

NOTE: If you wish to address the MWD Board of Directors during discussion of an agenda item, or during the PUBLIC FORUM, please complete a Speaker Request card (blue in color) and give it to the Board Secretary. Unless a detailed presentation of an agenda item is required by the Board of Directors, it is requested that each speaker limit comments to FIVE MINUTES. All testimony given before the Board of Directors is tape recorded.

<p><i>A G E N D A</i> <i>BIG BEAR MUNICIPAL WATER DISTRICT</i></p>
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BOARD OF DIRECTORS
Regular Meeting
March 18, 2010

PLACE: Big Bear Municipal Water District
40524 Lakeview Drive, Big Bear Lake, CA 92315

Next Resolution Number: 2010- 03

OPEN SESSION: 1:00 P.M.

- 1. CALL TO ORDER**
- 2. PLEDGE OF ALLEGIANCE**
- 3. DISCUSSION AND ACTION ON CLOSED SESSION ITEMS**
- 4. REPORTS**
 - A. General Manager
 - B. Lake Manager
 - C. Legal
 - D. Committee
 - E. Other
- 5. CONSENT CALENDAR**
 - A. Minutes of a Regular Meeting of March 4, 2010
 - B. Warrant List Dated March 12, 2010 for \$97,671.78
 - C. Consider approval of the Special Event Permit for the Jim Hall Memorial May Trout Classic to be held May 15 & 16, 2010 & approval of a fish plant contribution
 - D. Consider approval of a Special Event Permit for Fishin' for 50K Trout Derby to be held June 5 & 6, 2010
 - E. Consider approval of a Special Event Permit for the Big Bear Lake Rotary Club's annual 4th of July Fireworks display
 - F. Consider approval of a proposal from Big Bear Productions to provide outreach and information services

6. BUSINESS

- A. Consider approval of first reading by title only of Ordinance 43, an Ordinance of the Board of Directors of Big Bear Municipal Water District adopting District Operations Code and repealing Ordinance Nos 38, 40, 41, and 42 as it relates to commercial activities on the lake.
- B. Consider approval of a work plan for a proposed sampling and analysis plan for evaluating the chemical and physical properties of lake sediment at the Big Bear Marina.

7. PUBLIC FORUM

(The Board will receive comments from the public on items not on the agenda; no action is permitted on these items. Time set aside not to exceed 30 minutes total by all participants)

8. ANNOUNCEMENTS

9. DIRECTOR COMMENTS

10. ADJOURNMENT

NEXT MEETING: Open Session at 1:00 P.M.
Thursday, April 1, 2010
Big Bear Municipal Water District
40524 Lakeview Drive, Big Bear Lake, CA

***MINUTES OF A REGULAR MEETING OF
BIG BEAR MUNICIPAL WATER DISTRICT
HELD ON THURSDAY, MARCH 4, 2010***

CALL TO ORDER

President Fashempour called the Open Session to order at 1:00 PM. Those in attendance included Director Eminger, Director Suhay, Director Smith, Director Murphy, District Counsel Wayne Lemieux (via Skype), General Manager Scott Heule, and Board Secretary Vicki Sheppard.

REPORTS

General Manager Scott Heule reported the Lake level is the same as it was this time last year; 5.46 feet from full today compared to 5.45 feet a year ago. He stated the difference is the amount of snow still on the ground now compared to last year when the lake reached 4.85 feet from full by mid April. He stated that the District received direction from the Santa Ana Regional Water Quality Control Board to move forward with the design and installation of the ground water remediation collection trench at Big Bear Marina. He added that consultants have been notified to move forward and he will report more as it becomes available. Mr. Heule reported that seasonal hiring is still moving forward and the second round of testing for ramp attendants will be finishing up tomorrow. He explained that the new Launch Ramp Supervisor will be involved in the balance of the ramp attendant hiring process. He added that the maintenance position effort included testing a second group of applicants this morning since the first set of applicants did not generate a sufficient number of qualified individuals that Lake Manager, Mike Stephenson, thought he could select from. Mr. Heule commented on a recent article in the Sun newspaper that reported on the recent Fish & Game lawsuit and environmental document outcome. He reported that essentially they are being prohibited from stocking rainbow trout in water bodies tributary to steelhead habitat. He explained that steelhead trout (*Oncorhynchus mykiss*) is a rainbow trout that has spent a part of its life in the sea adding that there are no significant differences between rainbow trout and steelhead trout; however, the nature of their differing lifestyles has resulted in subtle differences in color, shape, and general appearance. He reported that because of the Seven Oaks Dam, Bear Creek is isolated from any steelhead habitat and therefore, the ruling will not adversely impact stocking of rainbow trout in the Lake. He added that in fact Lake Manager, Mike Stephenson, reports that we could receive an additional 15% allotment of Fish & Game stocked fish for 2010. Mr. Heule commented that the Directors should take a look at the office remodel before you leave today adding that it all has been done in-house so far. He added that Carrie Shirreffs will be ready to move out of her office into the new office probably next week. He reported that Mr. Stephenson is out sick with the flu. He asked Lake Operations Supervisor Travis Carroll to introduce the new Ramp Attendant Supervisor. Mr. Carroll introduced Tyler Cockrell highlighting some of his work experience and

adding that Tyler has been with the District for two years as a seasonal Lake Patrol Officer. Mr. Cockrell commented that he is very happy to be in his new position.

Director Murphy asked the difference in flows at Rathbun Creek versus Grout Creek commenting that Grout Creek seems to be flowing very fast. Mr. Heule stated that he does not have that information at this time. Director Smith stated that the news from Fish & Game is very good reporting that he had some comments from fishermen last year that the catch was poor. Mr. Heule explained that feeder fish were not planted last year and therefore the catch this year might not be much improved but the following year it should be much better. President Fashempour asked if there is a trout hatchery at Big Bear Lake. Mr. Heule stated that there is not one for trout.

District Counsel Wayne Lemieux reported that at the last closed session no action was taken.

APPROVAL OF CONSENT CALENDAR

Upon a motion by Director Suhay, seconded by Director Smith, the following consent items were unanimously approved:

- Minutes of a Regular Meeting of February 18, 2010
- Warrant List Dated February 26, 2010 for \$34,994.99

CONSIDER A CHANGE ORDER REQUEST FROM MWH FOR SOIL CHARACTERIZATION FOR THE BIG BEAR MARINA DREDGE PROJECT

Mr. Heule reported that MWH Americas has been retained by the District to sample soils in the proposed Marina dredge area to investigate potential gasoline contamination from the adjacent old gasoline line leak and to develop soil characteristics for the future dredging contractor. He explained that Staff has provided MWH with a large amount of data collected in two phases of the ACOE geotechnical investigations of the lake and MWH collaborated with Moffatt & Nichol Engineers (the dredge designer) to identify where samples should be collected in each of the proposed dredge areas for testing of engineering properties. He reported that MWH has also had prospective drilling contractors visit the site to review access and capabilities of the District work pontoon for use as a floating drilling platform. Mr. Heule explained that MWH has been asked by Staff to conduct a thorough review of the ACOE materials in order to better identify specific sampling locations within the proposed dredge footprint and further evaluate the suitability of dredge material reuse on the site. He added that this review task is a considerable effort because of the reports' size, including four, four-inch binders to contain each document. He reported that the original proposal that was authorized for this work did not anticipate the volume of basic data that was already available and would need to be reviewed and evaluated as part of this work. He explained that results of the soil sampling studies need to be compiled, plotted on maps of the proposed project, and evaluated for comparison to current land surface reuse standards adding that the additional work also requires potentially more comprehensive consultations with regulators with further assistance from the Districts' TMDL consultant Tim Moore. Mr. Heule stated that the Watershed/Lake Improvement Committee recommends approval of this change order request. Director Smith commented that the ACOE has mounds of data to go through.

Director Smith moved approval of a change order request form MWH for Soil Characterization for the Big Bear Marina Dredge Project. Director Suhay seconded the motion and it was unanimously approved.

CONSIDER POSTPONING THE CONTRACT AWARD FOR BIG BEAR MARINA DREDGE PROJECT CEQA PROPOSAL

Mr. Heule reported that in response to the Districts' request for proposals, three were received for the Big Bear Marina Dredge project CEQA work associated with the proposed dredge project. He explained that the proposals were reviewed by the Watershed/Lake Improvement Committee and Staff adding that Lilburn Corporation from San Bernardino proposed with a cost of \$71,405, Tom Dodson and Associates proposed with a cost of \$84,600 and MWH proposed with a cost of \$140,000. Mr. Heule reported that during their review of the Army Corps of Engineers (ACOE) geotechnical data associated with their other contract, MWH identified concerns that, if substantiated, might impact the dredged soil land reuse portion of the work. He explained that neither Lilburn Corporation or Tom Dodson and Associates provided as thorough an analysis as MWH and their proposed project staffing did not include scientists with the expertise needed to analyze and evaluate the ACOE data. Based on these findings, the Committee recommends that Lilburn Corporation and Tom Dodson and Associates be informed that their proposals were not selected. Mr. Heule stated that the Committee recommends that until further analysis of the ACOE data is completed by MWH all CEQA work should be placed on hold adding that the Committee further recommends that after the soil sampling and analysis work by MWH is completed Staff should negotiate a contract with MWH for the necessary CEQA document preparation.

Director Suhay moved approval to postpone award of any marina dredge project CEQA work until additional soil investigation work has been completed and to authorize staff to notify Lilburn Corporation and Tom Dodson & Associates that their proposals were not selected and that a contract for CEQA work will be negotiated with MWH at a later date. Director Eminger seconded the motion and it was unanimously approved.

PUBLIC FORUM

Mr. Steve PonTell, Pine Knot Landing, addressed the Board concerning commercial operations on the lake. He requested that the District enter into arbitration (with the marinas who wish to participate) and further asked for a delay in finalizing boat permit language until the issue is resolved. District Counsel, Wayne Lemieux, replied that if this is a formal request by the marinas, they would need to make their request in writing. Mr. PonTell stated that it is a formal request and they would make it in writing. Mr. Loren Hafen, Holloways Marina and North Shore Landing, stated that they would also be participating. President Fashempour asked District Counsel if the marinas could put their request in one letter. Mr. Lemieux advised that they could put their request in one letter listing the participating marinas.

ANNOUNCEMENTS

Mr. Heule reported that the Budget & Finance Committee will begin the FY 2010-11 budget process next week advising that if the Directors have comments to please submit them as soon as possible. He suggested the Directors take a look at the new book that they will be taking to Washington DC. He reported that the ramps will be opening in less than four weeks.

DIRECTOR COMMENTS

No comments were made

ADJOURNMENT

There being no further business, the meeting was adjourned at 1:24 P.M.

NEXT MEETING

Open Session at 1:00 P.M.
Thursday, March 18, 2010
Big Bear Municipal Water District
40524 Lakeview Drive, Big Bear Lake, CA

Vicki Sheppard
Secretary to the Board
Big Bear Municipal Water District

(SEAL)

**Big Bear Municipal Water District
 Computer & Manual Check Register
 Current and History Files, After 02/26/10
 Account 10010-00-001, Sessions 000000 to 001847**

**Active Sessions (Not Included in Report)
 001760, 001814**

Check	Payment / Vendor Information	Ck Date	Prty	Invoice	Session	Reference	Amount
Checking Account: 10010-00-001							
147858	PSTMST / U S Postmaster	03/08/10	2	PO12660	001816	PERMITMAIL	2145.00
PSTMST Subtotal :							2145.00
147859	SCOTTC / SCOTT CONSTRUCTION	03/09/10	2	516484	001823	MAINOFFREM	2650.00
SCOTTC Subtotal :							2650.00
147860	KENDAL / Kendall/Adams Group, Inc.	03/09/10	1	K2952	001832	CONTAMIN	3948.59
KENDAL Subtotal :							3948.59
147861	PERS / Public Employees' Retirement Syst	03/09/10	1	01201004	001832	PERS	4292.50
PERS Subtotal :							4292.50
147862	ACWAHB / ACWA Health Benefits Authority (H	03/10/10	2	05012010	001838	HEALTHINS	17169.48
ACWAHB Subtotal :							17169.48
147863	ADVCAR / Advanced Carpet Cleaner	03/10/10	2	109462	001838	FACILMAINT	548.00
147863		03/10/10	2	109486	001838	FACILMAINT	49.00
ADVCAR Subtotal :							597.00
147864	ALLPRO / All Protection Alarm Co.	03/10/10	2	35628	001838	FACMAINTSH	65.00
ALLPRO Subtotal :							65.00
147865	APPLIE / Applied Best Practices	03/10/10	2	19269	001838	PROFSVCS	1035.00
APPLIE Subtotal :							1035.00
147866	ATT785 / AT&T	03/10/10	2	02242010	001838	PHONE-LD	30.27
ATT785 Subtotal :							30.27
147867	BAUMGA / Richard A. Baumgartner, M.D.	03/10/10	2	022810	001838	OPSPHYSICA	180.00
BAUMGA Subtotal :							180.00
147868	BBDSPL / Big Bear Disposal	03/10/10	2	227078	001838	UTIL-MAIN	188.45
BBDSPL Subtotal :							188.45
147869	BBL / City of Big Bear Lake	03/10/10	2	10-00081	001838	MAINOFFREM	242.20
BBL Subtotal :							242.20
147870	BMARIN / Big Bear Marina	03/10/10	2	1011464	001838	PETRO-BOAT	93.22
BMARIN Subtotal :							93.22

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Check	Payment / Vendor Information	Ck Date	Prty	Invoice	Session	Reference	Amount
147871	BUTCHR / Butcher's Block & Building Materi	03/10/10	2	295356	001838	FACIL-BBM	15.33
147871		03/10/10	2	296281	001838	FACILMAINT	10.43
147871		03/10/10	2	296415	001838	FACILMAINT	13.85
147871		03/10/10	2	296565	001838	DAMMAINT	13.07
147871		03/10/10	2	296769	001838	SMTTOOLS	20.33
147871		03/10/10	2	296909	001838	SMTTOOLS	171.00
147871		03/10/10	2	297589	001838	FACILMAINT	5.26
BUTCHR Subtotal :							249.27
147872		03/10/10	2	296821	001838	MAINOFFREM	7.40
147872		03/10/10	2	296946	001838	MAINOFFREM	35.90
147872		03/10/10	2	297584	001838	MAINOFFREM	45.44
147872		03/10/10	2	297620	001838	MAINOFFREM	4.61
147872		03/10/10	2	297773	001838	MAINOFFREM	174.04
147872		03/10/10	2	298208	001838	MAINOFFREM	112.34
147872		03/10/10	2	298332	001838	MAINOFFREM	9.12
147872		03/10/10	2	298485	001838	MAINOFFREM	26.94
147872		03/10/10	2	298580	001838	MAINOFFREM	9.23
BUTCHR Subtotal :							425.02
147873	BVELEC / Bear Valley Electric	03/10/10	2	02232010	001838	UTIL-RAMP	462.98
147873		03/10/10	2	02242010	001838	UTIL-RAMP	592.93
147873		03/10/10	2	02252010A	001838	UTIL-AERAT	506.13
147873		03/10/10	2	02252010B	001838	UTIL-DAM	19.54
147873		03/10/10	2	02252010C	001838	UTIL-DAM	175.23
147873		03/10/10	2	02252010D	001838	UTIL-MAIN	9.62
147873		03/10/10	2	02262010	001838	UTIL-DAM	61.54
BVELEC Subtotal :							1827.97
147874	BVHOSP / Bear Valley Community Hospital	03/10/10	2	06357657	001838	OPSPHYSICA	129.00
147874		03/10/10	2	06357732	001838	OPSPHYSICA	129.00
147874		03/10/10	2	06357851	001838	OPSPHYSICA	129.00
BVHOSP Subtotal :							387.00
147875	CASH / Victoria Moore /Petty Cash	03/10/10	2	03102010	001838	PETTYCASH	150.20
CASH Subtotal :							150.20
147876	CBSOA / CA Boating Safety Officers Assoc.	03/10/10	2	04192010	001838	EMPTRAININ	110.00

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						CBSOA Subtotal :	110.00
147878	CNKLIN / Conklin Paints	03/10/10	2	80510	001838	FACILMAINT	8.31
						CNKLIN Subtotal :	8.31
147879	CNTYSV / Water & Sanitation	03/10/10	2	02282010A	001838		102.16
						CNTYSV Subtotal :	102.16
147880		03/10/10	2	02282010B	001838	UTIL-RAMPS	102.16
						CNTYSV Subtotal :	102.16
147881	COCKRE / Tyler Cockrell	03/10/10	2	02282010	001838	TRAINING	431.38
						COCKRE Subtotal :	431.38
147882	COMPVI / Computer Village	03/10/10	2	117164	001838	COMPCONSULT	700.00
						COMPVI Subtotal :	700.00
147883	COMSER / ComSerCo	03/10/10	2	MA50219283	001838	RADIOVCCO	255.00
						COMSER Subtotal :	255.00
147884	CPSHRS / CPS Human Resource Services	03/10/10	2	SOP28214	001838	PREEMPTRAI	454.25
						CPSHRS Subtotal :	454.25
147885	CSBISD / Information Services Department	03/10/10	2	0IW-082	001838	WEEDCONTRO	500.00
						CSBISD Subtotal :	500.00
147886	DIRCTV / DIRECTV	03/10/10	2	1201617428	001838	UTIL-RV	150.24
						DIRCTV Subtotal :	150.24
147887	DONS / Don's Machine	03/10/10	2	13479	001838	WORKBOATS	306.38
						DONS Subtotal :	306.38
147888	DWP / Department of Water and Power	03/10/10	2	02252010A	001838	UTIL-MAIN	73.60
147888		03/10/10	2	02252010B	001838	UTIL-MAIN	13.40
147888		03/10/10	2	02252010C	001838	UTIL-RAMPS	17.87
147888		03/10/10	2	02252010D	001838	UTIL-RAMP	113.70
147888		03/10/10	2	02252010E	001838	UTIL-RAMP	44.15
						DWP Subtotal :	262.72
147889	EADIEP / Eadie & Payne	03/10/10	2	RD113514	001838	SPECSVCSEP	1215.00
						EADIEP Subtotal :	1215.00
147890	GEI / GEI Consultants, Inc	03/10/10	2	502050	001838	WATERSHEDM	5144.95
147890		03/10/10	2	502272	001838	WATERSHEDM	5043.83

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**Active Sessions (Not Included in Report)
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<u>Check</u>	<u>Payment / Vendor Information</u>	<u>Ck Date</u>	<u>Prity</u>	<u>Invoice</u>	<u>Session</u>	<u>Reference</u>	<u>Amount</u>
						GEI Subtotal :	10188.78
147891	HENDER / David Henderson	03/10/10	2	02282010	001838	TRAINING	419.81
						HENDER Subtotal :	419.81
147892	IDEARC / SUPERMEDIA LLC	03/10/10	2	02192010	001838	PHONE-WEB	29.95
147892		03/10/10	2	03012010	001838	PHONE-MAIN	62.75
						IDEARC Subtotal :	92.70
147893	JPIA2 / ACWA/JPIA	03/10/10	2	2010-2011	001838	PROPINS	6536.00
						JPIA2 Subtotal :	6536.00
147894	LEMIEU / Lemieux & O'neill A Professional	03/10/10	2	20999M-127	001838	LEGALRETAI	3500.00
						LEMIEU Subtotal :	3500.00
147895	MASTER / FIRST BANKCARD CENTER	03/10/10	2	0226102328	001838	MASTER320	934.92
						MASTER Subtotal :	934.92
147896		03/10/10	2	0226107379	001838	MASTER507	625.00
						MASTER Subtotal :	625.00
147897		03/10/10	2	0226108541	001838	MASTER102	920.43
						MASTER Subtotal :	920.43
147898		03/10/10	2	0226104817	001838	MASTER505	625.00
						MASTER Subtotal :	625.00
147899		03/10/10	2	0226102502	001838	MASTER503	625.00
						MASTER Subtotal :	625.00
147900	MCMSTR / McMaster-Carr Supply Co.	03/10/10	2	48197221	001838	MAINOFFREM	316.67
						MCMSTR Subtotal :	316.67
147901	MCOYBR / Mountain Water Company	03/10/10	2	17618	001838	UTIL-MAIN	25.25
						MCOYBR Subtotal :	25.25
147902	MOFFAT / MOFFATT & NICHOL ENGINEERS	03/10/10	2	51083	001838	BBMDREDGE	1959.07
147902		03/10/10	2	51327	001838	BBMDREDGE	4904.00
						MOFFAT Subtotal :	6863.07
147903	MWH / MWH America, Inc.	03/10/10	2	1324115	001838	WATRMSTRRE	8220.12
						MWH Subtotal :	8220.12

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147904	NAPA / McConnell Motor Parts Inc.	03/10/10	2	902607	001838	ONROADVEHI	19.87
147904		03/10/10	2	908413	001838	WORKBOAT	16.92
147904		03/10/10	2	908414	001838	ONROADVEHI	18.31
147904		03/10/10	2	908514	001838	ONROADVEHI	-6.71
147904		03/10/10	2	908702	001838	WORKBOAT	162.14
147904		03/10/10	2	908806	001838	WORKBOAT	14.25
147904		03/10/10	2	909373	001838	WORKBOAT	31.52
147904		03/10/10	2	909661	001838	WORK BOAT	13.45
147904		03/10/10	2	909975	001838	WORK BOAT	6.79
NAPA Subtotal :							276.54
147905	NOS / NOS Communications, Inc.	03/10/10	2	02182010	001838	PHONE-LD	300.99
NOS Subtotal :							300.99
147906	PERS / Public Employees' Retirement Syst	03/10/10	2	0220103	001838	PERS	4292.50
PERS Subtotal :							4292.50
147907		03/10/10	2	0220104	001838	PERS	4292.50
PERS Subtotal :							4292.50
147908	PINNAC / PINNACLE DOOR & FINISH	03/10/10	2	12253	001838	PUBLICINFO	40.00
PINNAC Subtotal :							40.00
147909		03/10/10	2	12252	001838	MAINOFFREM	20.42
PINNAC Subtotal :							20.42
147910	QUILL / Quill Corporation	03/10/10	2	3947216	001838	OFFICSUPPL	25.42
147910		03/10/10	2	3954107	001838	OFFICSUPPL	17.00
QUILL Subtotal :							42.42
147911	RDIOSH / RadioShack	03/10/10	2	502229	001838	EQUIPMAINT	6.51
147911		03/10/10	2	504623	001838	EQUIPMAINT	4.88
RDIOSH Subtotal :							11.39
147912	RIFFEN / Riffenburgh Lumber Co.	03/10/10	2	285587	001838	MAINOFFREM	129.74
RIFFEN Subtotal :							129.74
147913	ROTARY / Rotary Club of Big Bear Lake	03/10/10	2	IP-0397	001838	MEMBERSHIP	111.00
ROTARY Subtotal :							111.00

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147914	TERMIN / TERMINIX INTERNATIONAL	03/10/10	2	293342206	001838	FACILMAINT	39.00
						TERMIN Subtotal :	39.00
147915	VERIZO / Verizon California	03/10/10	2	02282010	001838	PHONE-DAM	42.37
						VERIZO Subtotal :	42.37
147916		03/10/10	2	02252010	001838	PHONE-WS	36.77
						VERIZO Subtotal :	36.77
147917	WILLIA / Adam Williams	03/10/10	2	02282010	001838	TRAINING	282.97
						WILLIA Subtotal :	282.97
147918	XEROX / Xerox Corporation	03/10/10	2	46422883	001838	COPIERLEAS	484.43
						XEROX Subtotal :	484.43
147919	YEP / Walter Yep, Inc.	03/10/10	2	601	001838	PROFSVCSYE	1092.00
						YEP Subtotal :	1092.00
147920	BVPRIN / Bear Valley Printing	03/11/10	2	12863	001841	DISPATCHPR	3608.17
						BVPRIN Subtotal :	3608.17
147921	CCONNE / CONNELLY PUMPING SERVICES	03/12/10	2	8805	001847	PORTABLES	510.67
147921		03/12/10	2	8816	001847	PORTABLES	440.00
147921		03/12/10	2	8817	001847	PORTABLES	290.28
147921		03/12/10	2	8818	001847	PORTABLES	580.55
147921		03/12/10	2	8820	001847	PORTABLE	580.55
						CCONNE Subtotal :	2402.05
	Total For Check Account:			10010-00-001			97671.78
						Check Register Total :	97671.78

**BIG BEAR MUNICIPAL WATER DISTRICT
REPORT TO BOARD OF DIRECTORS**

MEETING DATE: *March 18, 2010*

AGENDA ITEM: *5C*

SUBJECT:

CONSIDER APPROVAL OF THE SPECIAL EVENT PERMIT FOR THE JIM HALL MEMORIAL MAY TROUT CLASSIC TO BE HELD MAY 15 & 16, 2010 & APPROVAL OF A FISH PLANT CONTRIBUTION

RECOMMENDATION:

The General Manager, Lake Manager and Operations Committee (Directors Suhay & Smith) recommend approval of this annual special event and the fish plant contribution.

DISCUSSION/FINDINGS:

The Fishing Association of Big Bear Lake is planning their annual May Trout Classic for the weekend of May 15 & 16, 2010. This is the 28th anniversary of the event and is one of the most popular on the Lake.

It is recommended that the budgeted amount of \$4,200 for a rainbow trout plant contribution be paid instead by donating the trout that were raised by the District in rearing cages. The value of the reared fish will be about double the contribution amount and the \$4,200 will be used for other District fish plants or projects. Approval is recommended as this event has always received strong support from the District. As in the past, the \$500 refundable deposit will be waived.

OTHER AGENCY INVOLVEMENT: None

FINANCING: None

Submitted by: Scott Heule, General Manager



Big Bear Municipal Water District

Lake Management

Board of Directors

Todd Murphy – Division 1
Paula Fashempour – Division 2
Skip Suhay – Division 3
John Eminger – Division 4
Vince Smith – Division 5

SPECIAL EVENT PERMIT FOR BIG BEAR LAKE

As of 2010 Big Bear Municipal Water District (hereinafter "District") grants a Special Event Permit to (hereinafter "Permittee") as follows:

Section 1. Event Described

Permittee may conduct only the event described on Exhibit "A", attached hereto and hereby incorporated by this reference. Permittee shall comply with laws, rules and regulations applicable to the event.

Section 2. Fees and Deposits

Within 30 days before the event: the Permittee shall pay the District \$100.00 to cover the cost of processing this Permit, and the Permittee shall deposit \$500.00 with the District to cover the cost of clean-up and other added expenses incurred by the District if Permittee fails to comply with this Permit. The part of the deposit, if any, not used by the District shall be refunded to the Permittee within 30 days after the event. The attached Fee Schedule (Exhibit "B") details rates for special services.

Section 3. Indemnification

A. Permittee shall indemnify and hold harmless and defend District, its officers, agents, employees and volunteers from and against: cost, liability and damages, including attorney's fees and litigation costs, arising out of any act or omission to, including any negligent act, or omission to act, by Permittee, its officers, agents, employees or volunteers arising out of activities permitted herein.

B. Permittee shall reimburse District and its directors, officers, employees, agents and/or volunteers, for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.

Section 4. Insurance

A. Permittee shall cause the District, its officers, agents and employees to be named as an additional or co-insurance under policies of commercial general liability insurance as broad as the following:

1. General Liability - one million dollars (\$1,000,000) per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to the project/location (with the ISO CG 2501 or insurer's equivalent endorsement provided to the District) or the general aggregate limit shall be twice the required occurrence limit.

2. The coverage shall contain no special limitations on the scope of protection afforded to the District, its officers, employees, agents and volunteers.
3. The permittee's insurance shall be primary insurance as respects the District, its officers, employees, agents and volunteers. Any insurance, pooled coverage or self-insurance maintained by the District, its officers, employees, agents and volunteers shall not contribute to it.
4. Any failure to comply with reporting or other provisions of the policies including breaches of warranties shall not affect coverage.
5. The permittee's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
6. Such liability insurance shall indemnify the permittee against loss from liability imposed by law upon, or assumed under contract by, the permittee for damages on account of such bodily injury (including death), property damage, personal injury and completed operations and products liability.
7. Such insurance shall be provided on a policy form written by underwriters through an agency satisfactory to the District which includes a cross-liability clause, and covers bodily injury and property damage liability, blanket contractual liability and completed operations liability.
8. Any deductible or self-insured retention must be declared to and approved by the District. At the option of the District, either the insurer shall reduce or eliminate such deductibles or self-insured retentions.
9. The insurer shall have a current A.M. Best's rating of no less than A-:VII or equivalent.

B. If applicable, the permittee shall cover or insure under the applicable laws relating to:

1. Workers' compensation insurance, all of their employees working on or about the event, regardless of whether such coverage or insurance is mandatory or merely elective under the law, and the permittee shall defend, protect and save harmless the District, its officers, employees, agents and volunteers from and against all claims, suits, and actions arising from any failure of the permittee to maintain such insurance. Before beginning work, permittee shall furnish to the District satisfactory proof that he has taken out for the period covered by the event, full compensation insurance for all persons employed directly by him in the event contemplated under this contract, has been obtained in accordance with the "Workers' Compensation and Insurance Act".
2. The permittee shall provide employer's liability insurance in the amount of, at least, \$1,000,000 per accident for bodily injury and disease.

C. Prior to execution of the contract, the permittee shall file with the District evidence of insurance from an insurer or insurers certifying to the coverage of insurance required herein. Such evidence shall include original copies of the ISO CG 2010 (endorsement form or insurer's equivalent) signed by the insurer's representative and certificate of insurance (Accord Form 25-S or equivalent). If such proof is not received 30 days prior to the event, the event may be canceled by the District's General Manager. All evidence of insurance shall be certified by a properly authorized officer, agent or qualified representative of the insurer and shall certify the names of the insured, any additional primary insurers, where appropriate, the type and amount of the insurance, the location and operations to which the insurance applies, the expiration date. The insurer will give by certified mail, written notice to the District at least thirty (30) days prior to the effective date of any cancellation, lapse or material change in the policy.

Section 5. Safety Regulations

The Permittee shall conduct the event with due care for the safety and welfare of participants and spectators, and in compliance with all laws, rules and regulations of federal, state, county or local agencies asserting jurisdiction. The Permittee shall attend two meetings with District representatives prior to the event described as follows:

A. Permit compliance meeting: Permittee shall demonstrate that all permit conditions have been met.

B. Skipper's and/or Safety meeting: Event organizers and participants shall meet with District representatives to have any questions answered and to receive an update of current Lake conditions which may affect event activities.

Section 6. Conditions

The Permittee shall comply with the conditions set forth on Exhibit C attached hereto and hereby incorporated by this reference.

Accepted by:

02/23/2010
Date

Permittee
JACQUE HALL, REGISTRAR
TREASURER/MAY TROUT CLASSIC

Date

General Manager

EXHIBIT A

DESCRIPTION OF EVENT

1. Name of Event: 2010 JIM HALL MEMORIAL MAY TROUT CLASSIC
2. Location: HOLLOWAY'S MARINA
3. Date(s): MAY 15 AND 16 - 2010
4. Describe Event: TROUT TOURNAMENT/TROUT CLASSIC
5. Estimated Number of Participants: 500
6. Estimated Number of Spectators: NOT KNOWN
7. Method of Limiting Attendance: PRE-REGISTRATION, ONLY
8. Method of Trash Collection and Disposal: SITE SERVICES
9. Proposed First-Aid Services: NORMAL SERVICES
10. Proposed Security Services: SITE SERVICES
11. Proposed Fire Protection Services: NORMAL SERVICES
12. Proposed Sanitation Facilities: SITE SERVICES
13. Parking Arrangements: SITE SERVICES
14. Name, Address and Telephone Number of Person Available Before and During Event with
Authority to Control Event: JASON HALL / TOURNAMENT DIRECTOR - 909-585-7352 (HOME)
909-800-3956 (CELL)
JACQUE HALL / REGISTRAR/TREASURER - 909-585-4007
(OR MAY TROUT CLASSIC COMMITTEE AT MWD SITE ON 5/14/2010
AND TOURNAMENT SITE ON 5/15/10 & 5/16/10
15. Perimeter control, if applicable:
N/A
(WE CONTROL THE WEIGH STATION, ONLY)

EXHIBIT B

FEE SCHEDULE

1. APPROVED SPECIAL EVENTS (except filming/photos):

Lake usage fee: Non-commercial -0-
Commercial \$200/event (or 5% of gross, whichever is greater)

*Lake Patrol or work boat services (one hour minimum):

Boat with operator \$110/hour
Each additional staff person \$ 30/hour

Other services: actual cost

*These fees will be deducted from the deposit where it is determined that additional Lake Patrol, weed harvesting or similar services will be necessary in the interest of health and safety.

2. GROUP SPECIAL EVENT PERMITS

A discounted boat permit fee for approved special events will be available at prevailing fees for the term of the event to those entrants not already having a boat permit. Any entrant participating for less than the full term of the event shall pay the normal daily permit fees. A minimum number of twenty-five special event boat permits shall be issued for the approved event to qualify for this special group rate. A group special event permit shall not be issued for major holidays or holiday weekends. Permittee shall be responsible for the sale of the special event boat permits. Proper remittance from the sale of these permits must be delivered to the District within three (3) days of the conclusion of the special event. Permittee shall be responsible for all permits including any missing permits. All other special event permit processing fees shall apply. Participants may upgrade the special event discounted boat permit to an annual boat permit by paying the difference between the special event permit fee and the annual permit fee. Upgrades to annual permits shall be handled at the District Administration office only.

**EXHIBIT C
SPECIAL CONDITIONS**

2010 MAY TROUT CLASSIC

1. All boating participants will pay the established boat permit fees. The Fishing Association of Big Bear Lake will sell Special Event daily boat permits through the tournament headquarters and will be responsible for any lost or missing permits.
2. Game Fish Contest Permit from the State of California, Department of Fish and Game and proof of liability insurance naming the District as additionally insured must be submitted to the District at least 30 days prior to the event.
3. It is understood that the Fishing Association of Big Bear Lake is a non-profit organization and, therefore, the District will waive the \$500 refundable deposit.

**BIG BEAR MUNICIPAL WATER DISTRICT
REPORT TO BOARD OF DIRECTORS**

MEETING DATE: *March 18, 2010*

AGENDA ITEM: *5D*

SUBJECT:

CONSIDER APPROVAL OF A SPECIAL EVENT PERMIT FOR "FISHIN' FOR 50K" TROUT DERBY TO BE HELD JUNE 5 & 6, 2010

RECOMMENDATION:

The General Manager, Lake Manager and Operations Committee (Director Suhay & Smith) recommend approval of this special event.

DISCUSSION/FINDINGS:

The Big Bear Lake Resort Association is planning their annual trout fishing derby for the weekend of June 5 & 6, 2010. The Resort Association along with the District will be planting ten tagged trout with one grand prize of \$50,000. Only one of the tagged fish will be eligible for the grand prize, with the other tagged fish eligible for various other prizes. The awards ceremony and a raffle drawing will be held at the Bartlett parking lot in the Village. This event is being held to promote the Lake and the community. The Resort Association is estimating a maximum of 750 participants.

As in other special events, the Resort Association will be authorized to sell Special Event reduced rate daily boat permits through the tournament headquarters. The Resort Association will be reimbursing the District \$2,000 for tagged fish and a fish plant.

OTHER AGENCY INVOLVEMENT: None

FINANCING: None

Submitted by: Scott Heule, General Manager



Big Bear Municipal Water District

Lake Management

Board of Directors

Todd Murphy – Division 1
Paula Fashempour – Division 2
Skip Suhay – Division 3
John Eminger – Division 4
Vince Smith – Division 5

SPECIAL EVENT PERMIT FOR BIG BEAR LAKE

As of 2010 Big Bear Municipal Water District (hereinafter "District") grants a Special Event Permit to (hereinafter "Permittee") as follows:

Section 1. Event Described

Permittee may conduct only the event described on Exhibit "A", attached hereto and hereby incorporated by this reference. Permittee shall comply with laws, rules and regulations applicable to the event.

Section 2. Fees and Deposits

Within 30 days before the event: the Permittee shall pay the District \$100.00 to cover the cost of processing this Permit, and the Permittee shall deposit \$500.00 with the District to cover the cost of clean-up and other added expenses incurred by the District if Permittee fails to comply with this Permit. The part of the deposit, if any, not used by the District shall be refunded to the Permittee within 30 days after the event. The attached Fee Schedule (Exhibit "B") details rates for special services.

Section 3. Indemnification

A. Permittee shall indemnify and hold harmless and defend District, its officers, agents, employees and volunteers from and against: cost, liability and damages, including attorney's fees and litigation costs, arising out of any act or omission to, including any negligent act, or omission to act, by Permittee, its officers, agents, employees or volunteers arising out of activities permitted herein.

B. Permittee shall reimburse District and its directors, officers, employees, agents and/or volunteers, for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.

Section 4. Insurance

A. Permittee shall cause the District, its officers, agents and employees to be named as an additional or co-insurance under policies of commercial general liability insurance as broad as the following:

1. General Liability - one million dollars (\$1,000,000) per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to the project/location (with the ISO CG 2501 or insurer's equivalent endorsement provided to the District) or the general aggregate limit shall be twice the required occurrence limit.

2. The coverage shall contain no special limitations on the scope of protection afforded to the District, its officers, employees, agents and volunteers.
3. The permittee's insurance shall be primary insurance as respects the District, its officers, employees, agents and volunteers. Any insurance, pooled coverage or self-insurance maintained by the District, its officers, employees, agents and volunteers shall not contribute to it.
4. Any failure to comply with reporting or other provisions of the policies including breaches of warranties shall not affect coverage.
5. The permittee's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
6. Such liability insurance shall indemnify the permittee against loss from liability imposed by law upon, or assumed under contract by, the permittee for damages on account of such bodily injury (including death), property damage, personal injury and completed operations and products liability.
7. Such insurance shall be provided on a policy form written by underwriters through an agency satisfactory to the District which includes a cross-liability clause, and covers bodily injury and property damage liability, blanket contractual liability and completed operations liability.
8. Any deductible or self-insured retention must be declared to and approved by the District. At the option of the District, either the insurer shall reduce or eliminate such deductibles or self-insured retentions.
9. The insurer shall have a current A.M. Best's rating of no less than A-:VII or equivalent.

B. If applicable, the permittee shall cover or insure under the applicable laws relating to:

1. Workers' compensation insurance, all of their employees working on or about the event, regardless of whether such coverage or insurance is mandatory or merely elective under the law, and the permittee shall defend, protect and save harmless the District, its officers, employees, agents and volunteers from and against all claims, suits, and actions arising from any failure of the permittee to maintain such insurance. Before beginning work, permittee shall furnish to the District satisfactory proof that he has taken out for the period covered by the event, full compensation insurance for all persons employed directly by him in the event contemplated under this contract, has been obtained in accordance with the "Workers' Compensation and Insurance Act".
2. The permittee shall provide employer's liability insurance in the amount of, at least, \$1,000,000 per accident for bodily injury and disease.

C. Prior to execution of the contract, the permittee shall file with the District evidence of insurance from an insurer or insurers certifying to the coverage of insurance required herein. Such evidence shall include original copies of the ISO CG 2010 (endorsement form or insurer's equivalent) signed by the insurer's representative and certificate of insurance (Accord Form 25-S or equivalent). If such proof is not received 30 days prior to the event, the event may be canceled by the District's General Manager. All evidence of insurance shall be certified by a properly authorized officer, agent or qualified representative of the insurer and shall certify the names of the insured, any additional primary insurers, where appropriate, the type and amount of the insurance, the location and operations to which the insurance applies, the expiration date. The insurer will give by certified mail, written notice to the District at least thirty (30) days prior to the effective date of any cancellation, lapse or material change in the policy.

Section 5. Safety Regulations

The Permittee shall conduct the event with due care for the safety and welfare of participants and spectators, and in compliance with all laws, rules and regulations of federal, state, county or local agencies asserting jurisdiction. The Permittee shall attend two meetings with District representatives prior to the event described as follows:

A. Permit compliance meeting: Permittee shall demonstrate that all permit conditions have been met.

B. Skipper's and/or Safety meeting: Event organizers and participants shall meet with District representatives to have any questions answered and to receive an update of current Lake conditions which may affect event activities.

Section 6. Conditions

The Permittee shall comply with the conditions set forth on Exhibit C attached hereto and hereby incorporated by this reference.

Accepted by:

2/15/10
Date


Permittee

Date

General Manager

EXHIBIT A

DESCRIPTION OF EVENT

1. Name of Event: FISHIN' FOR \$50K
2. Location: BIG BEAR LAKE
3. Date(s): 6/12/10 ~~6/12/10~~ 6 AM - 2 PM 6/13/10 6 AM - 2 PM
4. Describe Event: TROUT DERBY FOR TAGGED FISH + LARGEST FISH OVER 16"
5. Estimated Number of Participants: 750 MAX
6. Estimated Number of Spectators: 750
7. Method of Limiting Attendance: EVENT MAX 750
8. Method of Trash Collection and Disposal: N/A
9. Proposed First-Aid Services: 911 - LAKE PATROL
10. Proposed Security Services: N/A
11. Proposed Fire Protection Services: 911
12. Proposed Sanitation Facilities: N/A
13. Parking Arrangements: N/A
14. Name, Address and Telephone Number of Person Available Before and During Event with Authority to Control Event: ALAN SHARP P.O. BOX 1844 BIG BEAR LAKE 92315
909-725-7765
15. Perimeter control, if applicable: N/A

EXHIBIT B

FEE SCHEDULE

1. APPROVED SPECIAL EVENTS (except filming/photos):

Lake usage fee: Non-commercial -0-
Commercial \$200/event (or 5% of gross, whichever is greater)

*Lake Patrol or work boat services (one hour minimum):

Boat with operator \$110/hour
Each additional staff person \$ 30/hour

Other services: actual cost

*These fees will be deducted from the deposit where it is determined that additional Lake Patrol, weed harvesting or similar services will be necessary in the interest of health and safety.

2. GROUP SPECIAL EVENT PERMITS

A discounted boat permit fee for approved special events will be available at prevailing fees for the term of the event to those entrants not already having a boat permit. Any entrant participating for less than the full term of the event shall pay the normal daily permit fees. A minimum number of twenty-five special event boat permits shall be issued for the approved event to qualify for this special group rate. A group special event permit shall not be issued for major holidays or holiday weekends. Permittee shall be responsible for the sale of the special event boat permits. Proper remittance from the sale of these permits must be delivered to the District within three (3) days of the conclusion of the special event. Permittee shall be responsible for all permits including any missing permits. All other special event permit processing fees shall apply. Participants may upgrade the special event discounted boat permit to an annual boat permit by paying the difference between the special event permit fee and the annual permit fee. Upgrades to annual permits shall be handled at the District Administration office only.

EXHIBIT C
SPECIAL CONDITIONS

2010 FISHIN' FOR 50K

1. All boating participants will pay the established boat permit fees. The Resort Association of Big Bear Lake will sell Special Event daily boat permits through the tournament headquarters and will be responsible for any lost or missing permits.
2. Game Fish Contest Permit from the State of California, Department of Fish and Game must be submitted to the District at least 30 days prior to the event.
3. A contribution of \$2,000 to the District for fish stocking.
4. District will require a \$500 deposit to be returned if no additional expenses occur.

**BIG BEAR MUNICIPAL WATER DISTRICT
REPORT TO BOARD OF DIRECTORS**

MEETING DATE: *March 18, 2010*

AGENDA ITEM: *5E*

SUBJECT:

CONSIDER APPROVAL OF A SPECIAL EVENT PERMIT FOR THE BIG BEAR LAKE ROTARY CLUB'S ANNUAL 4TH OF JULY FIREWORKS DISPLAY

RECOMMENDATION:

The General Manager, Lake Manager and Operations Committee (Directors Suhay & Smith) recommend approval of this event.

DISCUSSION/FINDINGS:

The Rotary Club of Big Bear Lake has sponsored the annual 4th of July fireworks for a number of years. The fireworks will be located on a barge north/west of the Pine Knot Landing Fun Dock.

OTHER AGENCY INVOLVEMENT: Big Bear Lake Fire Department

FINANCING: None

Submitted by: Scott Heule, General Manager



Big Bear Municipal Water District

Lake Management

Board of Directors

Todd Murphy – Division 1
Paula Fashempour – Division 2
Skip Suhay – Division 3
John Eminger – Division 4
Vince Smith – Division 5

SPECIAL EVENT PERMIT FOR BIG BEAR LAKE

As of 2010 Big Bear Municipal Water District (hereinafter "District") grants a Special Event Permit to (hereinafter "Permittee") as follows:

Section 1. Event Described

Permittee may conduct only the event described on Exhibit "A", attached hereto and hereby incorporated by this reference. Permittee shall comply with laws, rules and regulations applicable to the event.

Section 2. Fees and Deposits

Within 30 days before the event: the Permittee shall pay the District \$100.00 to cover the cost of processing this Permit, and the Permittee shall deposit \$500.00 with the District to cover the cost of clean-up and other added expenses incurred by the District if Permittee fails to comply with this Permit. The part of the deposit, if any, not used by the District shall be refunded to the Permittee within 30 days after the event. The attached Fee Schedule (Exhibit "B") details rates for special services.

Section 3. Indemnification

A. Permittee shall indemnify and hold harmless and defend District, its officers, agents, employees and volunteers from and against: cost, liability and damages, including attorney's fees and litigation costs, arising out of any act or omission to, including any negligent act, or omission to act, by Permittee, its officers, agents, employees or volunteers arising out of activities permitted herein.

B. Permittee shall reimburse District and its directors, officers, employees, agents and/or volunteers, for any and all legal expenses and costs incurred by each of them in connection therewith or in enforcing the indemnity herein provided.

Section 4. Insurance

A. Permittee shall cause the District, its officers, agents and employees to be named as an additional or co-insurance under policies of commercial general liability insurance as broad as the following:

1. General Liability - one million dollars (\$1,000,000) per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to the project/location (with the ISO CG 2501 or insurer's equivalent endorsement provided to the District) or the general aggregate limit shall be twice the required occurrence limit.

2. The coverage shall contain no special limitations on the scope of protection afforded to the District, its officers, employees, agents and volunteers.
3. The permittee's insurance shall be primary insurance as respects the District, its officers, employees, agents and volunteers. Any insurance, pooled coverage or self-insurance maintained by the District, its officers, employees, agents and volunteers shall not contribute to it.
4. Any failure to comply with reporting or other provisions of the policies including breaches of warranties shall not affect coverage.
5. The permittee's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
6. Such liability insurance shall indemnify the permittee against loss from liability imposed by law upon, or assumed under contract by, the permittee for damages on account of such bodily injury (including death), property damage, personal injury and completed operations and products liability.
7. Such insurance shall be provided on a policy form written by underwriters through an agency satisfactory to the District which includes a cross-liability clause, and covers bodily injury and property damage liability, blanket contractual liability and completed operations liability.
8. Any deductible or self-insured retention must be declared to and approved by the District. At the option of the District, either the insurer shall reduce or eliminate such deductibles or self-insured retentions.
9. The insurer shall have a current A.M. Best's rating of no less than A-:VII or equivalent.

B. If applicable, the permittee shall cover or insure under the applicable laws relating to:

1. Workers' compensation insurance, all of their employees working on or about the event, regardless of whether such coverage or insurance is mandatory or merely elective under the law, and the permittee shall defend, protect and save harmless the District, its officers, employees, agents and volunteers from and against all claims, suits, and actions arising from any failure of the permittee to maintain such insurance. Before beginning work, permittee shall furnish to the District satisfactory proof that he has taken out for the period covered by the event, full compensation insurance for all persons employed directly by him in the event contemplated under this contract, has been obtained in accordance with the "Workers' Compensation and Insurance Act".
2. The permittee shall provide employer's liability insurance in the amount of, at least, \$1,000,000 per accident for bodily injury and disease.

C. Prior to execution of the contract, the permittee shall file with the District evidence of insurance from an insurer or insurers certifying to the coverage of insurance required herein. Such evidence shall include original copies of the ISO CG 2010 (endorsement form or insurer's equivalent) signed by the insurer's representative and certificate of insurance (Accord Form 25-S or equivalent). If such proof is not received 30 days prior to the event, the event may be canceled by the District's General Manager. All evidence of insurance shall be certified by a properly authorized officer, agent or qualified representative of the insurer and shall certify the names of the insured, any additional primary insurers, where appropriate, the type and amount of the insurance, the location and operations to which the insurance applies, the expiration date. The insurer will give by certified mail, written notice to the District at least thirty (30) days prior to the effective date of any cancellation, lapse or material change in the policy.

Section 5. Safety Regulations

The Permittee shall conduct the event with due care for the safety and welfare of participants and spectators, and in compliance with all laws, rules and regulations of federal, state, county or local agencies asserting jurisdiction. The Permittee shall attend two meetings with District representatives prior to the event described as follows:

A. Permit compliance meeting: Permittee shall demonstrate that all permit conditions have been met.

B. Skipper's and/or Safety meeting: Event organizers and participants shall meet with District representatives to have any questions answered and to receive an update of current Lake conditions which may affect event activities.

Section 6. Conditions

The Permittee shall comply with the conditions set forth on Exhibit C attached hereto and hereby incorporated by this reference.

Accepted by:

3-9-10
Date


Permittee

Date

General Manager

EXHIBIT A

DESCRIPTION OF EVENT

1. Name of Event: BIG BEAR LAKE 4TH OF JULY FIREWORKS SHOW
2. Location: BIG BEAR LAKE
3. Date(s): 7-4-10
4. Describe Event: FIREWORKS SHOW
5. Estimated Number of Participants: 20
6. Estimated Number of Spectators: 80-100K
7. Method of Limiting Attendance: N/A
8. Method of Trash Collection and Disposal: ROTARY CLUB OF BBL
9. Proposed First-Aid Services: BBLFD
10. Proposed Security Services: ROTARY CLUB OF BBL
11. Proposed Fire Protection Services: BBLFD
12. Proposed Sanitation Facilities: BIG BEAR DISPOSAL
13. Parking Arrangements: BV MUTUAL
14. Name, Address and Telephone Number of Person Available Before and During Event with Authority to Control Event:
SKIP SUHAY 909 744 4383
VINCE SMITH 909 838-5024
15. Perimeter control, if applicable: BBMW LAKE PATROL

EXHIBIT B

FEE SCHEDULE

1. APPROVED SPECIAL EVENTS (except filming/photos):

Lake usage fee: Non-commercial	-0-
Commercial	\$200/event (or 5% of gross, whichever is greater)

*Lake Patrol or work boat services (one hour minimum):

Boat with operator	\$110/hour
Each additional staff person	\$ 30/hour

Other services: actual cost

*These fees will be deducted from the deposit where it is determined that additional Lake Patrol, weed harvesting or similar services will be necessary in the interest of health and safety.

2. GROUP SPECIAL EVENT PERMITS

A discounted boat permit fee for approved special events will be available at prevailing fees for the term of the event to those entrants not already having a boat permit. Any entrant participating for less than the full term of the event shall pay the normal daily permit fees. A minimum number of twenty-five special event boat permits shall be issued for the approved event to qualify for this special group rate. A group special event permit shall not be issued for major holidays or holiday weekends. Permittee shall be responsible for the sale of the special event boat permits. Proper remittance from the sale of these permits must be delivered to the District within three (3) days of the conclusion of the special event. Permittee shall be responsible for all permits including any missing permits. All other special event permit processing fees shall apply. Participants may upgrade the special event discounted boat permit to an annual boat permit by paying the difference between the special event permit fee and the annual permit fee. Upgrades to annual permits shall be handled at the District Administration office only.

**EXHIBIT C
SPECIAL CONDITIONS**

YEAR 2010 4th OF JULY FIREWORKS

1. All District fees have been waived.
2. Proof of Liability Insurance is due at least 30 days prior to the event.
3. Proponents shall meet with the Lake Manager on the day of the event for approval of show location and appropriate perimeter and safety controls.

**BIG BEAR MUNICIPAL WATER DISTRICT
REPORT TO BOARD OF DIRECTORS**

MEETING DATE: March 18, 2010

AGENDA ITEM: 5F

SUBJECT:

CONSIDER APPROVAL OF A PROPOSAL FROM BIG BEAR PRODUCTIONS TO PROVIDE OUTREACH AND INFORMATION SERVICES

RECOMMENDATION:

The General Manager and the Budget & Finance Committee (Directors Fashempour & Murphy) recommend approval of this proposal.

DISCUSSION/FINDINGS:

Tom Hastain, Big Bear Productions, made a multimedia presentation to the Committee of services they provide for public outreach and information services. Big Bear Productions is a professional media production company with quality still and video photography, television program production, video advertising and web site development and hosting. Their proposal to the District is to video and produce unlimited, within reason, TV spots and infomercials for the District on whatever subject matter the District determines. They will photograph and video all District events, prepare and manage a You Tube site for the District and create and air a special segment of Amazing Big Bear specifically focused on the Lake and the District. These services would be provided for a 12 month period beginning April 1, 2010 at a cost of \$8,800. Currently the District produces an annual newsletter, Lakeview's, at a cost of \$4,400. The Committee recommends that the contract with Big Bear Productions take the place of Lakeview's. A colorful postcard with details about access to the District web page and available video spots would be mailed in-lieu of the newsletter. A spot could be produced and accessed at the web page that provides the same information as a typical Lakeview's publication. A copy of the proposed agreement is attached.

OTHER AGENCY INVOLVEMENT: None

FINANCING: The Committee proposes funding \$733 per month using Lakeview's budget in the current fiscal year and budgeting for the balance and ongoing expense in Fiscal year 2010-11.

Submitted by: Scott Heule, General Manager



PO Box 2524 **909 584 2666**
Big Bear City CA **909 709 7538**
92314
tom.bbp@gmail.com
www.bigbearproductions.net

Proposal/ Agreement

Bill To:
Big Bear Municipal Water District
ATT: Scott Heule
PO Box 2863
Big Bear Lake CA 92315
40524 Lakeview DR
909 866 5796

Location/ Details:
 Provide 12 months of multimedia services to the Big Bear Municipal Water District utilizing all capabilities of Big Bear Productions staff and equipment. This includes Website development, web hosting and site updates, Video and photograph major events as needed or requested, Produce and air 30 second/1 min T.V. spots and air on Amazing Big Bear Show Channel 6. Produce and air Amazing Big Bear segment. This agreement will begin April 01, 2010 and terminate April 01, 2011. This agreement does not include hiring of talent outside of BBP nor CD & DVD manufacturing above master copies nor database management.

Item	Quantity	Price per unit	Equipment	Total
Annual multimedia provision	12 months		All necessary	\$8800.00
			Monthly payments of \$733.00 April, May & June of 2010	\$2199
			Balance due July 3, 2010	\$6601.00
			Total	\$8800.00

I have met with Tom Hastain of Big Bear Productions and agree to the aforementioned itemized services and or products. I fully understand that the cost's could be higher based on added services beyond their scope of expertise, difficult terrain, difficult set ups, or additional mileage beyond the mountain community.

Signed: _____ Date: _____
 Check # _____
 Visa, Mastercard, _____ EXP. Date: _____
 (circle one)

Make all checks payable to Big Bear Productions
Deposit Due 30 days prior to event unless previously discussed
Add 4% for credit card payment

**BIG BEAR MUNICIPAL WATER DISTRICT
REPORT TO BOARD OF DIRECTORS**

MEETING DATE: *March 18, 2010*

AGENDA ITEM: *6A*

SUBJECT:

CONSIDER APPROVAL OF FIRST READING BY TITLE ONLY OF ORDINANCE 43, AN ORDINANCE OF THE BOARD OF DIRECTORS OF THE BIG BEAR MUNICIPAL WATER DISTRICT ADOPTING DISTRICT OPERATIONS CODE AND REPEALING ORDINANCE NOS. 38, 40, 41, AND 42 AS IT RELATES TO COMMERCIAL ACTIVITIES ON THE LAKE

RECOMMENDATION:

The General Manager, Lake Manager, Operations Manager, and Operations Committee (Directors Suhay and Smith) recommend approval of this Ordinance.

DISCUSSION/FINDINGS:

Adoption of this Ordinance will incorporate the previous amendments of Ordinance 38 into a single Ordinance and will add language further defining and controlling commercial activities below the high water elevation of the Lake. In some cases amendments have been made that improve clarity within the document by consolidation of repetitive language and definitions. The significant changes in the Ordinance are in Title 2, "Lake Operations" as it relates to Permits and permit Applications. All commercial activities occurring below the high water elevation of the lake will require licensing either as a concessionaire of a licensed marina or with a concession permit issued by the District. The amendment specifically requires all boats except those operated or rented by owners of commercial marina or their concessionaires to have lake permits. Changes proposed will prohibit boat rental businesses from launching vessels or using their vessels for training/teaching purposes below the high water elevation of the lake without a concession permit from the District or being a concessionaire of a licensed marina. If the business is a concessionaire of a marina they can conduct their activities at a marina or out of the marina site only. Changes to the ordinance also reference concession policies that have not been developed by the District. Provisions in the proposed Ordinance note that no commercial lake use concession permits will be issued by the District before April 1, 2011. This will allow the Board time to draft and adopt policies that will be consistent with District Lake Management objectives.

OTHER AGENCY INVOLVEMENT: None

FINANCING: None

Submitted by: Scott Heule, General Manager

ORDINANCE NO. 43

AN ORDINANCE OF THE BOARD OF DIRECTORS OF BIG BEAR MUNICIPAL WATER DISTRICT ADOPTING DISTRICT OPERATIONS CODE AND REPEALING ORDINANCE NOS. 38, 40, 41 and 42

THE BOARD OF DIRECTORS OF BIG BEAR MUNICIPAL WATER DISTRICT ORDAINS as follows:

TITLE 1. GENERAL

Section 1-1.101 Purpose and Scope

This Ordinance is ~~adopted to regulate~~ District operations and the use of Big Bear Lake. These rules and regulations may be referred to as the 'District's Operations Code'. Except as permitted by law, nothing contained herein shall affect rights which have been vested.

Section 1-1.102 Authority

This Code is adopted under the authority of the Municipal Water District Law of 1911 as set forth in Division 20 (commencing with §71000) of the Water Code and §§71610, 71660 and 71661 thereof.

Section 1-1.103 Definitions

Unless otherwise apparent from ~~content~~context, the following terms are defined for the purposes of this Code:

'Boat' or 'vessel' - a device or watercraft used for boating or sailing, including float-tubes and sailboards

'Commercial activities' - means activities involving use of the Lake and Shorezone below the high water elevation ~~other than special events or commercial boat landing operations, which are undertaken for monetary or other good and valuable consideration~~ for gain or profit.

'Commercial Boat Landings' - means the seventeen (17) commercial marina operations permitted by the District's predecessor in interest, Bear Valley Mutual Water Company, and assigned to the District pursuant to the judgment entered in the case known as "Big Bear

Municipal Water District v. North Fork Water company, et al, Case No. SCV65493 (“1977 Judgment”).

~~'Board'—the Board of Directors of the District~~

~~'Code'—the District's Operations Code~~

'Dam' - Bear Valley Dam.

'Dock' - a floating structure that provides pedestrian access to the Lake and wet storage of a boat.

'Dredge' or 'dredging' - the removal of earth, vegetation or other organic or inorganic materials from the shorezone.

'Fill' or 'filling' - the deposit of earth, vegetation or other organic or inorganic materials in or upon the shorezone.

~~'District'—Big Bear Municipal Water District~~

~~'District Facilities'—the Lake, public launch ramps, Stanfield Marsh Preserve and other District properties~~

~~'District Office'—the office of the District~~

~~'General Manager'—the General Manager of the District or General Manager's designee~~

'High Water Line' 'Elevation' - a contour line within Bear Valley at the Dam spillway of 6743.2' elevation (NGVD-29)

'Kite boarding' means water skiing with the aid of an aerial device.

'Lake' - Big Bear Lake.

'Mooring Buoy' - a buoy anchored to the Lake bottom for the express purpose of securing a boat, in compliance with California Boating law.

~~'Official Bulletin Boards'—bulletin boards used for the posting of official District notices located at: the District office, the Duane Boyer Launch Ramp and the MWD East Boat Ramp~~

'Park Rangers' - ~~those~~ officers and employees of the District authorized to ensure compliance with the provisions of all laws, ordinances and regulations in effect on the waters of the Lake and District properties.

'Safety boom line' - the floating barrier located approximately 500 feet east of the Dam to restrict boating access.

'Shorezone' - all lands within the reservoir area created by the Dam and lying below high water elevation, i.e. 6,743.2 feet NGVD-29.

~~'Recreational Vehicle' a vehicle with enclosed sleeping accommodations~~

~~'Secretary' the Secretary of the District appointed by the Board.~~

~~Section 1-1.104 Amendments~~

~~This Code may be amended from time to time by action of the Board through the adoption of a Code amendment to this Code.~~

Section 1-1.105-104 Fees

(a) When ever any provision of this Code provides for the issuance of a permit or license, the Board may establish a permit fees from time to time by resolution. The permit or license fee may include: an application fee, issuance fee, services fee and/or annual inspection fee. The amount of the fee shall not exceed the cost of providing the service for which the fee is charged.

(b) Application fees shall be paid when the application is submitted. Other fees shall be paid after approved but before issuance.

(c) Fees not paid when due are delinquent. The Board may provide for delinquency charges from time to time by resolution.

Section 1-1.106-105 Appeals & Hearings

(a) Whenever any provision of this Code provides for an appeal of a decision made by the District staff, the appeal shall be commenced and conducted as provided in this Section.

(b) Any person appealing a decision shall do so by filing a written request with the Secretary setting forth the decision and the grounds for appeal. The appeal shall be filed with the Secretary within 30 days after the applicant is notified of the decision.

(c) Appeals from a decision by any other officer or employee shall be considered by the General Manager whose decision shall be final. Appeals from a decision by the General Manager or the Board shall be considered by the Board whose decision shall be final.

(d) If the Secretary determines that the request for hearing does not comply with this Section, the request for hearing shall be returned to the applicant within 5 days of receipt with a statement describing the deficiency. If the Secretary determines that the request for hearing complies with this Section, the Secretary shall set the matter for hearing at least 10 days but not more than thirty (30) days after receipt of the request for hearing. (The applicant shall be mailed a written notice at least ten (10) days prior to the hearing.)

(e) At the time and place set for the hearing, the General Manager or Board, as the case may be, shall consider the oral and/or documentary evidence presented by the applicant and by the staff or General Manager, as the case may be. The hearing shall be conducted, as far as

practicable, in accordance with the California Administrative Procedures Act as set forth in Division 3 (commencing with §11500) of the Government Code.

Section 1-1.107-106 Violations

(a) ~~Except as otherwise specified,~~ **v**Violation of this Code constitutes an infraction punishable by a fine of not to exceed \$100.00 for the first offense, by a fine of not to exceed \$200.00 for the second offense within 12 months, and by a fine of not to exceed \$500.00 for the third and subsequent offense within 12 months.

(b) Violation of ~~any provision of this Code~~ **also** constitutes a public nuisance.

(c) Violation of this Code is also grounds for revocation of entitlement for use of the Lake issued by the District.

Section 1-1.108 Other Agencies

~~Except for the Title covering Shorezone Regulations, nothing contained herein shall restrict any governmental agency in the discharge of its official duties.~~

TITLE 2. LAKE OPERATIONS
CHAPTER 1. USE OF LAKE GENERAL

Section 2-1.101 Purpose

This chapter regulates the use of the Lake, and Scope

~~This Title regulates activities involving the use of the Lake. This Title establishes the conditions for the use of the Lake and the manner of such usage.~~

Section 2-1.102 Definitions

~~Unless otherwise apparent from context, the following terms are defined for the purposes of the Title:~~

- ~~(a) 'Boat' or vessel—any device or watercraft used for boating or sailing, including float tubes and sailboards~~
- ~~(b) 'Boating'—the use of a boat~~
- ~~(c) 'Scuba dive'—to descend and swim underwater using a self contained underwater breathing apparatus~~
- ~~(d) 'Fishing'—to catch or attempt to catch fish~~
- ~~(e) 'Non-registered boat'—non-motorized boats, sailboats eight (8) feet or less in length, float tubes and sailboards~~
- ~~(f) 'Registered boat'—motorized boats and sailboats over eight (8) feet in length~~
- ~~(g) 'Sailing'—to operate a sailboat especially for pleasure, including the use of a sailboard~~
- ~~(h) 'Special event'—any use of the Lake authorized and permitted by the District not described in Chapter 2-4 of this Title~~
- ~~(i) 'Swimming'—to propel one's self in water by natural means, including the full or partial use of inner tubes, air mattresses or other support devices~~
- ~~(j) 'Safety boom line'—the floating barrier located approximately 500 feet east of the Dam to restrict boating access~~
- ~~(k) 'Water skiing'—towing activities with persons either behind or alongside a boat, including, but not limited to, water skiing, wake boarding, barefoot skiing, inflatables or any other similar device.~~
- ~~(l) 'Kite boarding'—water skiing with the aid of an aerial device rather than a boat.~~

CHAPTER 2. BOATING

Section 2-2.101 Purpose and Scope

This Chapter regulates boating on the Lake.

Section 2-12.102 Permit

(a) ~~Except boats operated or rented for operation by owners of commercial boat landing licenses or their concessionaires, n~~ No person shall launch, use, operate or moor a boat on the Lake without a valid Lake Use Permit properly displayed.

(b) ~~Except for commercial activity conducted by a commercial boat landing operator, no person shall conduct a commercial activity at a commercial boat landing, no person shall conduct a commercial activity below the high water mark of the Lake below the high water elevation without securing a concession agreement from a commercial boat landing operator or the District.~~

-

Section 2-12.103 Boat Permit Applications

(a) ~~Any person who desires to obtain a permit for personal use of use of a boat on the Lake or who desires to secure a concession for commercial activity, shall make written application to the District on forms approved for such purpose. No Lake Use Permit shall be issued for commercial use of the Lake, except as pursuant to existing contracts.~~

(b) The General Manager shall ~~review each application and shall issue the boat permit~~ if the application is complete and the boat satisfies District boat standards ~~as set forth in this Code and in compliance~~ complies with state laws and regulations.

(c) If the General Manager recommends denial of the application, no further action shall be taken unless the applicant appeals the decision to the Board.

(d) The Board of directors shall consider approval of the concession agreement if the application is complete and satisfies District concession policies. No concession agreements for lake use will be issued before April 1, 2011.

~~(d) If the General Manager recommends denial of the application, no further action shall be taken unless the applicant appeals the decision to the Board.~~

Section 2-2.106 2-1.104. Boat Operations (From Ordinance 40)

(a) No person shall operate a boat on the Lake except in compliance with the permit, this Code and other requirements of law.

(b) No person shall operate a boat in a restricted area or speed control zone at a speed in excess of speed posted on navigation aids.

(c) Between sunset and 7:00 A.M., no person shall operate a boat in excess of 10 mph or engage in water ski activities or personal watercraft operation.

(d) Boats engaged in water-ski activities shall use a counter-clockwise traffic pattern.

(e) A boat may exceed 5 mph inside the 5 mph buoy at a designated ski beach, provided the boat travels in the most direct route in a counter-clockwise direction.

(f) No person shall leave any boat, water-skis, ski equipment or similar devices unattended on the Lake.

(g) No more than two tow lines at one time shall be used for water-ski activities.

(h) No person shall tow an aerial device from a boat without obtaining prior District authorization.

(i) No person shall operate any boat at a speed in excess of 35 mph except during a race or other event approved by the District.

(j) No person shall park or leave unattended any boat in the water at a District boarding dock for more than fifteen (15) minutes. The boarding docks are for loading and unloading of passengers only.

(k) No person shall allow any boat which is in his or her custody or control to be used or operated by any individual who is not competent to do so safely.

(l) No person shall use a trailer to launch a boat at other than a designated launch ramp.

(m) No person shall beach or secure a boat to shore overnight other than a lakefront property owner, who may do so directly in front of their property.

(n) Persons operating a personal watercraft above wakeless speeds shall maintain a distance of at least 100 feet from all other boats.

(o) Operators and passengers of personal watercraft shall wear personal flotation devices.

(p) No person shall launch, operate, use or moor any boat in the area between Stanfield Cutoff and Division Road, also known as Stanfield Marsh.

(q) No unauthorized boats of any kind shall be operated on the Lake in the area between the Dam and the safety boom line.

(r) No person shall use or operate a boat for commercial purposes without prior District authorization.

(s) It is recommended that sailboard operators wear a United States Coast Guard approved personal flotation device.

(t) Manually propelled boats less than twelve (12) feet in length shall be limited to operate only between the 5 mph buoys and the shore.

(u) No kite boarding shall be allowed

(v) No person shall operate a remote control boat or other remote control object at the public launch ramp facilities or in the Stanfield Marsh.

(w) Commercial marina tour boats shall be subject to the following restrictions: (From

Ordinance 41)

i. There shall be no overnight mooring outside the marina's zone of influence or if there is no zone of influence, there shall be no overnight mooring at any dock other than a dock within the marina's area of operation, except as may be authorized at another commercial marina.

ii There shall be no mooring for any purpose for more than 60 minutes at a time at any dock outside the marina's zone of influence or the area of marina operations except as may be authorized at another commercial marina.

Section 2-1.104-105 Boat Standards

(a) The maximum allowable boat size shall be twenty-six (26) feet in length and eight and a half feet (8 feet 6 inches) wide, except as described below in (b) of this section. Commercial boat landings may be authorized to operate tour boats of more than 26' in length and not to exceed sixty-five (65) feet in length upon review and approval by the District.

(c) Boats used for construction and maintenance purposes and exceeding the allowable boat size described above in (a) of this section require prior review and approval by the District.

(d) Compliance with the District's boat standards does not relieve the owner or operator of the boat from taking such further actions as are necessary to ensure safety.

(e) District vessels are exempt from the regulations set forth in this section.

Section 2 2.105 Suspension or Revocation of Permit

~~(a) The General Manager may suspend or revoke a permit whenever the permittee, owner or operator violates the terms and conditions of the permit, this Code or other requirements of law.~~

~~(b) The decision of the General Manager to suspend or revoke a permit may be appealed to the Board.~~

Section 2-1.106 Suspension or Revocation of Permitter Concession Agreement

(a) The General Manager may suspend or revoke a permit whenever the permittee, owner or operator violates the terms and conditions of the permit, this Code or other legal requirements.

(b) The General Manager may suspend or revoke a concession agreement whenever the concessionaire violates the agreement, this Code or legal requirements.

(c) The decision of the General Manager to suspend or revoke a permit or terminate a concession agreement may be appealed to the Board.

~~Section 2-12.107-106~~ **Special Use Areas Areas**

(a) The General Manager may set aside portions of the Lake for designated uses when ~~he or she finds that~~ such uses are appropriate but require separation from other uses ~~or special regulations~~.

(b) ~~When the General Manager establishes a~~ Special use areas, the area shall be clearly marked and special regulations shall be posted.

(c) Persons using the special use areas shall comply with such regulations as posted.

~~Section 2-2.108~~ **Restricted Areas**

~~No person shall enter, use, occupy or trespass in any area restricted by the District.~~

~~Section 2-2.109~~ **Violations**

~~The violation of any provision of this Chapter is an infraction.~~

CHAPTER 23. FISHING, SWIMMING AND OTHER ACTIVITIES

Section 2-23.101 Purpose and Scope

This Chapter establishes regulations for fishing, swimming, scuba diving and other activities on the Lake.

Section 2-23.102 Fishing

(a) No person shall fish in the Lake unless such person possesses a current valid California Fishing License as required by law.

(b) Fish may be taken from the Lake except as follows:

- (1) No fishing permitted from the Dam.
- (2) No fishing or taking of fish from within 200 feet of where fish have been artificially introduced to the Lake, i.e. "planted", for a period of 24 hours after the introduction.
- (3) No fishing or taking of fish from areas posted as such.

Section 2-23.103 Swimming and Scuba Diving

(a) No person shall swim in the Lake except within fifty (50) feet of shore, within a designated swimming area or within twenty (20) feet of a dock, and as necessary and incidental to water-skiing, personal watercraft or sailboard use, or in an emergency.

(b) No person shall swim in the Lake within twenty (20) feet of the public launch ramp boarding docks. The General Manager may prohibit swimming in designated areas along the shoreline by posting appropriate notices.

(c) No person shall scuba dive in the Lake without prior District authorization.

(d) No person shall swim in the area between the Dam and the safety boom line.

(e) No person shall swim in the area between Stanfield Cutoff and Division Road, also known as Stanfield Marsh.

Section 2-23.104 Travel on Lake Ice

(a) No person shall walk, play, ice skate or otherwise travel on ice or snow which is on the Lake.

(b) No person shall operate a snowmobile, all terrain vehicle, motorcycle, ice boat, automobile or other vehicle on ice or snow which is on the Lake.

Section 2-23.105 Amphibious Aircraft

No person shall use the Lake to takeoff or land an amphibious aircraft or other flying apparatus.

Section 2-3.108 Violations

~~The violation of any provision of this Chapter is an infraction.~~

CHAPTER 4. COMMERCIAL ACTIVITIES

Section 2 4.101 Purpose and Scope

~~This Chapter regulates all commercial activities involving use of the Lake and on District properties.~~

Section 2 4.102 Permit Required

~~(a) Commercial activities may be conducted on District property above the high water line of the Lake only pursuant to a permit issued by the District.~~

~~(b) Commercial activities may be conducted on the Lake pursuant to a commercial boat landing permit, or if commercial landings are unable to conduct an activity, pursuant to a permit issued by the District.~~

Section 2 4.103 Permit Application

~~(a) Any person who desires to obtain a commercial use permit shall make written application to the District on forms approved for such purpose by the General Manager.~~

~~(b) The General Manager shall review each application, and if approved by the Board, a permit shall be issued. If the General Manager denies the permit, no further action shall be taken unless the applicant appeals the decision to the Board.~~

Section 2 4.104 Standards

~~No permit shall be issued for an activity which does not meet District standards as established from time to time by resolution.~~

Section 2 4.105 Commercial Operations

~~No person shall conduct commercial activities on the Lake except in compliance with a commercial use permit and this Code.~~

Section 2 4.106 Suspension or Revocation of Commercial Use Permit

~~(a) The General Manager may suspend or revoke a commercial use permit whenever the permittee or operator violates the terms and conditions of the permit or this Code.~~

~~(b) The decision of the General Manager to suspend or revoke a commercial use permit may be appealed to the Board.~~

Section 2 4.107 Violations

~~The violation of any provision of this Chapter is an infraction.~~

CHAPTER 35. SPECIAL EVENTS

Section 2-35.101 Purpose and Scope

This Chapter regulates special events involving the Lake.

Section 2-35.102 Permit Required

No person shall conduct or participate in a special event unless a special event permit has been issued by the District.

Section 2-35.103 Permit Application

(a) Any person who desires to obtain a special event permit shall make written application to the District on forms approved for such purpose by the General Manager.

(b) The General Manager shall review each application and if approved, a permit shall be issued. If the General Manager denies the permit, no further action shall be taken unless the applicant appeals the decision to the Board.

Section 2-35.104 Standards

No person shall conduct a special event on the Lake except in compliance with a special event permit and this Code.

Section 2-35.105 Suspension or Revocation of Special Event Permit

(a) The General Manager may suspend or revoke a special event permit whenever the permittee or operator violates the terms and conditions of the permit or this Code.

(b) The decision of the General Manager to suspend or revoke a special event permit may be appealed to the Board.

~~**Section 2-5.106 Violations**~~

~~The violation of any provision of this Chapter is an infraction.~~

CHAPTER 46. SANITATION AND POLLUTION

Section 2-46.101 Purpose and Scope

This Chapter regulates sanitary and pollution control regulations upon all District property.

Section 2-46.102 Prohibited Acts

(a) No person shall deposit or allow the discharge of any litter, petroleum products, human or animal waste, waste products, including fish remains or a contaminating or polluting substance, into the waters of the Lake and tributaries to the Lake, or on the shore area or District property.

(b) Except as permitted by the San Bernardino County Environmental Health Department, no person shall allow waste from boat washing to discharge into the Lake or along the shore except into a waste disposal system that has been approved by the District.

(c) No person shall allow petroleum products to enter the Lake from bilge pumps or by any other method. Bilge pump operation is permitted provided the bilge water is free of oil and other contaminants.

(d) No person shall discharge or deposit any fish, animal or plant into the Lake without approval of the District and the Department of Fish and Game.

(e) No person shall cause the discharge of contents from marine toilet holding tanks into the Lake.

Section 2-4.103. **Invasive Species Prevention** *(From Ordinance 42)*

(a) This section adopts regulations to prevent importation of invasive species, such as quagga mussels, to Big Bear Lake from contaminated vehicles, boat trailers and boats.

(b) No person shall place a vessel on Big Bear Lake unless the General Manager, or designee, determines the vessel, trailer, and other launching equipment (“associated equipment”) is free of invasive species. As used herein: vessel means every description of water craft, including non-displacement craft and seaplanes, used or capable of being used as a means of transportation on water; and associated equipment means equipment needed or useful to the full enjoyment of a vessel.

(c) A vessel and associated equipment is free of invasive species if the General Manager, or designee, determines:

(1) The vessel and associated equipment have not been in contact with fresh water for at least fourteen days; or

(2) The vessel and associated equipment are cleaned prior to launch by persons certified for such purpose by the District.

(d) General Manager, or designee, shall issue a certificate for vessels and associated equipment which are free of invasive species.

(e) The District may establish fees for inspection and cleaning by resolution.

(f) Violation of this section is an infraction. In addition to penalties for infractions, District may revoke a boat/vessel permit issued to a person who has not complied with this section and may refuse to issue a boat/vessel permit for a period of up to five years.

~~Section 2-5.106- Violations~~

~~The violation of any provision of this Chapter is an infraction.~~

TITLE 3. SHOREZONE REGULATIONS
CHAPTER 1. DISTRICT FACILITIES ~~GENERAL~~

Section 3-1.101 Purpose ~~and Scope~~

~~This~~

This Title Title regulates activities which affect the shorezone of the Lake as distinguished from activities involving the use of the Lake. This Title regulates the manner by which the shorezone may be altered by dredge or fill activities or by the installation of docks. This Title also regulates how such dredge or fill areas and docks are to be maintained and operated.

~~Section 3-1.102 Definitions~~

~~Unless otherwise apparent from context, the following terms are defined for the purposes of this Title:~~

~~(a) 'Mooring Buoy'—a buoy anchored to the Lake bottom for the express purpose of securing a boat, in compliance with California Boating law.~~

~~(b) 'Dock'—a floating structure that provides pedestrian access to the Lake and wet storage of a boat.~~

~~(c) 'Dredge' or 'dredging'—the removal of earth, vegetation or other organic or inorganic materials from the shorezone.~~

~~(d) 'Fill' or 'filling'—the deposit of earth, vegetation or other organic or inorganic materials in or upon the shorezone.~~

~~(e) 'Shorezone'—all lands within the reservoir area created by the Dam and lying below the spillway elevation of 6743.2'.~~

CHAPTER 2. ~~DISTRICT FACILITIES~~

Section 3-2.101 ~~Purpose and Scope~~

~~This Chapter regulates the use of District facilities. The requirements of this Chapter are in addition to the requirements of any other agency with jurisdiction by law or by any other part of this Code.~~

Section 3-~~12~~.102 **General**

No person shall enter, use or occupy District facilities except in accordance with the rules and regulations set forth in this Chapter. Persons who use District facilities shall comply with the lawful orders of District Park Rangers.

Section 3-~~12~~.103 **Prohibited Activities on District facilities**

- (a) No person shall enter, use or occupy District facilities which are posted as closed.
- (b) No person shall build or maintain a fire at District facilities.
- ~~(c) No person shall engage in a commercial venture without a District permit.~~
- (d) No person shall camp overnight.
- (e) No person shall use camping equipment such as tents, sleeping bags, barbecues or other cooking gear on District fishing docks.
- (f) No person shall smoke within District buildings.
- (g) No person shall erect an enclosed tent.

Section 3-~~12~~.104 **Plants, Animals and Native Materials**

- (a) No person shall possess or control a dog unless the dog is controlled by a leash of not more than seven (7) feet in length. The person controlling the dog shall remove feces from District property. No dogs are permitted within an area designated as a bathing beach.
- (b) No person shall cut, pick, damage or destroy any plant, tree, shrub or wildflower growing.
- (c) No person shall damage or remove soil, rock or other natural materials.

Section 3-~~12~~.105 **Vehicles**

- (a) No person shall drive or park a vehicle upon, over, across or through a launching facility except:
 - (1) In compliance with the Vehicle Code;
 - (2) Upon designated roads and parking areas; and
 - (3) In accordance with traffic signs and directions of authorized District personnel.

(b) No person shall drive or park a vehicle below the high water line of the Lake except as pursuant to contract or at sites approved by the District.

(c) No person shall park a vehicle without a trailer in parking stalls marked as "Vehicles with Trailer Only."

~~(e)(d) No vehicles or trailers shall be left overnight at District facilities.~~

Section 3-12.106 Assemblies

No person shall conduct a public meeting or assembly upon District facilities without District authorization except to undertake permitted activities.

Section 3-12.107 Fees

The Board may establish fees for use of District facilities from time to time by resolution.

~~Section 3-2.108 Violations~~

~~The violation of any provision of this Chapter is an infraction. Violators of this Chapter may be evicted and barred from District facilities.~~

CHAPTER 23. SHOREZONE ALTERATIONS

Section 3-3.22.1401 Purpose and Scope

This Chapter regulates removal of materials from, or deposit of materials into the Lake. The permits required by this Chapter are in addition to permits required by any other agency with jurisdiction by law or by any other part of this Code.

Section 3-3.22.1402 Permit Required

No person shall dredge, ~~or fill~~, or alter the shorezone of the Lake without first obtaining a shorezone alteration permit from the District.

Section 3-3.22.1403 Permit Application

(a) Any person who desires to obtain a shorezone alteration permit shall make written application to the District on forms approved for such purpose by the General Manager.

(b) The General Manager shall review each application. If the General Manager denies the permit, no further action shall be taken unless the applicant appeals the decision to the Board. The General Manager may approve the permit or may recommend that a public hearing be conducted by the Board to consider the application. If the General Manager recommends Board action, the Board shall conduct a duly noticed public hearing to consider the application. The Board's decision shall be final.

Section 3-3.22.1404 Shorezone Alteration Standards

Shorezone alteration permits shall be conditioned upon measures as the Board deems necessary to mitigate the impact of the proposed dredge or fill project. Such mitigation measures may include: regulation of construction methods and materials, architectural standards, land use controls, public access and such other matters as determined by the Board. The Board may designate the mitigation measures required of all permittees from time to time by resolution, however, the requirements for each permittee shall be set forth in each shorezone alteration permit.

Section 3-3.22.1405 Operations

No person shall conduct operations upon an area described in a shorezone alteration permit except in compliance with the terms and conditions of the permit. Areas described in a shorezone alteration permit shall be maintained in accordance with the terms and conditions of the permit.

Section 3-3.22.1406 Suspension or Revocation of Shorezone Alteration Permit

(a) The General Manager shall suspend a permit when the terms and conditions are violated. The General Manager may revoke a permit when the permittee has failed to cure a violation after a suspension of thirty (30) days or more.

(b) The General Manager shall provide the permittee or his successor with ten (10) days prior written notice of the suspension or revocation. The notice shall specify the grounds for the suspension or revocation, the action necessary to cure the violation and length of suspension.

(c) All construction shall cease during such time as a permit is suspended. When a permit is revoked, the permittee shall return the affected area, as near as practicable, to the same conditions existing prior to the issuance of the permit.

(d) A person whose permit is suspended or revoked may appeal the decision of the General Manager.

~~Section 3-3.107~~ **Violations**

~~(a) Any person discovered to be violating the shorezone alteration regulations shall be cited for violation of this Code. An infraction penalty may be sought.~~

~~(b) Any person who encroaches in the shorezone may be required to remove the encroachment. Should the District remove the encroachment, the District may file a criminal complaint or commence a civil action to remove the encroachment if the trespasser fails to act.~~

~~(c) The District may issue a permit for the encroachment on proof of special circumstances. If a permit is issued, the permittee shall pay the application and permit fees stated in the District's fee resolution, plus an amount equal to the cost of removing the encroachment.~~

Section 3-3.22.14078 **Erosion-Deposition Control**

(a) No person shall conduct operations on real property above the high water line of the Lake in such a way as to cause the deposit of soil, rock or other debris into, on or under the Lake.

(b) The General Manager shall provide written notice to any person who has violated, or is about to violate, the provisions of this Section. The notice shall describe the facts of the violation or potential violation and shall request the person to cease and desist from or avoid performing such acts. A copy of the notice shall be forwarded to each Federal, state and county regulatory agency with jurisdiction by law.

(c) If the violator of this Section fails to remedy the violation within a reasonable period of time after having been directed to do so, or if a potential violator fails to take action to avoid a violation, the General Manager shall institute appropriate civil action or abate the violation.

Section 3-3.22.14089 **Violations**

(a) Every violation of this ~~provision~~-chapter shall also constitute a continuing public nuisance for which injunctive relief is authorized. ~~Any violation of this provision is a continuing nuisance.~~ Each day that the eroded material remains within the Lake constitutes a separate day's violation.

(b) Any person who encroaches in the shorezone may be required to remove the encroachment. Should the District remove the encroachment, the District may file a criminal complaint or commence a civil action to remove the encroachment if the trespasser fails to act.

(c) The District may issue a permit for the encroachment on proof of special circumstances. If a permit is issued, the permittee shall pay the application and permit fees stated in the District's fee resolution, plus an amount equal to the cost of removing the encroachment.

CHAPTER 34. DOCKS

Section 3-34.101 **Purpose and Scope**

This Chapter sets forth standards for the licensing, location, placement, construction, use and maintenance of docks on the Lake. The District grants dock privileges to certain properties on or near the Lake and has final authority regarding dock placement issues. The District does not guarantee lake levels will always facilitate dock placement, location or use.

Section 3-34.102 **Residential and Lakefront Business Docks - License Required**

No person shall construct, place or use a dock or mooring buoy on the Lake without first obtaining a dock license from the District. The license required by this Chapter are in addition to permits required by any other agency with jurisdiction by law or by any other part of this Code.

Section 3-34.103 **License Application**

(a) The owner of a parcel with dock privileges who desires to obtain a license shall make written application to the District on forms approved for such purposes by the General Manager.

(b) The General Manager shall review each application and if approved, a license will be issued. If the General Manager denies the license, no further action shall be taken unless the applicant appeals the decision to the Board.

Section 3-34.104 **Standards**

Dock licenses shall be conditioned upon measures as the Board deems necessary to mitigate the impact of the dock or buoy. Such mitigation measures shall include: regulation of construction and materials; architectural and engineering standards; land use controls, public access and such other matters as determined by the Board. The Board may designate the mitigation measures required of all licenses from time to time by resolution. However, the requirements and/or restrictions for each license shall be set forth in each dock license. All licenses shall be maintained on file with the District.

Section 3-34.105 **Operations**

No person shall use a dock or mooring buoy except in compliance with the terms and conditions of a dock license. All docks and mooring buoys shall be maintained in accordance with the terms and conditions of the license and current private dock standards and specifications.

Section 3-34.106 **Suspension or Revocation of Dock License**

(a) The General Manager may suspend a dock license when terms or conditions of the license or other District regulations are violated.

(b) Ten (10) days prior written notice of the suspension shall be provided to the licensee. The notice shall specify the grounds for suspension, action necessary to cure the violation(s) and length of suspension. The General Manager shall revoke a license when the licensee has failed to cure a violation after a suspension of thirty (30) days or more.

(c) All use of the dock shall cease during such time as a license is suspended. When a license is revoked, the licensee shall return the affected areas, as near as practicable, to the same conditions existing prior to the issuance of the license.

(d) A person whose license is suspended or revoked may appeal the decision of the General Manager to the Board.

Section 3-~~34~~.107 Commercial Boat landing Dock Standards

No commercial boat landing shall construct, place or use a dock, mooring buoy or floating building on the Lake except in compliance with the commercial boat landing permit and current commercial dock construction standards and specifications.

~~Section 3-4.108 Violations~~

~~The violation of any provision of this Chapter is an infraction.~~

CHAPTER 45. RV PARK**Section 3-45.101 Purpose and Scope**

This Chapter regulates use of the District's Recreational Vehicle Park.

Section 3-45.102 Permit

(a) No person shall camp in the Park, except with a permit.

(b) Any person who desires to obtain a permit shall make written application to the District on forms approved for such purpose by the General Manager.

(c) The General Manager shall review each application and may issue the permit if the application is complete and the recreational vehicle satisfies District requirements. If the General Manager recommends denial, no further action shall be taken unless the applicant appeals the decision to the Board.

(d) The General Manager may suspend or revoke a permit whenever the permittee violates the terms and conditions of the permit, this Code or other requirements of law.

Section 3-45.103 Regulations

(a) Permits may be obtained on date of arrival with check-in guaranteed for 3:00 P.M. Additional days must be paid for by 10:00 A.M. on date of originally scheduled departure.

(b) No site may be vacated for more than 24 hours without notifying the RV Park Host or District.

(c) Guests must declare their intentions upon entering the Park relating to length of stay.

(d) Permits shall expire at 1:00 P.M. on the expiration date as indicated on the permit.

(e) Quiet hours shall be from 11:00 P.M. to 8:00 A.M., 7 days a week. No generator shall be used during these times.

(f) All pets must be restrained within site boundaries or kept on a leash no more than seven (7) feet long when off site. Animal feces must be removed by the owner immediately.

(g) Washing of vehicles or any other unnecessary use of water is prohibited.

(h) All native material and landscaping, live or dead, must be left undisturbed.

(i) All audio equipment such as radios, televisions, etc., are to be played in a manner so as to not disturb other guests.

(j) No motorcycles may be driven in the park except for ingress and egress.

(k) No wastewater, including gray water shall be dumped on the ground.

(l) Horses shall not be allowed.

(m) Campfires are prohibited.

(n) Smoking is prohibited in the restrooms.

(o) No permanent fixtures or structures are allowed, i.e., wood or metal canopies or sheds.

Section 3-45.104 Limitations

(a) No more than eight (8) persons, two (2) pets, one (1) two-person tent, and two (2) vehicles, one of which shall be a recreational vehicle, are allowed per site.

(b) The Park is open from May 1 through October 31 of each year. Between November 1 and April 30 of each year, the Park is closed except for winter storage.

(c) No person shall drive or park a vehicle upon, over, across or through the Park except:

- (1) In compliance with the Vehicle Code;
- (2) Upon designated roads and parking areas; and
- (3) In accordance with traffic signs and directions of authorized District personnel.

Section 3-5.105 Violations

~~The violation of any provision of this Chapter is an infraction.~~

PASSED, APPROVED AND ADOPTED this

Paula Fashempour, President

ATTEST:

Vicki Sheppard, Secretary

(SEAL)

**BIG BEAR MUNICIPAL WATER DISTRICT
REPORT TO BOARD OF DIRECTORS**

MEETING DATE: JANUARY 7, 2010

AGENDA ITEM: 6B

SUBJECT:

CONSIDER APPROVAL OF A WORK PLAN FOR A PROPOSED SAMPLING AND ANALYSIS PLAN FOR EVALUATING THE CHEMICAL AND PHYSICAL PROPERTIES OF LAKE SEDIMENT AT THE BIG BEAR MARINA

RECOMMENDATION:

The General Manager and Lake Manager recommend approval of this work plan. The Watershed/Lake Improvement Committee (Directors Eminger and Murphy) will provide comment on the proposed work plan during the Board meeting.

DISCUSSION/FINDINGS:

MWH has reviewed two sets of data collected by the Army Corps of Engineers on sediment engineering properties and sediment chemistry. They found sediment samples that were collected and analyzed within and adjacent to the proposed Big Bear Marina dredge area. During conversations with the District's dredge design engineer, Moffett & Nichol, nine additional sampling locations were identified in order to provide sufficient information for moving forward on this work. In addition to sampling sediments adjacent to the marina fueling station specifically for hydrocarbon species, other locations were selected to provide additional chemical and engineering characterization of the sediment proposed to be dredged. Sediment samples will be analyzed for engineering properties sediments collected during the sampling program will be analyzed for petroleum hydrocarbons, nutrients, PCB's, pesticides and metals in accordance with the plan detailed on Table 7 of the attached proposal.

After completion of the sediment sampling and analysis a report of the findings of the project will be prepared and submitted to the District. The report will present a summary of the sampling operations, a map showing the locations of all sediment samples collected, a summary and discussion of the analytical results, and copies of all laboratory reports. The report findings will be incorporated into the project CEQA document and will be referenced in pertinent permitting applications associated with the project.

OTHER AGENCY INVOLVEMENT: None

FINANCING: The proposed cost for this effort is \$36,018 and would be funded with unallocated Lake Improvement Fund dollars.

Submitted by: Scott Heule, General Manager



MWH

BUILDING A BETTER WORLD

March 11, 2010

Mr. Scott Heule
General Manager
Big Bear Municipal Water District
40524 Lakeview Drive
Big Bear, California 92315

**Subject: Work Plan for Pre-Dredge Sediment Characterization at Big Bear Marina
500 Paine Road
Big Bear Lake, CA 92315**

Dear Mr. Heule,

This letter work plan presents a proposed sampling and analysis plan for evaluating the chemical and physical properties of lake sediment at the Big Bear Marina (Marina). We understand the Big Bear Municipal Water District (BBMWD) is preparing to have the Marina area dredged in accordance with the dredge plan prepared by Moffatt & Nichol (drawings dated October 20, 2009). The planned dredge footprint is shown as an overlay on the attached **Figure 1**. This Work Plan provides a brief project background and summary of objectives, followed by a discussion of the relevant historical documents and sediment chemistry data. The Work Plan also presents the technical approach, field sampling and analytical methods and quality control procedures and provides a description of the summary report that will be produced upon completion of the field and laboratory analytical work.

BACKGROUND AND PROJECT OBJECTIVES

BBMWD is interested in reusing the dredge sediment from the Marina deepening project to extend the peninsula on the western side of the Marina. There were historic fuel underground storage tanks (USTs) located on the eastern side of the Marina (see Figure 1) which were removed in May, 1993. There are known soil and groundwater impacts of fuel hydrocarbons in the vicinity of the historic USTs, on the land adjacent to a portion of the proposed Marina dredge area. Furthermore, there have been Lake-wide sediment chemistry studies completed by the US Army Corps of Engineers (USACE) and similar sediment characterization studies completed for prior dredge projects within the Lake (further described below).

The objectives of the sampling and analysis described in this Work Plan are to facilitate the evaluation of the suitability of the dredge sediment for extension of the peninsula, alternative sediment management approaches, and potential impacts to lake water quality resulting from the dredging or sediment management operations.

DOCUMENT AND DATA REVIEW

Several documents were provided by BBMWD to MWH for review and were considered in the preparation of this work plan, including:

- *Report of Findings, Semi Annual Groundwater Monitoring*, Big Bear Marina, Big Bear Lake, California, by Kendall/Adams Group, Inc., April 2009.
- *Report, Phase I Geotechnical Investigation*, Big Bear Lake Environmental Restoration Project, Big Bear Lake, California, by URS for the U.S. Army Corps of Engineers, Los Angeles District, June 28, 2006.
- *Data Report, Phase II Investigation*, Big Bear Lake Environmental Restoration Project, Big Bear Lake, California, by URS for the U.S. Army Corps of Engineers, Los Angeles District, March 22, 2007.
- *Draft Report, Evaluation of Restoration Measures*, Big Bear Lake Environmental Restoration Project, Big Bear Lake, California, by URS for the U.S. Army Corps of Engineers, Los Angeles District, July 25, 2007.

MWH personnel also reviewed the 2005 Nutrient/Sediment Remediation Monitoring Plan (Agreement No. 04-204-558-0) associated with the completed East End Dredge Project, and various other documents related to the Total Maximum Daily Load (TMDL) development for Big Bear Lake.

The first of the documents listed above presents semi-annual monitoring results for groundwater impacted by a historical release from three former underground gasoline storage tanks at the Big Bear Marina. The former tank and groundwater monitoring well locations are shown on Figure 1. In wells MW-6, MW-5B and MW-10 along the lake shore, elevated concentrations of gasoline-range total petroleum hydrocarbons (TPHg) and benzene, ethylbenzene, toluene and xylenes (BETX) have been consistently detected. Methyl tertiary-butyl ether (MTBE) has not been detected in any of the monitoring wells.

The other three listed documents pertain to two episodes of lake sediment sampling and analysis performed for the USACE, Los Angeles District. The purpose of these studies was to characterize certain chemical and physical properties of the lake-bottom sediments to facilitate the development and evaluation of lake restoration alternatives. The locations of sediment samples collected during these studies in the vicinity of the Big Bear Marina are shown on Figure 1, and the sampling data, Phase I analytical results, and select Phase II analytical results for these samples are summarized in Tables 1 through 6. Tables 3 through 6 were prepared directly from the laboratory reports as a quality assurance measure (this effort resulted in the identification of several inconsistencies in the data summary tables presented in the Phase I and Phase II reports, and those summary tables should be used with caution). Waste extraction test (WET), deionized water waste extraction test (DI-WET), and elutriate test method analytical results from the Phase II work were available only in summary tables in the Phase II report and the draft restoration measures report, and could not be checked against laboratory reports. Therefore, those data were not tabulated herein. Also, B-526 was the only Phase II sediment

sample location in the vicinity of the Big Bear Marina. These last three analyses were performed partly as a means of assessing the likelihood of analytes leaching from lake sediments during dredging or sediment management activities.

The screening values presented in Tables 3 through 6 are those referenced in the USACE draft restoration measures report (though the actual screening values are not presented in that draft report), and are presented here for consistency with the data evaluation presented in that report and to provide further context to the numerical results. Comparison of results to the TEL, TEC, PEL and PEC screening values for freshwater sediment (obtained from the Screening Quick Reference Tables [SQuiRTs], National Oceanic and Atmospheric Administration, OR&R Report 08-1) is consistent with the approach presented in the Quality Assurance Project Plan, Integrated Total Maximum Daily Load Implementation Program for Big Bear Lake (BBMWD, April 24, 2006), and is relevant in consideration of the reuse of sediments within the lake. Comparison to soil screening values may be relevant in consideration of reuse of sediments to extend the western peninsula at the Marina. However, alternative soil screening criteria from U.S. EPA Region IX or the State of California may be more relevant and directly applicable.

Analyte concentrations above the PEL or PEC, or above either of the two soil screening criteria identified in Tables 3 through 6 are highlighted in those tables. These highlights are not completely consistent with the summary tables presented in the draft restoration measures report (Tables 4-2 and 4-3 therein), but because that report does not present the actual screening values used in the evaluation, the discrepancies could not be reconciled.

The diesel and extended-range total petroleum hydrocarbon (TPH) concentrations highlighted in Table 3 were identified as exceeding the soil screening value in Table 4-3 of the draft restoration measures report. However, it appears that this identification may have been based on comparison to the soil screening value for gasoline because screening values for diesel- and extended-range TPH do not exist in the cited reference. Alternative soil screening criteria for diesel- and extended-range TPH could be evaluated.

The elevated TPH concentrations detected at B-206 during Phase I resulted in the subsequent analysis for polycyclic aromatic hydrocarbons (PAHs) at adjacent Phase II sample location B-526 (Table 4). Several PAHs exceeded soil screening values, and phenanthrene exceeded the PEL.

Nutrient (nitrogen and phosphorus) and total organic carbon concentrations were identified as being among the highest detected at sample locations B-70 and B-206 (Table 3) in the draft restoration measures report, though no screening criterion was identified. Phase II elutriate tests for nutrients at sample location B-526 resulted in leachate phosphorus concentrations below the Big Bear Lake TMDL target of 35 ug/L (micrograms per liter). However, DI-WET results for nutrients at B-526 indicated leachate phosphorus and nitrogen concentrations at more than an order of magnitude higher than the elutriate test results.

California Title 22 Metals results are summarized in Table 5. Antimony and lead concentrations exceeded soil screening values at B-70. At B-206 arsenic exceeded the PEL, and lead exceeded

soil screening values. The lead concentration in the deeper of the two B-206 samples also exceeded ten times the Soluble Threshold Limit Concentration (STLC), indicating that if this material were to become a waste, a WET for lead would have to be performed to determine if the material would be a hazardous waste. Lead was not detected in the WET performed on the sample collected from adjacent Phase II location B-526, indicating that if this material became a waste it would not be classified as a hazardous waste. Vanadium concentrations exceeded the soil screening values in every sample analyzed throughout the lake. This result is expected because the cited Ecological Soil Screening Level (Eco-SSL) for vanadium is lower than the reported range of background soil concentrations in eastern and western U.S. soils (Ecological Soil Screening Levels for Vanadium, Interim Final, OSWER Directive 9285.7-75, U.S. EPA, April 2005). Similarly, the cited Eco-SSL for zinc is less than the 25th percentile of reported background soil concentrations of zinc in western U.S. soils (Ecological Soil Screening Levels for Zinc, Interim Final, OSWER Directive 9285.7-73, U.S. EPA, June 2007). With regard to the total concentrations of arsenic, lead and zinc, it is worth noting that these three metals were also detected in the laboratory method blank, suggesting that the actual concentrations in the samples may be lower than indicated.

Polychlorinated biphenyls (PCBs) were not detected in any of the samples analyzed in the vicinity of the Big Bear Marina, and were detected in only one sample lake wide (Table 6).

Chlorinated pesticide concentrations, specifically chlordane, DDT, and the DDT metabolites DDD and DDE, are summarized in Table 6. Chlordane concentrations exceeded the PEL and/or PEC at B-70 and B-206. DDT exceeded the PEL at B-206, and total DDT/DDD/DDE concentrations exceeded soil screening values at B-70 and B-206, though it is worth noting that DDT was also detected in the laboratory method blank associated with at least some of these samples (the lack of a "B" qualifier on the DDT result for the deeper B-206 sample may be an error in the laboratory report) suggesting that the actual concentrations in those samples may be lower than indicated.

Elutriate tests performed to evaluate the potential for analytes to leach from sediment during dredging or sediment management indicated that no significant leaching of metals or organics from the dredged sediment would occur. However, these tests also showed that it may be possible for phosphorus to leach from sediments during these activities at concentrations above the TMDL target, though this was not the case for the sample location adjacent to the Big Bear Marina (B-526) that underwent elutriate testing.

PROPOSED PRE-DREDGE SAMPLING AND ANALYSES

The proposed sampling locations and schedule of analyses are shown on Figure 1 and in Table 7, respectively. In addition to the analyses indicated in Table 7, one trip blank will be analyzed for TPH-GRO and BETX. Dedicated acrylic sample tubes will be used for sample collection, and so equipment rinsate blanks will not be collected and analyzed. Locations S1 and S6 are focused primarily on PAH analysis based on previous TPH detections at coincident sample locations B-70 and B-216, respectively (Table 3). Analysis for BETX is also indicated for location S1

because of its proximity to the groundwater monitoring wells located on land to the east of this proposed sediment dredge area, with elevated concentrations of these compounds.

Locations S2 and S3 are aimed at evaluating whether the elevated concentrations of TPHg or BETX in groundwater at monitoring wells MW-6, MW-5B and MW-10, which are also located on land to the east of this proposed sediment dredge area, may have impacted adjacent targeted dredge sediments.

Locations S4 and S5 are targeted at providing a more representative assessment of the overall chemical characteristics of the sediments in the eastern dredge areas (in conjunction with the existing data at B-70 and B-216). These locations will also further assess potential impacts to sediments, which may have been associated with elevated TPHg or BETX concentrations in groundwater at wells MW-6, MW-5B and MW-10, located on land to the east and southeast of the proposed sediment dredge area. The fluctuating historic lake elevations further warrant this sampling location for these analytes.

Locations S7, S8 and S9 will provide data helping to define the physical and chemical characteristics of sediments in the western dredge areas. Though none of the existing data were collected from within the western dredge areas, some of the nearby sample locations (B-208 and B-210 in particular) are near enough to also help represent the character of this targeted dredge sediment. At the request of Moffatt & Nichol, sieve analysis will be performed to characterize grain size distribution at the three sampling locations in the western dredge area. These sampling locations represent areas that contain the majority of the sediment volume to be dredged. Existing sieve data from B-70, B-215 and B-216 sufficiently characterize the grain size distribution in the eastern dredge area. Results from the sieve analyses at S7, S8 and S9, and the existing sieve data in the Marina vicinity will be used by Moffatt & Nichol to help evaluate the suitability of the dredge sediment for use in extending the western peninsula.

Further details of the proposed sampling and analysis approach are provided below.

TECHNICAL APPROACH

Equipment Setup

A Geoprobe Limited-Access Rig (LAR) or similar direct-push device will be used to advance hollow-core sampling rods to the desired sampling depth. These rigs operate on hydraulic power provided by an electric or gasoline powered compressor. Depending on the sample location, the rig may be operated from either a pontoon vessel supplied by BBMWD or from the main dock at the Marina. The proposed sampling locations are shown on Figure 1.

When operated from the pontoon vessel, the LAR will be secured to deck cleats using heavy-duty ratchet straps. Sampling rods will be advanced through a small existing opening near the bow to minimize hazards associated with equipment overhang. A joisted platform will be used to cover the bow cutout, providing additional footing for personnel operating the LAR.

When operated from the main dock, the LAR will not require supplemental stabilization. To eliminate hazards associated with equipment overhang, one or more planks will be removed from the dock to provide safe access to the sampling locations. Portions of removed plank areas not required to be open to accommodate the sampling equipment will be temporarily covered with plywood. Removed planks will be replaced upon completion of the sampling at each location.

Sample Collection

Prior to each sampling run, sampling rods will be decontaminated using a phosphate-free detergent, and new acetate liners will be placed inside the sampling rods. Sampling rods will be advanced just beyond the maximum dredge depth (19-20 feet below spillway elevation) and retrieved to the surface. The sediment core will be removed from the sampling rods and cut into approximately 1-foot long segments, which will be sealed, capped and labeled.

At locations where sieve analysis will be performed, one of the sample segments will be selected and set aside for that purpose (Table 7). The remaining sample segments will be submitted for chemical analyses as summarized in Table 7. The sample segments will be composited at the laboratory prior to analysis. Vertical compositing of sample segments for analysis is an appropriate and more cost-effective approach than discrete sample analysis in this case because the primary objective is to evaluate the overall chemical characteristics of the dredge sediments, and there would be little value in delineating the vertical distribution of target analytes in those sediments. At locations where more than 5 feet of targeted dredge sediment are retrieved, a maximum of four sample segments, consisting of the top and bottom segments and one or two segments evenly distributed between them, will be selected for compositing and analysis; this is more likely to occur at the sample locations closest to the shoreline where the thickness of targeted dredge sediments is generally greater. The sediment samples will be stored in an ice-chilled cooler for transport to a California-certified analytical laboratory under chain-of-custody protocol. Sieve analyses may be performed at a separate geotechnical laboratory; the same sample handling and transport protocols would be used. Several of the proposed analyses are contingent upon the results of other analyses as shown in Table 7. Samples will be managed and analytical results monitored such that the contingent analyses can be completed, if appropriate, without exceeding the maximum sample holding times for those analyses.

Reporting

After completion of the work described above, a report detailing the findings of the project will be prepared and submitted to the BBMWD. This report will present a summary of the sampling operations, a map showing the locations of all sediment samples collected, a summary and discussion of the analytical results, and copies of the laboratory reports.

Mr. Scott Heule
Big Bear Municipal Water District

March 11, 2010
Page 7

Thank you for the opportunity to present this evaluation of existing data and proposed work plan for pre-dredge sediment characterization sampling and analysis. If you have any questions regarding the data summary or the proposed scope of work, please call Steve Reiners at 626-568-6334.

Sincerely,
MWH Americas, Inc



Simon Bluestone, PG no. 6381
Vice President



Steven H. Reiners
Principal Engineer

Attachments: Figure 1
Tables 1 through 7



Legend

- Existing Groundwater Monitoring Well
- Phase I / Phase II Sediment Sampling Location
- Proposed Sediment Sampling Location



BIG BEAR MARINA
BIG BEAR LAKE, CALIFORNIA

SAMPLE LOCATION SUMMARY
FIGURE 1

Detailed Cost Breakdown
 Big Bear Municipal Water District
 Big Bear Marina Pre-Dredge Sediment Characterization Project
 Estimate to Complete Pre-dredge Sediment Sampling and Analysis per 3/11/2010 MWH Letter Work Plan
 March 11, 2010

2009 Burdened Rate		Task 1 Pre-Field Activities		Task 2 Field Sample Collection and Analysis		Task 3 Contingent Sample Analysis		Task 4 Data Summary, Evaluation and Reporting		Task 5 PM and Meetings		TOTAL	
Staff Category	Staff Name	Units/Hr	Cost	Units/Hr	Cost	Units/Hr	Cost	Units/Hr	Cost	Units/Hr	Cost	Units/Hr	Cost
Principal Hydrogeologist	Simon Bluestone, P.G.	2	\$513	1	\$256			2	\$513	2	\$513	7	\$1,795
Principal Health and Safety Officer	Stuart Welch	1	\$194									1	\$194
Principal Scientist	Bruce Narloch, Ph.D	1	\$171					4	\$685			5	\$857
Principal Engineer	Roy Hummel	6	\$907	6	\$907			10	\$1,512			0	\$0
Project Manager	Steve Reiners	14	\$1,309	32	\$2,991			30	\$2,804			26	\$3,931
Technical Advisor	Jim Rouse											0	\$0
Project Engineer	Drew Lassen											0	\$0
Senior Geologist	Shelby Valenzuela, P.G.											0	\$0
Staff Geologist	Allison Ruotolo											0	\$0
Senior Drafter	Mike Luebke	6	\$549	2	\$183			1	\$127			1	\$127
Senior Administrator	Colleen MacDonnell	4	\$269	2	\$136			4	\$366	2	\$183	14	\$1,280
Administrator	Thomas Seagren	34	\$3,911	43	\$4,472	0	\$0	63	\$6,142	8	\$1,300	8	\$938
LABOR SUBTOTALS													
LABOR COSTS													
DIRECT COSTS													
Reimbursable Item/Equipment													
	FedEx/Mail/Equipment Courier (sample shipping)		\$0	1	\$600								\$600
	Misc. Field Supplies/Materials (\$/month)		\$200	1	\$200								\$200
	Truck - \$/mi		\$0.56	220	\$128								\$128
	TRAVEL (meals/hotel/car. - \$/day)		\$300	3	\$900								\$900
	Subtotal without markup		\$0		\$1,828								\$1,828
	Subtotal with 10% markup		\$0		\$1,828								\$1,828
	APC		\$340		\$430								\$1,380
	Reimbursable Expense Subtotal with 10% markup		\$340		\$2,258								\$3,208
SUBCONTRACTOR EXPENSES													
	Subcontractor		\$0	1	\$12,500								\$12,500
	Drilling subcontractor		\$0	1	\$2,819	1	\$556						\$3,374
	Analytical laboratory		\$0		\$15,319								\$15,319
	Subtotal without markup		\$0		\$16,391								\$16,391
	Subtotal with 10% markup		\$0		\$16,391								\$16,391
	Subcontractor Expense Subtotal		\$0		\$16,391								\$16,391
ESTIMATED TOTALS													
			\$4,251		\$23,121		\$584		\$6,672		\$1,390		\$38,018

Assumptions:
 Sampling can be completed in up to three days of field work
 BSMWD will provide their barge for use at overwater sampling locations
 BSMWD will retain liability for the barge, and name MWH and its subcontractors as additional insureds (AI) on its Protection and Indemnity (P&I) policy.
 Dock plank removal and replacement is acceptable for dock-accessible sampling locations
 Formal data validation will not be performed
 Weather and lake conditions will be suitable for three consecutive days of sampling work
 Sample analyses will be performed on standard 7-day turn-around time

TABLE 1
Sample Location Details
Partial Summary of Existing Sediment Sampling and Analysis Results
Vicinity of Big Bear Marina
Big Bear Lake, CA

Boring ID	Latitude	Longitude	Lake Surface Elevation (ft msl)	Mudline Elevation (ft msl)	Lake Depth (ft)	Boring Depth (ft)	Date Sampled	Logged By	Sampling Method	Comments
B-70	34° 14' 37.951"	116° 55' 04.005"	6740.17	6727.09	13.08	1.33	3-Aug-05	J. Pyska	Vibracore	
B-71	34° 14' 40.195"	116° 55' 00.748"	6740.22	6733.55	6.67	2.33	28-Jul-05	J. Pyska	Vibracore	
B-205	34° 14' 35.951"	116° 55' 09.221"	6740.19	6738.02	2.17	1.67	2-Aug-05	J. Pyska	Vibracore	
B-206	34° 14' 36.753"	116° 55' 09.288"	6740.19	6733.52	6.67	3.08	2-Aug-05	J. Pyska	Vibracore	
B-207	34° 14' 37.823"	116° 55' 09.010"	6740.20	6731.60	8.60	2.00	25-Jul-05	J. Pyska	Vibracore	First attempt cored 1 foot with no recovery.
B-208	34° 14' 38.699"	116° 55' 09.050"	6740.20	6730.50	9.70	4.00	25-Jul-05	J. Pyska	Vibracore	
B-209	34° 14' 39.877"	116° 55' 09.700"	6740.19	6730.19	10.00	1.25	2-Aug-05	J. Pyska	Vibracore	Two attempts, no recovery.
B-210	34° 14' 40.792"	116° 55' 09.036"	6740.19	6727.61	12.58	1.33	2-Aug-05	J. Pyska	Vibracore	
B-211	34° 14' 42.975"	116° 55' 09.016"	6740.23	6725.65	14.58	0.00	27-Jul-05	J. Pyska	Vibracore	Hit refusal or rocks, no penetration.
B-212	34° 14' 45.579"	116° 55' 09.131"	6740.23	6726.98	13.25	11.00	27-Jul-05	J. Pyska	Vibracore	
B-213	34° 14' 41.841"	116° 54' 59.991"	6740.22	6728.72	11.50	4.50	28-Jul-05	J. Pyska	Vibracore	
B-214	34° 14' 43.921"	116° 54' 59.971"	6740.22	6725.72	14.50	9.00	28-Jul-05	J. Pyska	Vibracore	
B-215	34° 14' 41.042"	116° 55' 03.267"	6740.19	6730.69	9.50	2.83	2-Aug-05	J. Pyska	Vibracore	
B-216	34° 14' 43.811"	116° 55' 03.342"	6740.19	6727.44	12.75	10.90	2-Aug-05	J. Pyska	Vibracore	
B-526	34° 14' 608'	116° 55' 157'	6741.22	6734.47	6.75	4.50	20-Sep-06	J. Pyska	Shelby	Performed adjacent to Phase I Boring B-206. Poor Recovery.

ft msl = feet above mean sea level

TABLE 2
Physical Properties
Partial Summary of Existing Sediment Sampling and Analysis Results
Vicinity of Big Bear Marina
Big Bear Lake, CA

Boring ID	Sample Number	Sample Depth (ft)	Percent Passing by Weight															Atterberg Limits		Organic Matter Content (%)	Testing Laboratory
			Gravel (inches)					Sand (sieve no.)					Fines					Liquid Limit (LL)	Plastic Index (PI)		
			3	1-1/2	3/4	3/8	4	8	10	16	20	30	40	50	60	100	200				
B-70	1	0-1.33	100	100	99	99	90	78	--	64	--	51	40	--	31	25	--	--	USACE		
B-71	1	0.17-1.5	100	100	100	100	99	97	--	94	--	91	87	--	83	78	--	--	USACE		
B-206	1	0-1.67	100	100	100	100	98	95	--	92	--	90	84	--	65	44	--	--	USACE		
B-207	1	0-1.5	100	100	100	100	97	90	80	72	--	64	57	--	48	38	8	--	USACE		
B-208B	1	0.25-1.08	100	100	100	98	88	68	--	49	--	31	15	--	5	2	--	--	USACE		
	2	1.08-2.08	100	100	100	98	96	--	79	--	69	--	62	56	48	45	8	--	URS		
	3	2.5-3	100	100	98	96	86	69	--	53	--	40	29	--	19	14	--	--	USACE		
	4	3.0-4.0	100	100	97	95	88	77	--	66	--	56	45	--	34	26	--	--	USACE		
B-212	1	0-3.75	100	100	100	99	93	76	--	61	--	49	39	--	31	22	--	--	USACE		
	2	3.75-5.5	100	100	100	100	94	82	--	70	--	59	50	--	41	33	--	--	USACE		
	4	8.33-11	100	100	100	82	73	59	--	51	--	39	32	--	24	18	--	--	USACE		
B-213	1	0-2	100	100	100	100	100	89	--	78	--	61	50	--	40	30	--	--	USACE		
	2	2-4.5	--	--	--	--	--	--	--	--	--	--	33	--	9	--	--	--	USACE		
B-214	1	0-0.83	100	100	100	100	59	50	--	42	--	35	28	--	21	12	--	--	USACE		
	2	0.83-4	100	100	100	100	97	86	--	73	--	61	51	--	43	33	--	--	USACE		
	3	4.0-8.0	100	100	100	100	99	92	--	82	--	64	51	--	40	30	--	--	USACE		
B-215	1	0-1.75	100	100	100	99	96	82	--	67	--	53	42	--	31	24	NP	--	USACE		
	2	1.75-2.83	100	100	88	86	79	60	--	43	--	30	21	--	14	10	--	--	USACE		
B-216	2	2.0-4.0	100	100	100	99	95	76	--	60	--	48	38	--	28	21	--	--	USACE		

-- = not analyzed

TABLE 3
TPH and Nutrients
Partial Summary of Existing Sediment Sampling and Analysis Results
Vicinity of Big Bear Marina
Big Bear Lake, CA

Boring ID	Depth	Total Petroleum Hydrocarbons (mg/kg dw)			Nutrients (mg/kg dw)		Phosphorus	Total Organic Carbon (mg/kg)
		Gasoline Range	Diesel Range	Extended Range	Nitrogen (Kjeldahl)	Nitrogen (Nitrate + Nitrite)		
B-70	0-40 cm	ND<1.1 H	34 J	130	1300 H	0.83 JBH	990 H	17300
B-71	0-50 cm	--	--	--	410 H	2.2 BH	550 H	--
B-206	0-50 cm	ND<1.1 H	93	490	1500 H	1.2 H	330 H	29600
	50-94 cm	1.7	110	440	670 H	ND<0.078 H	330	13500
B-208B	0-50 cm	--	--	--	440 H	0.42 JH	460 H	--
	50-122 cm	--	--	--	420 H	0.27 JH	400 H	--
B-210B	0-40 cm	ND<0.77	ND<7.7	ND<7.9	270 H	0.098 JH	470 H	3500
B-212	0-50 cm	--	--	--	450 H	ND<0.072 H	530 H	--
B-213	0-50 cm	ND<0.86	ND<7.6	ND<7.9	760 H	ND<0.074 H	400 H	7600
	50-137 cm	0.86 JHB	ND<8.0	ND<8.3	160 H	ND<0.067 H	440 H	3900
B-216	0-50 cm	ND<0.90	54	200	430 H	ND<0.076 H	560 H	9400
	50-275 cm	ND<0.80	ND<8.1	ND<8.4	110 H	ND<0.066 H	350 H	2400
B-526	0-55 cm	--	--	--	--	0.543 ⁽¹⁾	405	--
	SSV (mg/kg)	20	ne	ne	ne	ne	ne	ne

ND = not detected; value shown indicates the method detection limit (MDL)
 J = result is less than the reporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value
 B = compound was found in the blank and sample
 H = sample was prepped or analyzed beyond the specified holding time
⁽¹⁾ = nitrogen as nitrate only
 -- = not analyzed
 ne = not established
 mg/kg dw = milligram per kilogram (parts per million), dry weight basis
 mg/kg = milligram per kilogram (parts per million), wet weight basis
 mg/L = milligram per liter (parts per million, mass per unit liquid volume basis)
 SSV = U.S. EPA Region IV Soil Screening Value
 [] = identified in draft restoration measures report as exceeding soil screening value

TABLE 5
Title 22 Metals
Partial Summary of Existing Sediment Sampling and Analysis Results
Vicinity of Big Bear Marina
Big Bear Lake, CA

Boring ID	Depth	Title 22 Metals (mg/kg dw)																	
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium VI	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
B-70	0-40 cm	0.36 B	6.8	130	0.68	0.71	16	0.47 B	8.4	21	28 B	ND<0.010	0.5 B	10 B	0.241	0.086 J	0.32	44	110 B
B-206	0-50 cm	0.14 B	13	140	0.89	0.094 J	10	0.77 B	8.9	15 B	27 B	ND<0.014	0.25 JB	8 B	ND<0.14	0.043 J	0.34	45	89 B
	50-94 cm	0.19 JB	21	120	0.7	0.22 J	14	0.25 JB	8.4	18 B	74 B	ND<0.012 H	0.39 B	7.7 B	0.17 J	0.044 J	0.35	52	84 B
B-210B	0-40 cm	0.11 JB	7.7	68	0.36	0.012 J	19	0.086 J	6	8.3 B	3.9 B	ND<0.0091 H	1.7 B	13 B	0.14 J	0.014 J	0.26	29	39 B
	0-50 cm	0.053 JB	6.3	120	0.48	0.09 J	7.4	0.09 J	7.3	9.9 B	4.5 B	ND<0.010 H	0.3 B	6.1 B	0.19 J	0.019 J	0.29	35	45 B
B-216	50-137 cm	0.057 JB	8.2	150	0.58	0.003 J	9.8	0.15 J	9.5	11.8	4.9 B	ND<0.0087 H	0.27 B	7.7 B	0.22 J	0.029 J	0.4	40	58 B
	0-50 cm	0.097 JB	15 B	120	0.62	0.082 J	10.8	0.2 J	9	14	3.9 B	ND>0.011 H	0.22 JB	6.5 B	0.13 J	0.39 B	0.99	51	61 B
	50-275 cm	0.24 B	17 B	150	0.63	0.0097 J	10.8	0.085 J	10	12	3.9 B	ND<0.011 H	0.35 B	6.9 B	0.21	0.12 JB	0.37	56	59 B
	TEL (mg/kg dw)	5.5	11	1000	1.5	0.596	37.3	10	35.7	35	0.174	1.0	18	18	1.0	0.12	1.0	100	123
	TEC (mg/kg dw)	9.79	17	1000	1.5	0.99	43.4	10	37.6	35.8	0.18	1.0	22.7	22.7	1.0	0.12	1.0	100	121
	PEL (mg/kg dw)	17	33	1000	3.5	3.53	60	10	197	91.3	0.486	1.0	36	36	1.0	0.12	1.0	100	315
	PEC (mg/kg dw)	3.3	3.3	1000	0.37	4.98	11.1	10	14.9	128	1.06	1.0	48.6	48.6	1.0	0.12	1.0	100	459
	Eco-SSL (mg/kg dw)	0.27	1.8	330	21	0.56	26	130	13	28	11	1.0	2	38	0.52	4.2	1	7.8	46
	SSV (mg/kg)	3.5	10	165	1.1	1.6	0.4	6.4	20	40	50	0.1	2	30	0.81	2	1	2	50
	10x STLC (mg/L)	150	50	1000	7.5	10	50	50	800	250	50	2	3500	208	10	50	70	240	2500
	TTLc (mg/kg)	500	500	10000	75	100	500	2500	8000	2500	1000	20	3500	51.6	100	500	700	2400	5000

ND = not detected; value shown indicates the method detection limit (MDL)
 J = result is less than the reporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value
 B = compound was found in the blank and sample
 H = sample was prepped or analyzed beyond the specified holding time
 - = not established

mg/kg dw = milligram per kilogram (parts per million), dry weight basis
 mg/kg = milligram per kilogram (parts per million), wet weight basis
 mg/L = milligram per liter (parts per million, mass per unit liquid volume basis)
 TEL = Threshold Effect Level in Freshwater Sediment (NOAA Screening Quick Reference Tables [SQUIRTS])
 TEC = Threshold Effect Concentration in Freshwater Sediment (NOAA SQUIRTS)
 PEL = Probable Effect Level in Freshwater Sediment (NOAA SQUIRTS)
 PEC = Probable Effect Concentration in Freshwater Sediment (NOAA SQUIRTS)
 Eco-SSL = U.S. EPA Ecological Soil Screening Levels, Interim Final
 SSV = U.S. EPA Region IV Soil Screening Value
 10x STLC = Ten times the California Code of Regulations (CCR) Title 22 Soluble Threshold Limit Concentration
 TTLc = CCR Title 22 Total Threshold Limit Concentration




 = exceeds 10x STLC
 = exceeds PEL or PEC
 = exceeds at least one soil screening value

TABLE 6
Polychlorinated Biphenyls (PCBs) and Pesticides
Partial Summary of Existing Sediment Sampling and Analysis Results
Vicinity of Big Bear Marina
Big Bear Lake, CA

Boring ID	Depth	Total PCBs (mg/kg dw)	Chlorinated Pesticides (mg/kg dw)				Total (Sum) DDT/DDD/DDE
			Chlordane	4,4-DDD	4,4-DDE	4,4-DDT	
B-70	0-50 cm	ND<0.023	0.02	0.00066 J	0.0011 J	0.0044 B	0.00616 JB
B-206	0-50 cm	ND<0.021	0.029	0.0012 J	0.0014 J	0.0059 B	0.0085 JB
	50-94 cm	ND<0.015	0.015	0.0008 J	0.00066 J	0.0039	0.00536 J
B-208	0-50 cm	--	--	--	--	--	--
	50-122 cm	--	--	--	--	--	--
B-210B	0-40 cm	ND<0.015	ND<0.0014	ND<0.00027	ND<0.23	0.0021 B	0.0021 B
B-212	0-50 cm	--	--	--	--	--	--
B-213	0-50 cm	ND<0.014	ND<0.0013	ND<0.00025	ND<0.00021	0.0014 JB	0.0014 JB
	50-137 cm	ND<0.014	ND<0.0014	ND<0.00026	ND<0.00022	0.0014 JB	0.0014 JB
B-216	0-50 cm	ND<0.017	ND<0.0017	ND<0.00032	ND<0.00027	0.002 JB	0.002 JB
	50-275 cm	ND<0.013	ND<0.0012	ND<0.00023	ND<0.00020	0.0011 JB	0.0011 JB
TEL (mg/kg dw)		0.0341	0.0045	0.00354	0.00142	0.00119	0.007
TEC (mg/kg dw)		0.0598	0.00324	0.00488	0.00316	0.00416	0.00528
PEL (mg/kg dw)		0.277	0.0089	0.00851	0.00675	0.00477	4.45
PEC (mg/kg dw)		0.676	0.0176	0.028	0.0313	0.0629	0.572
Eco-SSL (mg/kg dw)		--	--	--	--	--	0.021
SSV (mg/kg)		0.02	--	--	--	--	0.0025
STLC (mg/L)		5	.25	.1	.1	.1	.1
TTLC (mg/kg)		50	2.5	1	1	1	1

ND = not detected; value shown indicates the method detection limit (MDL)

J = result is less than the reporting limit (RL) but greater than or equal to the method detection limit (MDL) and the concentration is an approximate value

B = compound was found in the blank and sample

-- = not analyzed

ne = not established

mg/kg dw = milligram per kilogram (parts per million), dry weight basis

mg/kg = milligram per kilogram (parts per million), wet weight basis

mg/L = milligram per liter (parts per million, mass per unit liquid volume basis)

TEL = Threshold Effect Level in Freshwater Sediment (NOAA Screening Quick Reference Tables [SQuiRTs])

TEC = Threshold Effect Concentration in Freshwater Sediment (NOAA SQuiRTs)

PEL = Probable Effect Level in Freshwater Sediment (NOAA SQuiRTs)

PEC = Probable Effect Concentration in Freshwater Sediment (NOAA SQuiRTs)

Eco-SSL = U.S. EPA Ecological Soil Screening Levels, Interim Final

SSV = U.S. EPA Region IV Soil Screening Value

STLC = California Code of Regulations (CCR) Title 22 Soluble Threshold Limit Concentration

TTLC = CCR Title 22 Total Threshold Limit Concentration

= exceeds PEL or PEC

= exceeds at least one soil screening value

TABLE 7
Pre-dredge Sediment Sampling and Analysis Summary
Vicinity of Big Bear Marina
Big Bear Lake, CA

Boring ID	Sieve	Total Petroleum Hydrocarbons (TPH)				PAHs	BETX	Title 22 Metals	PCBs	Pesticides	TOC	Nutrients		
		GRO	DRO	ORO	Kjeldahl Nitrogen							Nitrate + Nitrite	Phosphorus	
S1	--	--	--	--	X	X	--	--	--	--	--	--	--	--
S2	--	X	--	--	--	X	--	--	--	--	--	--	--	--
S3	--	X	--	--	--	X	--	--	--	--	--	--	--	--
S4	--	X	X	X	C1	X	X	--	X	--	X	X	X	X
S5	--	X	X	X	C1	X	C2	--	C3	--	CA	CA	CA	C4
S6	--	--	--	--	X	--	--	--	--	--	--	--	--	--
S7	X	X	X	X	X	X	X	--	X	--	X	X	X	X
S8	X	X	X	X	X	X	X	--	X	--	X	X	X	X
S9	X	X	X	X	X	X	--	--	--	--	--	--	--	--
<i>Analytical Method</i>	ASTM D422	EPA 8015B	EPA 8015B	EPA 8015B	EPA 8270C-SIM	EPA 8260B	EPA 6010B/7470A	na	EPA 3510C/8081A	na	EPA 5M/4500 Norg C	EPA 300.0	EPA 300.0	EPA 300.0

X = Perform indicated analysis

-- = Do not perform indicated analysis

C1 = Contingent upon results of TPH analyses, and PAH analyses at S1 and S6

C2 = Contingent upon results of Title 22 Metals analysis at S4

C3 = Contingent upon results of Pesticides analysis at S4

C4 = Contingent upon results of Nutrients analyses at S4

na = Not applicable

GRO = gasoline-range organics

DRO = diesel-range organics

ORO = oil-range organics

PAHs = polycyclic aromatic hydrocarbons

BETX = benzene, ethylbenzene, toluene and xylenes

PCBs = polychlorinated biphenyls

TOC = total organic carbon