	Dermal Contact		
Harbour Village Marina	7.1E-5	Child < 2 years	1.00E-9	NA	NA	NA	NA
		Child 2 to < 6 years		NA	NA	NA	NA
		Child 6 to < 11 years		9.18E-12	1.98E-12	1.12E-11	0.01
		Child 11 to < 21 years		9.21E-12	3.26E-12	1.25E-11	0.01
		Adult 21+ years		3.74E-12	8.96E-13	4.64E-12	0.005

Abbreviations

<	less than
ATSDR	Agency for Toxic Substances and Disease Registry
mg/kg	milligrams chemical per kilogram dry weight (same as parts per million, ppm)
mg/kg/day	Daily dose in milligrams chemical per kilograms bodyweight per day
MRL	Minimum Risk Level established by ATSDR
TEQ	Toxic Equivalency Quotient
yr	year
NA	Not Appreciable – 4.5 feet or more of water

Hazard Quotient (HQ) formula:

$$HQ = \frac{\text{Estimated Dose (mg/kg-day)}}{\text{MRL (mg/kg-day)}}$$

Table C4. Location-specific carcinogenic risk estimates from exposure to the maximum concentration of carcinogenic polycyclic aromatic hydrocarbons (cPAH) Benzo(a)pyrene relative potency equivalent (BaP-EQ) in sediment, Kenmore, Washington.

Location	Maximum Concentration (mg/kg)	Age	Cancer Slope Factor	Increased Cancer Risk (30 days per year exposure)			Increased Cancer Risk (120 days per year exposure)		
				Ingestion	Dermal Contact	Total	Ingestion	Dermal Contact	Total
Log Boom Park	1.09	Child < 2 years	7.3	1.01E-06	5.38E-07	1.55E-06	4.04E-06	2.15E-06	6.19E-06
		Child 2 to < 6 years		5.78E-07	8.76E-07	9.54E-06	2.31E-06	1.50E-06	3.82E-06
		Child 6 to < 11 years		3.96E-07	3.70E-07	7.66E-07	1.58E-06	1.48E-06	3.06E-06
		Child 11 to < 21 years		2.80E-07	4.29E-07	7.09E-07	1.12E-06	1.72E-06	2.84E-06
		Adult 21+ years		3.02E-07	3.14E-07	6.16E-07	1.21E-06	1.25E-06	2.84E-06
		Lifetime		2.56E-06	2.03E-06	4.59E-06	1.03E-05	8.11E-06	1.84E-05

Abbreviations

<	less than
ATSDR	Agency for Toxic Substances and Disease Registry
CSF	Cancer slope factor
EPA	U.S. Environmental Protection Agency
mg/kg	milligrams chemical per kilogram dry weight (same as parts per million, ppm)
mg/kg-day	Daily dose in milligrams chemical per kilograms bodyweight per day
yr	year

Table C5. Location-specific carcinogenic risk estimates for exposure to maximum concentrations of contaminants in in-water sediments at limited access areas, Kenmore, King County, Washington.

Location	Contaminant	Maximum Concentration TEQ (mg/kg)	Age	Cancer Slope Factor	Increased Cancer Risk (15 days per year exposure)		
					Ingestion	Dermal Contact	Total
Harbour Village Marina	Dioxin	7.1E-5	Child < 2 years	150000*	NA	NA	NA
			Child 2 to < 6 years		NA	NA	NA
			Child 6 to < 11 years		8.82E-08	1.91E-08	1.07E-07
			Child 11 to < 21 years		8.86E-08	3.65E-08	1.20E-07
			Adult 21+ years		2.02E-07	5.08E-08	2.51E-07
			Lifetime		3.79E-07	1.06E-07	4.78E-07
Harbour Village Marina	cPAH	1.23	Child < 2 years	7.3	NA	NA	NA
			Child 2 to < 6 years		NA	NA	NA
			Child 6 to < 11 years		2.23E-07	2.09E-07	4.32E-07
			Child 11 to < 21 years		1.58E-07	2.42E-07	4.00E-07
			Adult 21+ years		1.71E-07	1.77E-07	3.47E-07
			Lifetime		5.52E-07	6.28E-07	1.18E-06
Kenmore Navigation Channel		0.801	Child < 2 years		NA	NA	NA
			Child 2 to < 6 years		NA	NA	NA
			Child 6 to < 11 years		1.45E-07	1.36E-07	2.81E-07
			Child 11 to < 21 years		1.03E-07	1.58E-07	2.61E-07
			Adult 21+ years		1.11E-07	1.15E-07	2.26E-07
			Lifetime		3.59E-07	4.09E-07	7.68E-07
Kenmore Harbor		1.48	Child < 2 years		NA	NA	NA
			Child 2 to < 6 years		NA	NA	NA
			Child 6 to < 11 years		2.69E-07	2.51E-07	5.20E-07
			Child 11 to < 21 years		1.90E-07	2.92E-07	4.82E-07
			Adult 21+ years		2.05E-07	2.13E-07	4.18E-07
			Lifetime		6.64E-07	7.55E-07	1.42E-06

Abbreviations

<	less than
CSF	Cancer slope factor
mg/kg	milligrams chemical per kilogram dry weight (same as parts per million, ppm)
mg/kg-day	Daily dose in milligrams chemical per kilograms bodyweight per day
TEQ	Toxic Equivalency Quotient
yr	year
*	HEAST = EPA's Health Effects Assessment Summary Tables [20]
EPA	U.S. Environmental Protection Agency
NA	Not Appreciable – 4.5 feet or more of water

Harbour Village Marina Lifetime Cancer Risk (cPAH and Dioxin-15 days per year) – $1.18\text{E-}6 + 4.78\text{E-}7 = 1.66\text{E-}6$

City Council Agenda Bill
City of Kenmore, WA



Meeting Date: 5/11/2026

Subject/Topic:	Proposed Council Action/Motion:
King County Parks Sponsorship for Kenmore 2026 Movies at the Square. Department: Public Works Operations Prepared by: Jennifer Gordon Public Works Operations Director Attachments: Advertising and Sponsorship Agreement between King County Parks and Recreation Division and the City of Kenmore.	☐ Information Only ☒ Receive and File ☐ Discuss ☐ Provide Direction ☐ Public Hearing ☒ Adopt/Approve ☐ Authorize ☐ Other: Motion to ratify King County Agreement 1132415/PO #6652533 with the City of Kenmore to accept \$3,000 in Sponsorship Funds for the City of Kenmore's 2026 Movies at the Square.

Approvals:

Department Head JG 4/27/2026 City Attorney 4/27/2026 Finance Director 4/30/2026 City Manager 4/29/2026 Optional _____

Summary/Background:

King County is providing \$3,000.00 to sponsor the City's 2026 Movies at the Square on July 22nd and August 19th.

Previous Council Action(s):

Fiscal Consideration:

Diversity, Equity, Inclusion, and Accessibility (DEIA) Consideration:

[DEIA Strategic Plan](#) | [City's Equity Framework Toolkit](#)

- Goal 1. Leadership and Operations
- Goal 2. Plans, Policies & Budgets
- Goal 4. Communication & Education

[City Council Priorities](#) or Budget Objective Being Addressed:

1. Ensure financial sustainability through revenue enhancement and cost cutting measures.
8. Explore opportunities to expand parks and recreation.
10. Broaden community engagement and foster fun.

ADVERTISING AND SPONSORSHIP AGREEMENT BETWEEN KING COUNTY PARKS AND RECREATION DIVISION AND THE KENMORE

This Advertising and Sponsorship Agreement ("**Agreement**") is made and entered into by and between the Parks and Recreation Division of the Department of Natural Resources and Parks of King County, a home rule charter county and political subdivision of the State of Washington ("**County**" or "**King County Parks**"), and The City of Kenmore, a City in the State of Washington ("**Kenmore**"), located at 18120 68th Ave NE Kenmore, WA 98028 under the following terms and conditions.

RECITALS

- A. King County Parks enters into this Agreement with Kenmore for the express purpose of recognizing King County Parks as a sponsor of Kenmore's 2026 Movies @ Town Square ("**Event**") in all advertising, promotions and marketing materials associated with the Event scheduled for:
 - July 22, 2026 & August 19, 2026 at the Kenmore Town Center
- B. The Director of King County Department of Natural Resources and Parks or the Director's designee has the authority to enter into this Agreement pursuant to King County Ordinance No. 14509.
- C. The tracking number for this Agreement (County purposes only) is: 1132415

NOW, THEREFORE, for and in consideration of the mutual agreements herein contained, the parties hereto do hereby agree as follows:

GENERAL TERMS

Scope of Relationship. Kenmore and the County desire to enter into this Agreement specifying the terms and conditions under which the County will compensate Kenmore for advertising and sponsorship rights related to the Event. The rights, benefits, and duties conferred upon the County under this Agreement shall be described in **Attachment A**.

1. **Term.** The term of this Agreement shall commence on the date it is fully executed, and end following the conclusion of the Event. The County's rights specified herein shall be effective on the date this Agreement is fully executed.
2. **Consideration.** For the promotional consideration, rights and benefits established under this Agreement, the County shall pay a total of THREE THOUSAND (\$3,000) DOLLARS upon

receipt of an invoice issued from Kenmore on or before September 25, 2026. The County shall make payment to Kenmore at the address referenced in Section 10, Notices and Liaisons.

3. **Kenmore Authority** Kenmore represents and warrants that it has all the rights, power and authority necessary to enter into this Agreement to carry out the promotional activities stated herein.
4. **Control of Advertising Content.** The County shall reserve the right and authority to maintain, operate, license, and authorize the County's advertising, promotional activities and displays related to the Event. The County, acting reasonably, shall have final approval as to marketing and advertising collateral, handouts, and giveaway items, web design and graphic/signage content. The County acknowledges and agrees that it shall not, by execution of this Agreement or otherwise, acquire any rights in or to the intellectual property of Kenmore.
5. **Hold Harmless/Indemnification.** To the maximum extent permitted by law, each Party shall protect, defend, indemnify and save harmless the other Party, its officers, officials, employees and agents while acting within the scope of their employment as such, from any and all suits, costs, claims, actions, losses, penalties, judgments, and/or awards of damages, of whatsoever kind arising out of, or in connection with, or incident to the services associated with this Agreement caused by or resulting from each Party's own negligent acts or omissions. Each Party agrees that its obligations under this provision extend to any claim, demand, and/or cause of action brought by or on behalf of any of its employees, or agents. The foregoing indemnity is specifically and expressly intended to constitute a waiver of each Party's immunity under Washington's Industrial Insurance Act RCW Title 51, as respects the other Party only, and only to the extent necessary to provide the indemnified Party with a full and complete indemnity or claims made by the indemnitor's employees. The Parties acknowledge that these provisions were specifically negotiated and agreed upon by them.
6. **Insurance Requirements.**
 - a. **Commercial General Liability.** Notwithstanding any other provision within this Agreement, Kenmore shall procure and maintain for the duration of this Agreement commercial general liability insurance against claims for injuries of persons or damages to property, which may arise from or in connection with Kenmore's use of the Event. Such insurance shall be as broad as that provided by Commercial General Liability "occurrence" form CG 00 001 (to include Products - Completed Operation) (current edition). The insurance limits shall be no less than One Million Dollars (\$1,000,000) per occurrence for bodily injury and property damage, Two Million Dollars (\$2,000,000) aggregate limit.
 - b. **Automobile Liability.** If the use of a vehicle is required, then One Million Dollars (\$1,000,000) Combined Single Limit Bodily Injury and Property Damage per Occurrence are required of Kenmore.
 - c. **Workers Compensation.** If Kenmore has employees, then Statutory Workers Compensation and One Million Dollars (\$1,000,000) Employers Liability/Stop Gap coverage is required.

- d. The required liability insurance policies (except Workers Compensation) are to be endorsed to:
- i. Name "King County, its officers, officials, agents and employees" as additional insured with respect to use of the Event as outlined in this Agreement (Form CO 2026 or its equivalent).
 - ii. Such coverage shall be primary and non-contributory insurance as respects County.
 - iii. State that Kenmore insurance shall apply separately to each insured against whom claim is made or suit is brought except with respect to the limits or the insurer's liability.
 - iv. State that coverage shall not be suspended, voided, canceled, reduced in coverage or in limits except after forty-five (45) days prior written notice to the County.

The insurance provider must be licensed to do business in the State of Washington and have a Bests' rating of A-VII I or better. Any deductible or self-insured retention must have been declared to and approved by County. The deductible and/or self-insured retention of the policies shall not limit or apply to Kenmore's liability to County and shall be the sole responsibility of Kenmore. Kenmore shall provide a Certificate of Insurance and required policy endorsements to the County on or before the date this Agreement is fully executed.

- e. **Insurance Provisions Material.** Kenmore understands, acknowledges and agrees that the insurance provisions of this Agreement are material, and that County may unilaterally terminate this Agreement if Kenmore fails to comply with the insurance requirements of this Agreement.

7. **Termination.**

- a. **For Public Safety.** The County reserves the right, acting reasonably, to terminate this Agreement and Kenmore's rights under this Agreement, as needed to protect the public health, safety, or welfare.
- b. **For Appropriations.** All County obligations under this Agreement beyond the current appropriation year are conditioned upon the King County Council's appropriation of sufficient funds to support the obligations described in this Agreement. If the Council does not approve such appropriation, then as required under King County Charter Article 4, Section 495, this Agreement will automatically terminate at the close of the current appropriation year or biennium. In the event the County cannot meet its obligations under this Agreement because it has not received sufficient appropriations, Kenmore may terminate this Agreement immediately without penalty.
- c. If either party terminates this Agreement under this Section 8.A or 8.B, the financial consideration owed to County shall be pro-rated on a Term basis to cover only that portion of the Term in which the Agreement was in effect, and Kenmore shall receive an appropriate refund of any funds paid to County, if applicable.

8. **Survival.** Any provision of this Agreement which by its nature must survive termination or expiration in order to achieve the fundamental purposes of this Agreement shall survive any termination or expiration of this Agreement. Without limitation of the foregoing, Sections 6 and 11 shall survive any termination or expiration of this Agreement.
9. **Notices and Liaisons.** Any notice or communication hereunder shall be in writing, and may be given by registered, certified or electronic mail. If given by registered or certified mail, the notice or communication shall be deemed to have been given and received when deposited in the United States Mail, properly addressed, with postage prepaid. If given otherwise than by registered or certified mail, it shall be deemed to have been given when delivered and received by the party to whom it is addressed. Such notices or communications shall be given to the liaisons for the parties hereto at the following addresses:

If to the County:

Ryan Dotson,
King County Liaison
King County Parks
201 S. Jackson Street
Seattle, WA 98104

If to The Kenmore:

Alison Jenkins,
Kenmore Liaison
Events and Volunteer Supervisor
18120 68th Ave NE
Kenmore, WA 98028

or

or

ryan.dotson@kingcounty.gov

ajenkins@kenmorewa.gov

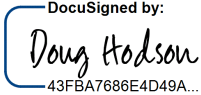
10. **Washington Law Controlling; Jurisdiction and Venue.** This Agreement shall be governed by, and construed in accordance with, the laws of the State of Washington, without regard to its choice of law principles. Any litigation related to or arising out of this Agreement shall be brought in King County Superior Court, in King County, Washington.
11. **Compliance with Laws and Regulations.** Kenmore shall comply fully with all applicable federal, state and local laws, ordinances, executive orders and regulations that prohibit discrimination. These laws include, but are not limited to, RCW Chapter 49.60, Titles VI and VII of the Civil Rights Act of 1964, the Americans with Disabilities Act, and the Restoration Act of 1987.
 - a. **Nondiscrimination in Employment.** KCC Chapter 12.16 is incorporated by reference as if fully set forth herein and such requirements apply to this Agreement. During the performance of this Agreement, Kenmore shall not discriminate or tolerate harassment on the basis of sex, race, color, marital status, national origin, religious affiliation, disability, sexual orientation, gender identity or expression or age except by minimum age and retirement provisions, unless based upon a bona fide occupational qualification in the employment or application for employment or in the administration or delivery of services or any other benefit under this Agreement.

- b. Nondiscrimination in Subcontracting Practices. KCC Chapter 12.17 is incorporated by reference as if fully set forth herein and such requirements apply to this Agreement. During the solicitation, award and term of this Agreement, Kenmore shall not create barriers to open and fair opportunities to participate in County contracts or to obtain or compete for contracts and subcontracts as sources of supplies, equipment, construction and services. In considering offers from and doing business with subcontractors and suppliers, Kenmore shall not discriminate against any person on the basis of sex, race, color, marital status, national origin, religious affiliation, disability, sexual orientation, gender identity or expression or age except by minimum age and retirement provisions, unless based upon a bona fide occupational qualification.
- c. Fair Employment Practices. KCC Chapter 12.18 is incorporated by reference as if fully set forth herein and such requirements apply to this Agreement. During the performance of this Agreement, Kenmore shall not engage in unfair employment practices.

- 12. **Powers of the County**. Nothing contained in this Agreement shall be considered to diminish the governmental or police powers of the County.
- 13. **No Partnership**. No Third-Party Beneficiaries. Nothing contained herein shall make, or be deemed to make, the County and The Kenmore a partner of one another, and this Agreement shall not be construed as creating a partnership or joint venture. Nothing in this Agreement creates or will be deemed to create any right, duty, or obligation in any person not a party to it.
- 14. **Entire Agreement**. This Agreement constitutes the entire agreement between the parties with respect to its subject matter and supersedes all other oral or written representations, understandings or agreements. No amendments to this Agreement shall be allowed or be effective unless in a writing approved by both parties.
- 15. **Assignment**. No assignment of Kenmore's rights hereunder shall be allowed without the prior written approval of County, except to a parent or affiliate company of Kenmore or in connection with a merger or consolidation involving Kenmore.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the dates indicated below.

KING COUNTY

By: 43FBA7686E4D49A...

Doug Hodson, Deputy Director

Parks and Recreation Division

Date: 3/18/2026 | 2:49 PM PDT

THE CITY OF KENMORE

By: 6697E6112ADA4EA...

Jennifer Gordon, Public Works Operations Director

The City of Kenmore

Date: 3/18/2026 | 1:03 PM PDT

Attachment A

	King County Rights and Benefits	Responsibilities
Event Production		Kenmore will coordinate logistics related to production of at least one (1) movie night event, including but not limited to: hiring vendor; selecting site, event date, and movie; acquiring necessary permits; and day-of coordination.
Marketing Collateral	County's "Your Big Backyard" brand or logo will be included in Event marketing collateral, including digital and print media and other Event-related marketing collateral. Kenmore may use the following Marks in conjunction with the Project. Standards of use and downloadable images are provided in the County's Style Guide (see link below). King County Parks Logo.zip (dropbox.com) 	County will provide to Kenmore its brand, web links, and graphic materials in accordance with the specifications requested by Kenmore.
On-site Presence	County may set-up and staff a promotional booth/tent at the Event.	County will be responsible for providing its own tent and staff.
On-site Recognition	County will receive recognition from Kenmore as a sponsor on site at the Event, including but not limited to signage, verbal recognition, and opportunity for a King County representative to make remarks at the Event.	If interested in the option to make remarks at Event, County will provide a representative to Kenmore.
Event Report		Kenmore will provide the County with a brief written event report, comprising of, but not limited to, the following information: event re-cap; summary of promotional activities; and event attendance.

City Council Agenda Bill
City of Kenmore, WA



Meeting Date: 5/11/2026

Subject/Topic:	Proposed Council Action/Motion:
King County Interlocal Agreement 24-C3009 Amendment #2. Department: Environmental Services Prepared by: Richard Sawyer Environmental Services Director Attachments: 24-C3009 Amendment 2	☐ Information Only ☐ Receive and File ☐ Discuss ☐ Provide Direction ☐ Public Hearing ☐ Adopt/Approve ☒ Authorize ☐ Other: Authorize City Manager to execute Interlocal Agreement 24-C3009 Amendment #2 with King County to accept FY 2026 Conservation Futures Levy Fund allocation of \$6,622,500 to acquire six properties.

Approvals:

Department Head	RS	City Attorney	NA	Finance Director	NA	City Manager	TK 5/1/26	Optional	NA
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Summary/Background:

This amendment to the Interlocal Agreement between King County and the City of Kenmore regarding FY 2026 Conservation Futures Levy Fund allocations will provide \$6,622,500 to the City of Kenmore to purchase six properties for the purpose of conservation, restoration and passive recreation. Beginning in 2024, City Council established an ongoing annual budget in the Surface Water Management Fund to acquire properties for the purpose of protecting the City's natural habitat. Acquisition of these properties restores native vegetation, improves biodiversity, and revitalizes the city's watersheds.

Swamp Creek Property

This property is a 0.36-acre property located on Swamp Creek along 73RD AVE NE just south of NE 192ND ST. City Council authorized the purchase of the property on December 8, 2025 for a purchase price of \$680,000 plus closing and site stabilization costs. This ILA Amendment provides \$520,000 towards the purchase prices and \$71,250 towards closing and site stabilization costs.

Sammamish River Łaxwadis Park Properties

This group of five properties totals 12.4-acres and are located on the south side of NE 175TH ST adjacent to the east side of Łaxwadis Park. City Council authorized the purchase of the property on December 8, 2025 for a purchase price of \$6,800,000 plus closing and site stabilization costs. This ILA

Amendment provides \$5,100,000 towards the purchase prices and \$71,250 towards closing and site stabilization costs.

Previous Council Action(s):

- City Council authorized Interlocal Agreement 24-C3009 with King County on February 12, 2024 regarding the Conservation Futures Levy Fund and establishing FY 2024 allocations.
- City Council authorized Interlocal Agreement 24-C3009 Amendment #1 with King County on April 14, 2025 regarding FY 2025 Conservation Futures Levy Fund allocations.
- City Council approved Real Estate Purchase Sale Agreement 25-C3195 for the Swamp Creek property on December 8, 2025.
- City Council approved Real Estate Purchase Sale Agreement 25-C3196 for the five Sammamish River properties on December 8, 2025.

Fiscal Consideration:

The value of the Swamp Creek property was appraised at \$680,000 by Integra Realty Resources in March 2025 and the negotiated sale price is \$680,000. Additional acquisition costs, including closing, demolition, and site stabilization are estimated to be \$65,000. King County Council approved a Conservation Futures grant award of \$581,250. The remaining \$163,750 will be paid by the Surface Water Management Fund.

Fiscal Summary (Swamp Creek Property):

Property Purchase	\$680,000
Closing, demolition, site stabilization	\$65,000
Total	\$745,000
King County Conservation Futures Grant	\$581,250
SWM Fund (City)	\$163,750
Total	\$745,000

The combined value of the Sammamish River *ḷaḵʷadis* Park properties was appraised at \$7,800,000 by McKee Appraisal in March 2025 and the negotiated sale price is \$6,800,000. Additional acquisition costs, including closing, demolition, and site stabilization are estimated to be \$255,000. King County Council approved a Conservation Futures grant award of \$5,906,250 and King County Parks awarded an additional \$1,000,000 through their Open Space – River Corridor grant program. The remaining \$148,750 will be paid by the Surface Water Management Fund.

Fiscal Summary (Samm. River Properties):

Property Purchase	\$6,800,000
Closing, demolition, site stabilization	\$255,000
Total	\$7,055,000
King County Conservation Futures Grant	\$5,906,250
King County Parks Grant	\$1,000,000
SWM Fund (City)	\$148,750
Total	\$7,055,000

Diversity, Equity, Inclusion, and Accessibility (DEIA) Consideration:
[DEIA Strategic Plan](#) | [City's Equity Framework Toolkit](#)

Goal 5 – Facility Plans & Improvements

[City Council Priorities](#) or Budget Objective Being Addressed:

2. Continue to implement the adopted Climate Action Plan and promote environmental stewardship, including water, air, forest, and habitat restoration and preservation.

8. Explore opportunities to expand Parks and Recreation.

**AMENDMENT TO THE CONSERVATION FUTURES
INTERLOCAL COOPERATION AGREEMENT
BETWEEN KING COUNTY AND THE CITY OF KENMORE
FOR OPEN SPACE ACQUISITION PROJECTS**

The King County Council, through Ordinance 9128, has established a Conservation Futures Levy Fund and appropriated proceeds to King County and certain cities. This amendment is entered into to provide for the allocation of additional proceeds made available for open space acquisition.

THIS AMENDMENT is entered into between the CITY OF KENMORE and KING COUNTY, and amends and attaches to and is part thereof of the existing Interlocal Cooperation Agreement entered into between the parties on the 26th day of August, 2024, as previously amended.

The parties agree to the following amendment:

The Interlocal Cooperation Agreement is hereby amended by adding Exhibit 1, attached hereto.

In all other respects, the terms, conditions, duties and obligations of both parties shall remain the same as agreed to in the Interlocal Cooperation Agreement as previously amended.

Once fully executed, this Amendment shall be incorporated into the existing Interlocal Cooperation Agreement as if fully set forth, and shall become Amendment 2.

IN WITNESS WHEREOF, authorized representatives of the parties hereto have signed their names in the spaces set forth below:

KING COUNTY

CITY OF KENMORE

Girmay Zahilay
King County Executive

Teri Killgore
City Manager

Date: _____

Date: _____

Approved as to form:

Approved as to form:

Leesa Manion
King County Prosecuting Attorney

Dawn Reitan
City Attorney

EXHIBIT 1

2026 CONSERVATION FUTURES LEVY PROCEEDS CITY OF KENMORE ALLOCATION

Jurisdiction	Project Name	Allocation
Kenmore	ḷaḥʷadis Park Property Acquisition - acquisition, annual funding	\$25,000
Kenmore	ḷaḥʷadis Park Property Acquisition - acquisition, bond funding	\$5,881,250
Kenmore	ḷaḥʷadis Park Property Acquisition - SSC	\$135,000
Kenmore	Wetland 3 Property Acquisition - acquisition	\$543,750
Kenmore	Wetland 3 Property Acquisition - SSC	\$37,500
TOTAL		\$6,622,500

Project Descriptions:

Project #1150352: Kenmore – ḷaḥʷadis Park Property Acquisition – acquisition (annual funding), \$25,000

This project is receiving annual, bond, and SSC funding awards; this represents the annual funding. The City of Kenmore seeks to purchase five parcels that are adjacent to ḷaḥʷadis Park [pronounced *TI' AWH-ah-dees*], which has recently been redeveloped and has regional significance for salmonid habitat conservation and public use. This would protect valuable Sammamish River shoreline property from future development and conserve Tier 1 Chinook salmon habitat and enhance critical areas. Match funding is anticipated to come from local sources. Project funding was authorized in King County Ordinance 20023.

Is this a Bond-financed Project? No

Project #1148073/Award #1150394: Kenmore – ḷaḥʷadis Park Property Acquisition – acquisition (bond funding), \$5,881,250

This award goes to the same project as above, representing the bond funding award into the project. Match comes from the same source as the project above. Project funding was authorized in King County Ordinance 20023.

Is this a Bond-financed Project? Yes

Project #1150422: Kenmore – ŁaŃwadis Park Property Acquisition – SSC funding, \$135,000

This award goes to the same project as above, representing the SSC funding award into the project. Match comes from the same source as the project above. Project funding was authorized in King County Ordinance 20023.

Is this a Bond-financed Project? No

Project #1150353: Kenmore – Wetland 3 Property Acquisition – acquisition (annual funding), \$543,750

This project is receiving annual and SSC funding awards; this represents the annual funding. The City of Kenmore seeks to acquire 0.36 acres within the Swamp Creek Watershed. This project seeks to restore native vegetation, improve biodiversity, and revitalize the Swamp Creek Watershed in a way that creates wildlife buffers, reduces flooding during storm events, and enhances stormwater retention. Match funding is anticipated to come from local sources. Project funding was authorized in King County Ordinance 20023.

Is this a Bond-financed Project? No

Project #1150423: Kenmore – Wetland 3 Property Acquisition – SSC funding, \$37,500

This award goes to the same project as above, representing the SSC funding award into the project. Match comes from the same source as the project above. Project funding was authorized in King County Ordinance 20023.

Is this a Bond-financed Project? No

Kenmore Community Rowing CLub

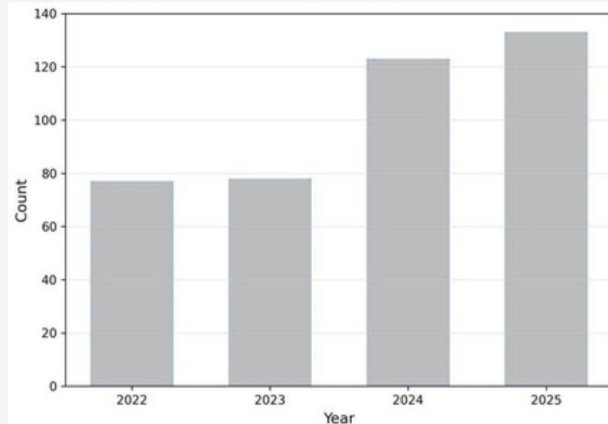
May 11, 2026

2025: A YEAR OF ACCELERATION

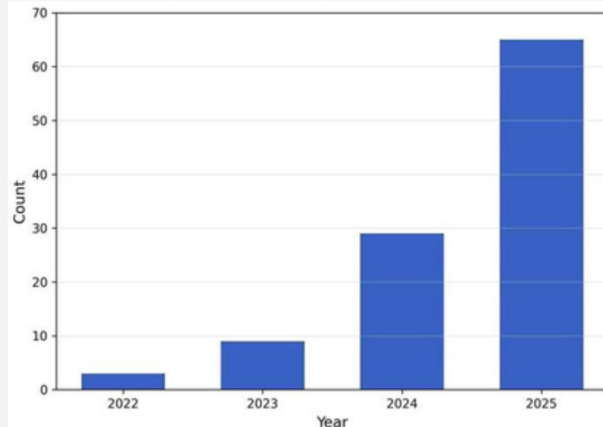
Growth Across Every Dimension

- 197 unique rowers—**28% growth year-over-year**
- Youth participation increased 125%
- 579 sessions delivered (+27%)
- 4,208 athlete attendances (+30%)
- 100% of financial aid requests funded

ADULT ROWER YEARLY ACTIVITY



YOUTH ROWER YEARLY ACTIVITY



EXPANDING PROGRAMS & PARTICIPATION

Building Clear Pathways & Year-Round Engagement

- 71 Adult + 31 Youth Learn-to-Row graduates
- First Winter Youth Training Program launched
- Flexible drop-in model for Masters introduced
- First Internal KCRC Regatta hosted
- Youth summer participation more than doubled
- Strengthened and sustained winter participation



COACHING LEADERSHIP & COMPETITIVE MOMENTUM

Stronger Leadership. Stronger Results.

- Promoted Siobhan Quirke to Head Coach
- 11 active coaches at peak season
- Competed in 6 regattas (including first Coastal Sprint)
- Multiple podium finishes at Green Lake Extravaganza
- First-ever Tail of the Lake medal - go JOLO!
- First place for the 2x at Otter Island!



INVESTING IN EQUIPMENT & INFRASTRUCTURE

Building Capacity for Growth

- 5 new boats added to fleet. Club purchased boats: King 8+, JOLO, Dawn Patrol. Private purchase by KCRC Members on indefinite loan : Maas double & single
- New Bont shoe system installed
- Expanded oar inventory
- New Cox Boxes and stroke coaches
- Purchased dedicated boat trailer
- Kenmore City installed heaters in upstairs training space
- Modified cage gate for better storage



FINANCIAL STRENGTH & COMMUNITY INVESTMENT

Stronger Financial Foundation

- \$54,000+ raised at Fall Dinner & Auction (40% increase)
- Dunn Foundation matching grant up to \$100,000
- \$10,000 King County Get Active, Stay Active Grant
- Private donation enabled the purchase of a racing King 8+
- Formalized safety systems & strengthened governance

2025 INCOME		2025 EXPENSES	
Donations & Grants	\$145,000	Payroll/Taxes/Fees	\$92,000
Program Income and Misc	\$127,000	Boat Purchases	\$93,000
		Operations	\$27,000
		Other	\$23,000
		Facilities & Equipment	\$10,000
Total Income	\$272,000	Total Expenses	\$245,000

Total Income	\$272,000
Total Expenses	\$245,000
Net Operating Income	\$27,000

*Inclusive of corporate matching gifts, grants, and fundraising events, including \$40,000 grant income which was earned in 2025, but realized in 2026.

SOCIAL & COMMUNITY BUILDING

Community fun off the water

- First ever Chili Cook - Off, Holiday Cookie Swap, Valentines Rodeo - Thank you social committee!
- Addressed community needs for food drive
- Team Fitness Challenges
- Saturday Running Group



IMPACT & VOLUNTEERISM

- MOU signed with NSD / IHS crew to strengthen space and equipment sharing
- Hundreds of volunteer hours contributed annually
- Two major Boathouse Clean-Up Days (January & November)
- Annual Earth Day shoreline clean-up with NSD
- Social Saturdays, Welcome Back Row, and National Learn to Row day - building connection beyond practice
- 100% of financial aid requests funded — community ensuring access for all



Q&A and community comments!

**What would you like to know? What
would you like us to know?**

or email chair@kenmorerowing.org

City Council Agenda Bill City of Kenmore, WA



Meeting Date: 5/11/2026

Subject/Topic:	Proposed Council Action/Motion:
Direction on Emergency Shelter, Transitional Housing, Emergency Housing, and Permanent Supportive Housing (STEP) Housing Regulations Department: Community Development Prepared by: Debbie Bent, Assistant City Manager/Community Development Director Attachments: 1. Revised draft STEP Housing Regulations	☐ Information Only ☐ Receive and File ☐ Discuss ☒ Provide Direction ☐ Public Hearing ☐ Adopt/Approve ☐ Authorize ☐ Other: Motion to move forward with a Public Hearing for STEP housing regulations.

Approvals:

Department Head	DB 4/10/26	City Attorney	DR 4/10/26	Finance Director	n/a	City Manager	TK 4/29/26	Optional
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Summary/Background:

Summary: Council direction to proceed with a Public Hearing for proposed STEP Housing regulations. A Public Hearing is tentatively scheduled for 6/8/26 with Ordinance adoption 6/22/26.

At the 3/16/26 City Council meeting, the City Council direction was to proceed with STEP Housing regulations consistent with recent State Legislation HB2266. The City Council also wished to see revised draft STEP regulations prior to scheduling a Public Hearing. Draft STEP regulations (Attachment #1) were revised following the 3/16/26 meeting to clarify the following sections to be consistent with the new State Law:

- Added a new draft KMC 18.77.070 to address HB 2266 requirements relating to Emergency Housing and Emergency Shelter certification and other good faith negotiations.
- Added footnotes to applicable permitted use tables for Indoor Emergency Housing and Indoor Emergency shelters which reference language in new KMC 18.77.070.
- Added a new draft KMC 18.77.080 to address HB 2266 requirements relating to STEP housing where the City has a stated interest.

State Legislation:

The City's zoning regulations allow STEP housing. However, amendments to zoning regulations will provide additional clarity and consistency based on HB 1220 (passed 2021), ESHB2266 (passed 2026) and the Washington State Department of Commerce guidance.

In 2021, Washington State enacted House Bill 1220 (HB 1220), amending the Growth Management Act and municipal code requirements (RCW 36.70A.070(2), RCW 35A.21.430, and RCW 35.21.683). This legislation also required local governments to plan for and accommodate housing affordable to

all income levels by 2044. Emergency shelters and housing are required to be allowed in areas where hotels or motels are permitted, and permanent supportive housing and transitional housing must be allowed in any zones where residential dwellings and hotels are allowed.

The Washington State legislature recently passed ESHB2266. The Governor signed the legislation into law 3/27/26. Below is a summary of ESHB2266.

Location: A city may not prohibit indoor emergency shelters, transitional housing, indoor emergency housing, or permanent supportive housing (STEP housing) in certain zones as follows:

- A city may not prohibit transitional housing or permanent supportive housing in any zone where residential dwelling units or hotels are allowed; and
- A city may not prohibit indoor emergency shelters or indoor emergency housing in any zone where hotels are allowed, unless the city has adopted an ordinance authorizing indoor emergency shelters and indoor emergency housing in a majority of zones within a one-mile proximity to transit.
- A city may not require STEP housing to be located in a zone within an urban growth area zoned for industrial use.
- A city is prohibited on limiting the siting of a sufficient amount of indoor emergency shelters and indoor emergency housing to accommodate each city's projected need under its comprehensive plan.
- A city must allow indoor emergency shelters and indoor emergency housing in additional types of zones when necessary to meet projected needs under their comprehensive plan.

Permitting Requirements on Existing Buildings.

- A city is prohibited from imposing permitting requirements on the use of an existing building for residential purposes beyond those requirements applicable to all residential development within the building's zone.
- A city may generally not require any standards, conditions, or requirements for STEP housing that are more restrictive than those required for other types of lodging or development in the zone.
- A city may only apply the same development permit and environmental review processes to STEP housing that apply to other types of lodging and residential development in the same zone, unless otherwise required by state law, such as shoreline regulations and building, energy, and electrical codes.
- Only administrative design review may be required.

Local Requirements on Affordable Housing Developments.

- A city is authorized to impose and enforce requirements on affordable housing developments as conditions of loans, grants, financial support, tax benefits, subsidy funds, or sale or lease or public property. The authorization also applies to affordable housing incentive programs or any other program involving bonus density, transfer of development rights, waiver of development regulations or fees, or other development incentives.

Certification Requirements. For an indoor emergency shelter or indoor emergency housing, a city may require the sponsor or managing agency to certify in writing that it has, between the date the permit application was approved and the date the certificate of occupancy was issued:

- provided the name, if any, of the facility and the name and headquarters address of the managing entity;
- provided a description of any other programs operating in the building and copies of the applicable licenses and certifications held by the program;
- notified residents within 500 feet of the indoor emergency shelter or indoor emergency housing;
- conducted more than one community meeting;
- designated at least one point of contact authorized to make decisions and take corrective action in case of an emergency, and provided at least one telephone number to be used in emergencies; and
- provided documentation of the sponsor's or managing agency's operational policies for promoting and addressing health and safety inside the building and in areas immediately adjacent to the building, admissions, program exit or transfer, handling complaints and grievances from occupants, health, fire, safety, occupancy, and staffing to provide services and resources comparable to standard or customary practices for the particular type of housing being provided.
- A city may not require the sponsor or managing agency to provide additional certifications outside of what is allowed under the act.

Negotiations between Sponsors and Local Jurisdictions.

- Upon receipt of a permit application for an indoor emergency shelter or indoor emergency housing with a proposed location within 500 feet of walking distance from the physical ground of a public or private school, the city may enter into goodfaith negotiations with the sponsor to establish additional and reasonable requirements pertaining to health and safety protocols. For the purposes of this requirement, the school must exist before an indoor emergency shelter or indoor emergency housing is in operation or has submitted a permit application.
- If the parties are unable to come to an agreement within 180 days of the permit being submitted, the city may deny the permit.
- If a permit is denied as a result of being unable to come to an agreement under this process, the city must assist the sponsor in identifying suitable properties to site the indoor emergency shelter or indoor emergency housing.
- The negotiation requirements do not apply to an indoor emergency shelter or indoor emergency housing designated for individuals under the age of 18, families, or victims of domestic violence, nor do they allow a city or county to limit indoor emergency shelters or indoor emergency housing in a manner where capacity is insufficient to meet the projected needs identified in their comprehensive plans.

Contracts with Sponsors Proposing STEP Housing.

- A city may enter into a contract with a sponsor proposing STEP housing to establish additional and reasonable operational requirements pertaining to health and safety protocols. Legal consideration for such a contract must, at a minimum, include a donation of real property or a long-term lease of land at least 50 years in length, to be used for the STEP housing or a significant contribution from the general fund for capital or operating expenses to be mutually determined by both parties.
- A city that unilaterally withdraws from or modifies the consideration is in material breach of the contract and the operational requirements specified in the contract shall no longer apply to the STEP housing.

Local Requirements on Affordable Housing Developments.

- Income qualification, coordinated entry, reporting, and monitoring are added to the types of requirements a city may impose and enforce on affordable housing.

Implementation and Preemption.

- A city shall adopt and incorporate the requirements of this act within two years of the effective date of this section or its next comprehensive plan update, whichever occurs first.
- The requirements of the act supersede, preempt, and invalidate any conflicting local regulations and apply regardless of whether a city has incorporated the requirements of this act into the city's development regulations, zoning regulations, and other official controls.
- The act does not apply to the STEP housing in operation on the effective date of this section. A city may not deem STEP housing in operation on the effective date of the act unlawful or noncompliant due to the provisions of the act or due to ordinances, regulations, or controls adopted or amended due to the act.

Previous Council Action(s):

At the 3/16/26 City Council meeting, link to agenda, [City Council Special and Regular Meeting of Monday, March 16, 2026 • City of Kenmore Agendas and Minutes • CivicClerk](#), the City Council reviewed draft STEP regulations and gave direction to proceed with revising the draft regulations consistent with State Law.

At the 11/17/25 City Council meeting, link to agenda [City Council Regular Meeting of Monday, November 17, 2025 • City of Kenmore Agendas and Minutes • CivicClerk](#). The STEP Committee presented their recommendations on proposed amendments to zoning regulations for STEP Housing. Council discussion and questions following the presentation.

At the 3/24/25 City Council meeting, link to agenda [City Council Special and Regular Meeting • City of Kenmore Agendas and Minutes • CivicClerk](#), the City Council appointed members to serve on the STEP Housing Advisory Committee.

At the 2/24/25 City Council meeting, Link to agenda [City Council Special and Regular Meeting • City of Kenmore Agendas and Minutes • CivicClerk](#), the City Council approved the charter for the STEP Housing Advisory Committee.

At the 2/10/25 City Council meeting, Link to agenda [City Council Special and Regular Meeting • City of Kenmore Agendas and Minutes • CivicClerk](#), staff gave an overview of the implications of Implications of House Bill 1195 and Senate Bill 5497 for STEP Housing.

At the 1/13/25 City Council study session, Link to agenda [City Council Special Meeting • City of Kenmore Agendas and Minutes • CivicClerk](#). the City Council reviewed the proposed “draft” 2025 Planning Commission docket work program as well as work program items for proposed code amendments that would be reviewed and approved directly by the City Council. A work program item on the City Council work program included proposed amendments to the Kenmore Municipal Code to address Shelters, Transitional Housing, Emergency Housing and Permanent Supportive Housing (STEP Housing) to be consistent with HB 1220. In addition, a memo was included about the STEP

housing work program regarding schedule, budget and review by a new limited term STEP Advisory Committee. Council made no changes to the proposed work program.

At the 3/25/24 City Council meeting, link to agenda [City Council Meeting • City of Kenmore Agendas and Minutes • CivicClerk](#), staff provided an update on Permanent Supportive Housing and Other Affordable Housing Topics. The memo noted that proposed amendments to the municipal code were anticipated as part of a 2025 work program item. The memo noted that several council members were interested in forming a committee to provide advice to the City Council on permanent supportive housing and that further direction would be needed regarding a committee charter.

Fiscal Consideration:

- \$47,700 City of Kenmore Contract 25-C3134 with Kimley-Horn and Associates
- \$2,283.12 Windows office licenses for STEP Committee members
- \$480 STEP Committee stipend requests

Diversity, Equity, Inclusion, and Accessibility (DEIA) Consideration:

[DEIA Strategic Plan](#) | [City's Equity Framework Toolkit](#)

Goal 7. Housing & Human Services - Provide access and referral to housing and human services to meet the basic needs of all residents

City Council Priorities or Budget Objective Being Addressed:

2025-2026 Priority #2: Preserve and increase availability of all types of housing at all income levels, including the needs of people experiencing homelessness

Chapter 18.20 Technical Terms and Land Use Definitions

Sections

...

[18.20.880 Electrical substation.](#)

[18.20.885 Emergent wetland.](#)

[18.20.890 Emergency.](#)

[18.20.891 Emergency Housing](#)

[18.20.892 Emergency Shelter](#)

[18.20.900 Repealed.](#)

[18.20.910 Enhancement.](#)

...

[18.20.1210 Geologist.](#)

[18.20.1230 Repealed.](#)

[18.20.1231 Good Neighbor Agreement](#)

[18.20.1233 Government/business services land uses.](#)

[18.20.1235 Repealed.](#)

...

[18.20.2035 Pedestrian walkway.](#)

[18.20.2040 Permanent school facilities.](#)

[18.20.2045 Permanent Supportive Housing](#)

[18.20.2050 Repealed.](#)

[18.20.2055 Personal service.](#)

...

[18.20.2920 Street frontage.](#)

[18.20.2925 Street tree.](#)

18.20.2927 STEP Housing

18.20.2930 Structure.

18.20.2935 Structural diversity.

...

18.20.2980 Repealed.

18.20.2990 Tower.

18.20.2995 Transitional Housing

18.20.3000 Trails.

18.20.3010 Repealed.

Definitions

18.20.880 Electrical substation.

“Electrical substation” means a site containing equipment for the conversion of high voltage electrical power transported through transmission lines into lower voltages transported through distribution lines and suitable for individual users. [Ord. 11-0329 § 3 (Exh. 1).]

18.20.885 Emergent wetland.

“Emergent wetland” means a wetland with at least 30 percent of the surface area covered by erect, rooted, herbaceous vegetation extending above the water surface as the uppermost vegetative stratum. [Ord. 11-0329 § 3 (Exh. 1).]

18.20.890 Emergency.

“Emergency” means an occurrence during which there is imminent danger to the public health, safety and welfare, or which poses an imminent risk to property, as a result of a natural or manmade catastrophe as so declared by the city manager. [Ord. 11-0329 § 3 (Exh. 1).]

18.20.891 Emergency Housing

“Emergency housing” means temporary indoor accommodations for individuals or families who are homeless or at imminent risk of becoming homeless that is intended to address the basic health, food, clothing and personal hygiene needs of individuals

or families. Emergency housing may or may not require occupants to enter into a lease or an occupancy agreement (RCW 36.70A.030(15)).

18.20.892 Emergency Shelter

“Emergency shelter” means a facility that provides a temporary shelter for individuals or families who are currently homeless. Emergency shelter may not require occupants to enter into a lease or an occupancy agreement. Emergency shelter facilities may include day and warming centers that do not provide overnight accommodations. (RCW 36.70A.030(16)).

18.20.900 Energy resource recovery facility.

Repealed by Ord. 11-0329 § 3 (Exh. 1).

18.20.910 Enhancement.

“Enhancement” means actions taken to improve habitat or water quality function and/or wildlife use in an existing viable wetland, stream, or habitat area or established buffers, by planting native species, removing nonnative species, installing habitat structures, installing environmentally compatible erosion controls, and any other measures approved by the City. Enhancement also includes actions performed to improve the quality of an existing degraded wetland, stream, or habitat area or buffer. [Ord. 24-0624 § 4 (Exh. B); Ord. 11-0329 § 3 (Exh. 1).]

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18.20.1210 Geologist.

“Geologist” means a person who has earned at least a Bachelor of Science degree in the geological sciences from an accredited college or university or who has equivalent educational training and at least four years of professional experience. [Ord. 11-0329 § 3 (Exh. 1).]

18.20.1230 Golf course facility.

Repealed by Ord. 11-0329 § 3 (Exh. 1).

18.20.1231 Good Neighbor Agreement

“Good Neighbor Agreement” means a voluntary agreement, in the form of a signed document between the operator of the STEP housing development and all applicable parties outlined in the agreement, detailing operating procedures, communication, and policies for the STEP housing development as it relates to its residents and the surrounding community as defined in the agreement.

18.20.1233 Government/business services land uses.

For purposes of Chapters 18.35 and 18.40 KMC, “government/business services land uses” means air transportation service; business service standard; construction and trade; fire or police facility; heavy equipment and truck repair; office; private stormwater management facility; public agency archive; public agency or utility yard; standalone parking; transportation; utility facility; vehicle or equipment rental; warehousing; and wholesale trade. [Ord. 17-0438 § 2 (Att. A); Ord. 11-0329 § 3 (Exh. 1).]

18.20.1235 Government facilities, City.

Repealed by Ord. 17-0609 [Ord. 11-0329 § 3 (Exh. 1).]

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18.20.2035 Pedestrian walkway.

“Pedestrian walkway” means a public walkway that connects public streets to other streets, walkways, public spaces, or drives. Public walkways should be lit for nighttime use and be aligned for maximum nighttime visibility. [Ord. 11-0329 § 3 (Exh. 1).]

18.20.2040 Permanent school facilities.

“Permanent school facilities” means facilities of a school district with a fixed foundation which are not relocatable facilities. [Ord. 11-0329 § 3 (Exh. 1).]

18.20.2045 Permanent Supportive Housing

“Permanent Supportive Housing” is subsidized, leased housing with no limit on length of stay that prioritizes people who need comprehensive support services to retain tenancy and utilizes admissions practices designed to use lower barriers to entry than would be typical for other subsidized or unsubsidized rental housing, especially related to rental history, criminal history, and personal behaviors. Permanent supportive housing is paired with on-site or off-site voluntary services designed to support a person living with a complex and disabling behavioral health or physical health condition who was experiencing homelessness or was at imminent risk of homelessness prior to moving into housing to retain their housing and be a successful tenant in a housing arrangement, improve the resident’s health status, and connect the resident of the housing with community-based health care, treatment, or employment services. Permanent supportive housing is subject to all of the rights and responsibilities defined in Chapter 59.18 RCW (RCW 36.70A.030(33)).

18.20.2050 Personal medical supply store.

Repealed by Ord. 70609 [Ord. 11-0329 § 3 (Exh. 1).]

18.20.2055 Personal service.

“Personal service” means an establishment primarily engaged in providing services to individuals, such as beauty and barber shops, retail laundry and drycleaning including coin-operated, clothing alterations and repair, diaper services, carpet and upholstery cleaning services, photo studios, shoe repair, pet grooming, and repair of personal or household items. This definition excludes automotive repair and service.

May include NAICS 5322 (Consumer Goods Rental), 5323 (General Rental Center), 541921 (Photo Studios), 811211 (Consumer Electronics Repair and Maintenance), and 8114 (Personal and Household Goods Repair and Maintenance). May include 812 (Personal and Laundry Services) except the following: 8122 (Death Care Services), 812332 (Industrial Launderers), and 81293 (Parking Lots and Garages). [Ord. 14-0391 § 2 (Exh. 1).]

...

18.20.2920 Street frontage.

“Street frontage” means any portion of a lot or combination of lots which directly abut a street. [Ord. 11-0329 § 3 (Exh. 1).]

18.20.2925 Street tree.

“Street tree” means trees located within the street right-of-way, adjacent to public or private streets, including undeveloped areas. [Ord. 11-0329 § 3 (Exh. 1).]

18.20.2927 STEP Housing

“STEP Housing” refers to Emergency shelter, Transitional housing, Emergency housing, and Permanent supportive housing. See definitions for those individual terms.

18.20.2930 Structure.

“Structure” means anything permanently constructed in or on the ground, or over the water; excluding fences eight feet or less in height, decks less than 18 inches above grade, paved areas, and structural or nonstructural fill. [Ord. 11-0329 § 3 (Exh. 1).]

18.20.2935 Structural diversity.

“Structural diversity” means the relative degree of diversity or complexity of vegetation in a wildlife habitat area as indicated by the stratification or layering of different plant

communities (e.g., ground cover, shrub layer, and tree canopy), the variety of plant species, and the spacing or pattern of vegetation. [Ord. 24-0624 § 4 (Exh. B).]

...

18.20.2980 Theatrical production services.

Repealed by Ord. 76094 [Ord. 11-0329 § 3 (Exh. 1).]

18.20.2990 Tower.

“Tower” means any wireless communications structure that is designed and constructed primarily for the purpose of supporting one or more antennas. “Tower” includes a lattice tower or monopole. “Tower” does not include a replacement utility pole or an amateur (ham) radio facility. [Ord. 16-0426 § 4 (Att. B).]

18.20.2995 Transitional Housing

“Transitional housing” means a project that provides housing and supportive services to homeless persons or families for up to two years and that has as its purpose facilitating the movement of homeless persons and families into independent living. (RCW 84.36.043(3)(c)). [Ord. 4393 § 1 (Exh. A), 2025].

18.20.3000 Trails.

“Trails” means manmade pathways designed and intended for use by pedestrians, bicyclists, equestrians, and/or recreational users. [Ord. 11-0329 § 3 (Exh. 1).]

18.20.3010 Transfer station.

Repealed by Ord. 76094 [Ord. 11-0329 § 3 (Exh. 1).]

Kenmore Municipal Code Edits

Primer

The format of Kenmore Municipal Code edits is as follows:

- Code Section Title
- Table Number within the section
- Table as is in the section with proposed edits written in red underlined text.
- Footnotes use the next highest number after the existing series of footnote numbers. Ex: last footnote number is “Temporary lodging³⁷” then the first footnote used for the code edits will be “Transitional Housing³⁸”
 - This occurs regardless of which column the edit occurs.
- Footnotes are to be added after the last existing footnote in the appropriate section

18.21.020 Residential Zones R-1, R-4 and R-6

Table A. R-1, R-4 and R-6 Zones Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Air.transportation.service ¹	Ambulatory.surgery.center ²⁵	Adult.entertainment.business
Arts?entertainment? indoor ^{2,3}	Arts?entertainment?outdoor ²⁶	Animal.kennel-shelter
Day.care ⁴	Cemetery?columbarium.or. mausoleum ²⁷	Auction.house
Educational.service ⁵	College-university ²⁵	Automotive.sales.and.service? marine
Family.child_care.home ⁶	Community.residential.facility ²⁸	Automotive.sales.and.service? non_marine
Fire.or.police.facility ^{7,8}	Eating.and.drinking.place ^{3,29}	Business.service?intensive
Health.care.and.social. assistance ^{9,10}	Hospital ²⁵	Business.service?standard
Multiple_family.dwelling ¹¹	Manufactured.housing. community ³⁰	Cannabis.business
Office ¹²	Personal.service ³¹	Cannabis.cooperative

Table A. R-1, R-4 and R-6 Zones Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Park ¹³	Recreational.facility?indoor ^{3,16,32}	Construction.and.trade
~~Permanent.Supportive. Housing³⁰~~	Regional.land.use ^{33,34,35}	Funeral.home-erematory
Recreational.facility? outdoor ^{14,15,16}	Retail.sales ^{31,36}	Laboratory
Religious.institution ¹⁷	Temporary.lodging ³⁷	Manufacturing?heavy
Resource.land.use ¹⁸		Manufacturing?light
Single.detached.dwelling. unit ^{19,20}		Mobile.food.service
Standalone.parking ²¹		Retail.sales?bulk
Supportive.living.facility ²²		Secure.facility
~~Transitional Housing³⁸~~		Transportation
Utility.facility ^{23,24}		Vehicle.or.equipment.rental
		Vehicle.refueling.station
		Warehousing
		Wholesale.trade

³⁸ Establishment of a Good Neighbor Agreement between the developer of the property and the City of Kenmore is recommended for all Transitional Housing?Permanent Supportive Housing?and Emergency Housing developments;.

18.21.040 Residential Zones R-12, R-18 and R-24

Table C. R-12, R-18, and R-24 Zones Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Air.transportation.service ¹	Ambulatory.surgery.center ²⁵	Adult.entertainment.business
Arts?entertainment?indoor ^{2,3}	Arts?entertainment?outdoor ²⁶	Animal.kennel-shelter
College-university ^{4,5}	Cemetery?columbarium.or. mausoleum ²⁷	Auction.house

18.21.040 Residential Zones R-12, R-18 and R-24

Table C. R-12, R-18, and R-24 Zones Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Community.residential.facility	Eating.and.drinking.place ^{3,28}	Automotive.sales.and.service?marine
Construction.and.trade ⁶	Hospital ⁵	Automotive.sales.and.service?non_marine
Day.care ⁷	Personal.service ²⁹	Business.service?intensive
Educational.service ⁸	Recreational.facility?indoor ^{3,30,31}	Business.service?standard
Family.child_care.home ⁹	Regional.land.use ³²	Cannabis.business
Fire.or.police.facility ^{10,11,12}	Retail.sales ^{29,33}	Cannabis.cooperative
Health.care.and.social.assistance ^{4,5,13}	Temporary.lodging ³⁴	Funeral.home-crematory
Manufactured.housing.community	Warehousing ³⁵	Laboratory
Multiple_family.dwelling		Manufacturing?heavy
Office ¹⁴		Manufacturing?light
Park ¹⁵		Mobile.food.service
<u>Permanent Supportive Housing³⁶</u>		Resource.land.use
Recreational.facility?outdoor ^{16,17}		Retail.sales?bulk
Religious.institution ¹⁸		Secure.facility
Single.detached.dwelling.unit ^{19,20}		Transportation
Standalone.parking ²¹		Vehicle.or.equipment.rental
Supportive.living.facility		Vehicle.refueling.station

18.21.040 Residential Zones R-12, R-18 and R-24

Table C. R-12, R-18, and R-24 Zones Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
<u>Transitional Housing</u> ³⁶		Wholesale.trade
Utility.facility ^{22,23,24}		

³⁶ [Establishment.of.a.Good.Neighbor.Agreement.between.the.developer.of.the.property.and.the.City.of.Kenmore.is.recommended.for.all.Transitional.Housing?Permanent.Supportive.Housing?and.Emergency.Housing.developments;.](#)

18.21.045 Residential Zone MHC

Table D. MHC Zone Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Day.care ¹	Community.residential.facility	Adult.entertainment.business
Family.child_care.home ²	Cemetery?columbarium.or.mausoleum	Air.transportation.service
Manufactured.housing.community ⁸	Educational.service ⁶	Ambulatory.surgery.center
Park ³	Religious.institution	Animal.kennel-shelter
<u>Permanent Supportive Housing</u> ⁸	Supportive.living.facility	Arts?entertainment?indoor
Single.detached.dwelling.unit ^{4,5}	Temporary.lodging ⁷	Arts?entertainment?outdoor
<u>Transitional.Housing</u> ⁸		Auction.house
		Automotive.sales.and.service?marine
		Automotive.sales.and.service?nonmarine
		Business.service?intensive

18.21.045 Residential Zone MHC

Table D. MHC Zone Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
		Business.service?standard
		Cannabis.business
		Cannabis.cooperative
		College-university
		Construction.and.trade
		Eating.and.drinking.place
		Fire.or.police.facility
		Funeral.home-erematory
		Health.care.and.social. assistance
		Hospital
		Laboratory
		Manufacturing?heavy
		Manufacturing?light
		Mobile.food.service
		Multiple_family.dwelling
		Office
		Personal.service
		Recreational.facility?indoor
		Recreational.facility?outdoor
		Regional.land.use
		Resource.land.use
		Retail.sales

18.21.045 Residential Zone MHC

Table D. MHC Zone Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
		Retail.sales?bulk
		Secure.facility
		Standalone.parking
		Transportation
		Utility.facility
		Vehicle.or.equipment.rental
		Vehicle.refueling.station
		Warehousing
		Wholesale.trade

⁸ Establishment of a Good Neighbor Agreement between the developer of the property and the City of Kenmore is recommended for all Transitional Housing?Permanent Supportive Housing?and Emergency Housing developments;.

18.24.020 Downtown Residential Zone

Table A. Downtown Residential Zone Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Arts?entertainment?indoor ¹	Eating.and.drinking.place ¹	Adult.entertainment.business
Auction.house?existing ²	Educational.service ³	Air.transportation.service
Business.service?standard ³	Health.care.and.social.assistance ¹⁰	Ambulatory.surgery.center
Community.residential.facility	Religious.institution	Animal.kennel-shelter
Day.care ⁴	Supportive.living.facility	Arts?entertainment?outdoor

Table A. Downtown Residential Zone Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Family.child_care.home ⁵	Utility.facility ¹¹	Automotive.sales.and.service? marine
Manufactured.housing. community ¹²		Automotive.sales.and.service? non_marine
Multiple_family.dwelling ⁶		Business.service?intensive
Office ³		Cemetery?columbarium.or. mausoleum
Park		College-university
<u>Permanent.Supportive. Housing⁷⁷</u>		Construction.and.trade
Personal.service ³		Fire.or.police.facility
Recreational.facility?indoor		Funeral.home-erematory
Retail.sales ^{3,7}		Hospital
Single.detached.dwelling.unit? existing.legal ⁸		Laboratory
Temporary.lodging ⁹		Manufacturing?heavy
<u>Transitional.Housing¹¹</u>		Manufacturing?light
		Marijuana.business
		Marijuana.cooperative
		Mobile.food.service
		Recreational.facility?outdoor
		Regional.land.use
		Resource.land.use
		Retail.sales?bulk
		Secure.facility

Table A. Downtown Residential Zone Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
		Standalone.parking
		Transportation
		Vehicle.or.equipment.rental
		Vehicle.refueling.station
		Warehousing
		Wholesale.trade

¹¹ Establishment.of.a.Good.Neighbor.Agreement.between.the.developer.of.the.property.and.the.City.of.Kenmore.is.recommended.for.all.Transitional.Housing?Permanent.Supportive.Housing?and.Emergency.Housing.developments;.

18.24A.20 Urban Residential Zone

Table A. Urban Residential Zone Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Day.care	Arts?entertainment?indoor ¹	Adult.entertainment.business
Eating.and.drinking.place ¹	Business.service?standard ¹	Air.transportation.service
Educational.service ¹	Emergency.Housing. ⁹⁵	Ambulatory.surgery.center
Mobile.food.service ²	Emergency.Shelter. ⁶	Animal.kennel-shelter
Multiple_family.dwelling ⁴	Health.care.and.social.assistance ¹	Arts?entertainment?outdoor
Office ¹	Manufacturing?light ^{1, 3}	Auction.house
Permanent.Supportive.Housing. ⁵	Park	Automotive.sales.and.service?.marine
Transitional.Housing. ⁵	Personal.service ¹	Automotive.sales.and.service?.non_marine
	Recreational.facility?indoor ¹	Business.service?intensive

18.24A.20 Urban Residential Zone

Table A. Urban Residential Zone Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
	Regional.land.use	Cannabis.business
	Retail.sales ^{1, 3}	Cannabis.cooperative
	Temporary.lodging ¹	Cemetery?columbarium.or. mausoleum
		College-university
		Community.residential.facility
		Construction.and.trade
		Family.child_care.home
		Fire.or.police.facility
		Funeral.home-crematory
		Hospital
		Laboratory
		Manufactured.housing.community
		Manufacturing?heavy
		Recreational.facility?outdoor
		Religious.institution
		Resource.land.use
		Retail.sales?bulk
		Secure.facility
		Single.detached.dwelling.unit
		Standalone.parking
		Supportive.living.facility

18.24A.20 Urban Residential Zone

Table A. Urban Residential Zone Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
		Transportation
		Utility facility
		Vehicle or equipment rental
		Vehicle refueling station
		Warehousing
		Wholesale trade

⁵ Establishment of a Good Neighbor Agreement between the developer of the property and the City of Kenmore is recommended for all Transitional Housing? Permanent Supportive Housing? and Emergency Housing developments;

⁶ See KMC.7 ~~4~~ ~~33~~ ~~6~~ ~~36~~ for certification requirements for indoor emergency shelter and indoor emergency housing developments;

18.25.020 Downtown Commercial Zone

Table A. Downtown Commercial Zone Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Adult entertainment business ¹	Air transportation service	Animal kennel-shelter
Arts?entertainment?indoor	Ambulatory surgery center	Business service?intensive
Arts?entertainment?outdoor ²	College-university	Cemetery?columbarium.or.mausoleum

Table A. Downtown Commercial Zone Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Auction.house?existing ³	Community.residential. facility	Construction.and.trade
Automotive.sales.and.service? marine?existing.legal ⁴	Fire.or.police.facility	Family.child_care.home
Automotive.sales.and.service?non_ marine?existing.legal ⁴	Hospital	Funeral.home-crematory
Business.service?standard	Laboratory	Manufacturing?heavy
Day.care	Religious.institution	Manufacturing?light
Eating.and.drinking.place	Utility.facility ¹⁶	Cannabis.business
Educational.service ⁵		Cannabis.cooperative
<u>Emergency.Housing</u> ^{7,27}		Recreational.facility?outdoor
<u>Emergency.Shelter</u> . ⁷		Resource.land.use
Health.care.and.social.assistance ^{6,7}		Retail.sales?bulk
Manufactured.housing.community ¹⁷		Secure.facility
Mobile.food.service ⁸		Single.detached.dwelling. unit
Multiple_family.dwelling ⁹		Supportive.living.facility
Office		Transportation
Park		Warehousing

Table A. Downtown Commercial Zone Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Permanent.Supportive.Housing⁷		Wholesale.trade
Personal.service		
Recreational.facility?indoor		
Regional.land.use ¹⁰		
Retail.sales ¹¹		
Standalone.parking ¹²		
Temporary.lodging ¹³		
Transitional.Housing⁷		
Vehicle.or.equipment.rental ¹⁴		
Vehicle.refueling.station ¹⁵		

[7 Establishment of a Good Neighbor Agreement between the developer of the property and the City of Kenmore is recommended for all Transitional Housing? Permanent Supportive Housing? and Emergency Housing developments;](#)

[17 See KMC.74.63.636 for certification requirements for indoor emergency shelter and indoor emergency housing developments;](#)

18.25A.030 Urban Corridor Zone

Table A. Urban Corridor West Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Adult.entertainment.business ¹ Ambulatory.surgery.center Animal.kennel-shelter ² Arts?entertainment?indoor Business.service?standard Cannabis.business Cemetery?columbarium.or. mausoleum ³ Community.residential.facility Day.care Eating.and.drinking.place ⁴ Educational.service <u>Emergency.Housing^{12, 13}</u> <u>Emergency.Shelter.⁷⁹</u> Funeral.home-erematory Health.care.and.social. assistance Laboratory ⁵ Manufacturing?light Mobile.food.service ⁶ Multiple_family.dwelling ⁷ Office	Arts?entertainment? outdoor ¹¹ College-university Fire.or.police.facility Laboratory ⁵ Recreational.facility? indoor ⁸ Recreational.facility? outdoor ¹³	Air.transportation.service Auction.house Automotive.sales.and.service? marine Automotive.sales.and.service? nonmarine Business.service?intensive Cannabis.cooperative Construction.and.trade Family.child_care.home Hospital Manufactured.housing. community Manufacturing?heavy Recreational.facility?outdoor ¹³ Regional.land.use Resource.land.use Retail.sales?bulk Secure.facility Single.detached.dwelling.unit Transportation Utility.facility

Table A. Urban Corridor West Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Park Permanent.Supportive.Housing¹² Personal.service Recreational.facility?indoor ⁸ Religious.institution Retail.sales ⁹ Standalone.parking ¹⁰ Supportive.living.facility Temporary.lodging Transitional.Housing⁷⁸		Vehicle.or.equipment.rental Vehicle.refueling.station Warehousing Wholesale.trade

[78.Establishment.of.a.Good.Neighbor.Agreement.between.the.developer.of.the.property.and.the.City.of.Kenmore.is.recommended.for.all.Transitional.Housing?Permanent.Supportive.Housing?and.Emergency.Housing.developments;.](#)

[79.See.KMC.74.33636.for.certification.requirements.for.indoor.emergency.shelter.and.indoor.emergency.housing.developments;](#)

18.25A.040 Urban Corridor East Subarea

Table B. Urban Corridor East Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Adult.entertainment.business ¹ Ambulatory.surgery.center	College-university Fire.or.police.facility	Air.transportation.service Arts?entertainment?outdoor ³

18.25A.040 Urban Corridor East Subarea

Table B. Urban Corridor East Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Animal.kennel-shelter ² Arts?entertainment?indoor Arts?entertainment?outdoor ³ Business.service?standard Cannabis.business Cemetery?columbarium.or.mausoleum ⁴ Community.residential.facility ⁵ Day.care Eating.and.drinking.place ⁶ Educational.service <u>Emergency.Housing^{14, 15}</u> <u>Emergency.Shelter.⁷</u> Funeral.home-erematory Health.care.and.social.assistance Laboratory ⁷ Manufacturing?light Mobile.food.service ⁸ Multiple_family.dwelling ^{13,14} Office	Hospital ⁵ Laboratory ⁷ Regional.land.use ⁵ Retail.sales?bulk ^{5,10}	Auction.house Automotive.sales.and.service?marine Automotive.sales.and.service?nonmarine Business.service?intensive Cannabis.cooperative Community.residential.facility ⁵ Construction.and.trade Family.child_care.home Hospital ⁵ Manufactured.housing.community Manufacturing?heavy Recreational.facility?outdoor ³ Regional.land.use ⁵ Resource.land.use Retail.sales?bulk ⁵ Secure.facility Single.detached.dwelling.unit Standalone.parking ¹¹

18.25A.040 Urban Corridor East Subarea

Table B. Urban Corridor East Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Park Permanent.Supportive Housing¹⁴ Personal.service Recreational.facility?indoor Recreational.facility?outdoor ^{3,9} Religious.institution Retail.sales Retail.sales?bulk ^{5,10} Standalone.parking ¹¹ Supportive.living.facility Temporary.lodging Transitional.Housing⁷⁰ Vehicle.refueling.station ¹³		Transportation Utility.facility Vehicle.or.equipment.rental Vehicle.refueling.station ¹² Warehousing Wholesale.trade

[⁷⁰Establishment.of.a.Good.Neighbor.Agreement.between.the.developer.of.the.property.and.the.City.of.Kenmore.is.recommended.for.all.Transitional.Housing?Permanent.Supportive.Housing?and.Emergency.Housing.developments;](#)

[⁷⁰.See.KMC.74.63.636.for.certification.requirements.for.indoor.emergency.shelter.and.indoor.emergency.housing.developments;](#)

18.25B.020 Waterfront Commercial

Table A. Waterfront Commercial Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Adult.entertainment.business ¹ Ambulatory.surgery.center Animal.kennel-shelter ² Arts?entertainment?indoor Arts?entertainment?outdoor ³ Automotive.sales.and.service? marine Business.service?standard Cannabis.business Cemetery?columbarium.or. mausoleum ⁴ Community.residential.facility. (CRF) Day.care Eating.and.drinking.place ⁵ Educational.service <u>Emergency.Housing^{13, 14}</u> <u>Emergency.Shelter.⁷⁰</u> Funeral.home-crematory Health.care.and.social. assistance Laboratory ⁶	Air.transportation. service College-university Fire.or.police.facility Hospital Laboratory ⁶ Regional.land.use	Auction.house Automotive.sales.and.service? nonmarine Business.service?intensive Cannabis.cooperative Construction.and.trade Family.child_care.home Manufactured.housing. community Manufacturing?heavy Resource.land.use Retail.sales?bulk Secure.facility Single.detached.dwelling.unit Utility.facility Warehousing Wholesale.trade

18.25B.020 Waterfront Commercial

Table A. Waterfront Commercial Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Manufacturing?light Mobile.food.service ⁷ Multiple_family.dwelling ⁸ Office Park <u>Permanent.Supportive Housing¹³</u> Personal.service Recreational.facility?indoor Recreational.facility?outdoor ^{3,9} Religious.institution Retail.sales Standalone.parking ¹⁰ Supportive.living.facility Temporary.lodging <u>Transitional.Housing⁷⁹</u>		
Transportation ¹¹ Vehicle.or.equipment.rental ¹² Vehicle.refueling.station		

⁷⁹Establishment.of.a.Good.Neighbor.Agreement.between.the.developer.of.the.property.and.the.City.of.Kenmore.is.recommended.for.all.Transitional.Housing?Permanent.Supportive.Housing?and.Emergency.Housing.developments;.

⁷⁰.See.KMC.7433635.for.certification.requirements.for.indoor.emergency.shelter.and.
indoor.emergency.housing.developments;

18.26.030 Regional Business North Subarea

Table A. Regional Business North Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Adult.entertainment.business ¹	College-university	Air.transportation.service
Ambulatory.surgery.center	Laboratory ⁶	Auction.house
Animal.kennel-shelter ²	Recreational.facility? outdoor ¹³	Automotive.sales.and.service? nonmarine ⁴
Arts?entertainment?indoor	Regional.land.use	Business.service?intensive
Arts?entertainment?outdoor	Utility.facility	Cannabis.cooperative
Automotive.sales.and.service? marine ³		Cemetery?columbarium.or. mausoleum
Automotive.sales.and.service? nonmarine ⁴		Family.child_care.home
Business.service?standard		Funeral.home-erematory
Cannabis.business		Hospital
Community.residential.facility		Manufactured.housing. community
Construction.and.trade		Manufacturing?heavy
Day.care		Resource.land.use
Eating.and.drinking.place ⁵		Retail.sales?bulk
Educational.service		Secure.facility
<u>Emergency.Housing^{14, 15}</u>		Single.detached.dwelling.unit
<u>Emergency.Shelter.⁷⁰</u>		Vehicle.or.equipment.rental ¹¹
Fire.or.police.facility		Vehicle.refueling.station

Table A. Regional Business North Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Health.care.and.social. assistance Laboratory ⁶ Manufacturing?light Mobile.food.service ⁷ Multiple_family.dwelling ⁸ Office Park <u>Permanent.Supportive. Housing¹⁴</u> Personal.service Recreational.facility?indoor Religious.institution Retail.sales Standalone.parking ⁹ Supportive.living.facility Temporary.lodging <u>Transitional Housing¹⁴</u> Transportation ¹⁰ Vehicle.or.equipment.rental ¹¹ Wholesale.trade		Warehousing

⁷⁰Establishment.of.a.Good.Neighbor.Agreement.is.recommended.for.all.Transitional.
Housing?Permanent.Supportive.Housing?and.Emergency.Housing.developments;

[79. See KMC.7433635 for certification requirements for indoor emergency shelter and indoor emergency housing developments;](#)

18.26.040 Regional Business East Subarea

Table B. Regional Business East Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Adult.entertainment.business ¹	College-university	Air.transportation.service
Ambulatory.surgery.center	Hospital	Automotive.sales.and.service? nonmarine ⁵
Animal.kennel-shelter ²	Laboratory ⁸	Business.service?intensive
Arts?entertainment?indoor	Regional.land.use	Cannabis.cooperative
Arts?entertainment?outdoor ³	Secure.facility ¹⁷	Family.child_care.home
Auction.house ⁴	Utility.facility	Manufactured.housing. community
Automotive.sales.and.service? marine		Manufacturing?heavy
Automotive.sales.and.service? nonmarine ⁵		Resource.land.use
Business.service?standard		Retail.sales?bulk
Cannabis.business		Single.detached.dwelling.unit
Cemetery?columbarium.or. mausoleum ⁶		Vehicle.refueling.s
Community.residential.facility		
Construction.and.trade		
Day.care		
Eating.and.drinking.place ⁷		
Educational.service		
Emergency.Housing^{18, 19}		

Table B. Regional Business East Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
<u>Emergency.Shelter.⁷⁹</u> Fire.or.police.facility Funeral.home-erematory Health.care.and.social. assistance Laboratory⁸ Manufacturing?light Mobile.food.service⁹ Multiple_family.dwelling¹⁰ Office Park <u>Permanent.Supportive.Housing¹⁸</u> Personal.service Recreational.facility?indoor Recreational.facility?outdoor^{3,11} Religious.institution Retail.sales¹² Standalone.parking¹³ Supportive.living.facility Temporary.lodging <u>Transitional Housing¹⁸</u> Transportation¹⁴		

Table B. Regional Business East Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Vehicle.or.equipment.rental Warehousing ¹⁵ Wholesale.trade		

⁷⁹Establishment.of.a.Good.Neighbor.Agreement.between.the.developer.of.the.property.and.the.City.of.Kenmore.is.recommended.for.all.Transitional.Housing?Permanent.Supportive.Housing?and.Emergency.Housing.developments;.

⁷⁹See.KMC.7433636.for.certification.requirements.for.indoor.emergency.shelter.and.indoor.emergency.housing.developments;

18.26.050 Regional Business West Subarea

Table C. Regional Business West Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Adult.entertainment.business ¹ Ambulatory.surgery.center Arts?entertainment?indoor Arts?entertainment?outdoor Automotive.sales.and.service?marine ² Business.service?standard Cannabis.business Community.residential.facility Day.care	College-university Laboratory ⁴ Manufacturing?light Regional.land.use	Air.transportation.service Animal.kennel-shelter Auction.house Automotive.sales.and.service?nonmarine Business.service?intensive Cannabis.cooperative Cemetery?columbarium.or.mausoleum Construction.and.trade Family.child_care.home

Table C. Regional Business West Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Eating.and.drinking.place ³ Educational.service <u>Emergency.Housing.^{13, 14}</u> <u>Emergency.Shelter.⁷⁰</u> Fire.or.police.facility Health.care.and.social.assistance Laboratory ⁴ Mobile.food.service ⁵ Multiple_family.dwelling ⁶ Office		Funeral.home-erematory Hospital Manufactured.housing.community Manufacturing?heavy Resource.land.use Retail.sales?bulk Secure.facility
Park <u>Permanent.Supportive.Housing¹³</u> Personal.service?Recreational.facility?indoor Recreational.facility?outdoor ⁷ Religious.institution Retail.sales ⁸ Standalone.parking ⁹ Supportive.living.facility Temporary.lodging <u>Transitional Housing¹³</u>		Single.detached.dwelling.unit Utility.facility Warehousing Wholesale.trade

Table C. Regional Business West Subarea Use Allowances

PERMITTED	CONDITIONALLY PERMITTED	PROHIBITED
Transportation ¹⁰ Vehicle.or.equipment.rental ¹¹ Vehicle.refueling.station ¹²		

⁷⁹Establishment.of.a.Good.Neighbor.Agreement.between.the.developer.of.the.property.and.the.City.of.Kenmore.is.recommended.for.all.Transitional.Housing?Permanent.Supportive.Housing?and.Emergency.Housing.developments;.

⁷⁰.See.KMC.74.33.636.for.certification.requirements.for.indoor.emergency.shelter.and.indoor.emergency.housing.developments;

18.29.040 Transit Oriented Development Overlay

Table A – TOD District Overlay Use Allowances

Permitted	Conditionally Permitted	Prohibited
Arts, entertainment, indoor ^{1,3}	Ambulatory surgery center ²	Adult entertainment business
Business service, standard ^{1,3}	Animal kennel/ shelter ^{2,5}	Air transportation service
Day care	College/ university ²	Arts, entertainment, outdoor
Eating and drinking place ¹	Fire or police facility ²	Auction house
Educational service ¹	Laboratory ²	Automotive sales and service, marine
<u>Emergency.Housing.^{7,8}</u>	Park	Automotive sales and service, nonmarine
<u>Emergency.Shelter.⁹</u>	Regional land use	Business service, intensive

18.29.040 Transit Oriented Development Overlay

Table A – TOD District Overlay Use Allowances

Permitted	Conditionally Permitted	Prohibited
Health care and social assistance ^{1,3}	Religious institution ²	Cemetery, columbarium or mausoleum
Manufacturing, light ^{1,3,5}	Supportive living facility ²	Community residential facility
Mobile food service ⁴		Construction and trade
Multiple-family dwelling ⁶		Family child-care home
Office ¹		Funeral home/ crematory
Personal service ^{1,3}		Hospital
Recreational facility, indoor ^{1,3}		Manufactured housing community
Retail sales ^{1,3,5}		Manufacturing, heavy
Temporary lodging ^{1,3}		Cannabis business
		Recreational facility, outdoor
		Resource land use
		Retail sales, bulk
		Secure facility
		Single detached dwelling unit
		Standalone parking
		Transportation
		Utility facility
		Vehicle or equipment rental
		Vehicle refueling station

18.29.040 Transit Oriented Development Overlay

Table A – TOD District Overlay Use Allowances

Permitted	Conditionally Permitted	Prohibited
		Warehousing
		Wholesale trade

*Establishment of a Good Neighbor Agreement between the developer of the property and the City of Kenmore is recommended for all Transitional Housing? Permanent Supportive Housing? and Emergency Housing developments.

*See KMC 7.4.33.636 for certification requirements for indoor emergency shelter and indoor emergency housing developments;

Development Code Process Updates

18.77.060 Expedited permit processing.

A. Certain projects containing extremely.low_income or very.low_income.affordable housing.units in the R-12, R-18, R-24, NB, CB, DR, DC, UC, UR, WC, RB, and PSP zones that require a Type 2 land use decision as described in KMC [19.25.020](#) or STEP Housing (per the City's definition in KMC 18.20) comprised of less than one-hundred dwelling units in any zone where they are a permitted use may have that process reduced to a Type 1 land use decision unless the proposal includes any of the following:

1. Short subdivision, including revisions and alterations;
2. Zoning variance;
3. Conditional use permit;
4. Shoreline permit; or
5. Critical area exceptions, variances or modifications under Chapter [18.55](#) KMC.

B. Any applicant for a project containing extremely.low_income or very.low_income.affordable.housing units or STEP Housing (per the City's definition in KMC 18.20) comprised of less than one-hundred dwelling units in any zone where they are a permitted use may request that review of the project be expedited. The request may be made on forms provided by the City. If a determination is made by the city.manager that City staffing or other permit priorities do not allow expedited permit review, the applicant may request that the project be reviewed by a consultant working for the City at the applicant's expense. [Ord. 23-0574 § 2 (Exh. A); Ord. 21-0521 § 2 (Exh. A).]

18.77.070 Emergency Housing and Emergency Shelter Certification

A. Sponsors or managing agencies of an indoor emergency.shelter or indoor emergency.housing facility must certify in writing that they have, between the date the permit application was approved and the date the certificate of occupancy was issued, completed and provided to the City the following:

1. Provided the name, if any, of the facility and the name and headquarters address of the managing entity;
2. Provided a description of any other programs operating in the building and copies of the applicable licenses and certifications held by the program;
3. Notified residents within 500 feet of the facility;
4. Conducted more than one community meeting;
5. Designated at least one point of contact authorized to make decisions and take corrective action in the case of emergencies;

6. Provided at least one telephone number to be used in emergencies; and provided documentation of operational policies or procedures for:
 - a. Promoting and addressing health and safety, inside the building and in areas immediately adjacent to the building;
 - b. Admissions, including a description of the populations the project will serve and potential sources of referral;
 - c. Program exit or transfer;
 - d. Handling complaints and grievances from occupants;
 - e. Health, fire, safety and occupancy; and
 - f. Staffing to provide services and resources to the population being served comparable to standard or customary practices for the particular type of housing being provided. The staffing policy or procedure may include but is not limited to, the number of staff or volunteers present during daytime and nighttime operations, staff or volunteer training, and other processes to provide services and resources to the population being served.

B. Upon receipt of a permit application for an indoor emergency shelter or indoor emergency housing with a proposed location within 500 feet of walking distance from another indoor emergency shelter or other indoor emergency housing or within 500 feet of walking distance from the physical grounds of a public or private school that existed before an indoor emergency shelter or indoor emergency housing, is in operation or has submitted a permit application, the City may enter into good-faith negotiations with the sponsor to establish additional and reasonable requirements pertaining to health and safety protocols. If the parties are unable to come to an agreement within 180 days of the permit being submitted, the City may deny the permit. If the City denies the permit, it will assist the sponsor in identifying suitable properties to site the indoor emergency shelter or indoor emergency housing. This section does not apply to indoor emergency shelters or indoor emergency housing designated for individuals under the age of 18, families, or victims of domestic violence.

18.77.080 STEP Housing Requirements

The City may enter into a contract with a sponsor proposing a STEP housing development to establish additional and reasonable operational requirements pertaining to health and safety protocols. Consideration for a entered into under this Section on the part of the City must include at least one of the following:

1. A donation of real property,
2. A long-term lease of land at least 50 years in length, or

3. A significant contribution from the general fund for capital or operating expenses to be mutually determined by the parties to the contract.

In the event the City unilaterally withdraws or modifies the consideration identified in this Section, in material breach of the contract, then the operational requirements specified in the contract no longer apply to the STEP housing. A sponsor's refusal to accept contract terms relating to the consideration may not be construed as failing to meet the requirements of other fund sources available other provisions relating to the siting of STEP housing.

19.25.020 Classifications of land use decision processes.

A. Land use decisions are classified into five types, based on the amount of discretion associated with each decision. Procedures for the five different types are distinguished according to who makes the decision, whether public notice is required, whether a public hearing is required before a decision is made and whether administrative appeals are provided. The types of land use decisions are listed in Exhibit A of this section.

1. Type 1 decisions are made by the city manager. Type 1 decisions are nonappealable administrative decisions that require the exercise of little or no administrative discretion. Public notice is not required for Type 1 decisions.

2. Type 2 decisions are made by the city manager. Type 2 decisions are discretionary decisions that are subject to administrative appeal.

3. Type 3 decisions are quasi-judicial decisions made by the hearing examiner following an open record hearing. Type 3 decisions may be appealed directly to King County superior court, pursuant to Chapter [36.70C](#) RCW, the Land Use Petition Act, based on the record established by the hearing examiner.

4. Type 4 decisions are quasi-judicial decisions made by the city council based on the record established by the hearing examiner.

5. Type 5 decisions are legislative decisions made by the city council.

B. Except as provided in KMC [16.75.060](#) and [19.35.160](#) or unless otherwise agreed to by the applicant, all Type 2, 3 and 4 decisions included in consolidated permit applications that would require more than one type of land use decision process may be processed and decided together, including any administrative appeals, using the highest-numbered land use decision type applicable to the project application. KMC [16.75.060](#) sets out the combined hearing authority for shoreline exemptions, shoreline substantial development permits, shoreline variances, and shoreline conditional use permits.

C. Certain development proposals are subject to additional procedural requirements beyond the standard procedures established in this chapter.

D. Land use permits that are categorically exempt from review under SEPA do not require a threshold determination (determination of nonsignificance (DNS) or determination of significance (DS)). For all other projects, the SEPA review procedures in Chapter [19.35](#) KMC are supplemental to the procedures in this chapter.

Exhibit A

LAND USE DECISION TYPES

TYPE 1 ²	Decision by city.manager; no administrative appeal	Building; demolition; moving; engineering; clearing and grading; sign; change of use and/or classification under KMC Title 15 ; accessory dwelling unit; home occupation; boundary line adjustment; right-of-way; street standards variance; adjustment under Chapter 13.35 KMC; shoreline exemption; temporary use; binding site plan; preliminary subdivision or short subdivision revision if not a substantial change; short plat alteration if not a substantial change; affordable housing project and STEP Housing ^{6,7} , as described in KMC 18.77.060 (A).
TYPE 2	Decision by city.manager; appealable to hearing.examiner; no further administrative appeal ^{1, 5}	Home industry; short subdivision; unit lot subdivision; preliminary short subdivision revision; short plat alteration; zoning variance; conditional use permit; shoreline substantial development permit; shoreline variance; shoreline conditional use permit; site plan review for uses allowed by zone; wireless communication facility minor adjustment under Chapter 18.60 KMC; approval of residential density incentives under KMC 18.80.060 (A)(2) or transfer of development credits under KMC 18.80.090 (A); reuse of public schools; reasonable use exceptions under

		KMC 18.55.180 ; public agency and utility exceptions under KMC 18.55.160 ; other critical areas exceptions, variances and decisions to require studies or to approve, condition or deny a development proposal based on Chapter 18.55 KMC; variances to exceptional. tree regulations as set forth in KMC 18.57.063 .
TYPE 3	Recommendation by city. manager; hearing and decision by hearing examiner; appealable directly to King County superior court, pursuant to Chapter 36.70C RCW, the Land Use Petition Act, on the record	Preliminary subdivision; plat alteration; preliminary subdivision revision; special use; wireless communication facility major adjustment under Chapter 18.60 KMC.
TYPE 4	Recommendation by city. manager; hearing and recommendation by hearing examiner; decision by city council on the record	Zone reclassification not related to a site-specific comprehensive plan land use map amendment ³ ; shoreline environment redesignation; plat vacation; short plat vacation; site plan review for uses not allowed by zone pursuant to Chapter 18.105 KMC; master plans other than those required in order to obtain a comprehensive plan amendment or related zoning map or text amendment.
TYPE 5	Hearing and recommendation by planning commission or other city council-appointed advisory body ⁴ ; decision by city council on the record. Appealable to Growth Management Hearings Board pursuant to Chapter 36.70A RCW	Comprehensive plan amendment; development regulation amendment; zoning map amendment related to a site-specific comprehensive plan land use map amendment; master plans required in order to obtain a comprehensive plan amendment or related zoning map or text amendment pursuant to Chapter 18.120 KMC.

6. Any project which qualifies as STEP Housing under the City's definition in KMC 18.20 is required to meet any noticing requirements that are required for permitted residential uses within that zone. A Good Neighbor Agreement between the developer and City of Kenmore is recommended.

7. It is recommended that any project which qualifies as STEP Housing under the City's definition in KMC 18.20 and contains over 100 Units hold one community meeting within fourteen (14) days of the City's acceptance of a completed permit application in coordination with City staff. Community meetings should be noticed in writing by to all property owners within 1,000 feet of the project (measured from each property line) and be open to the public.