

ATTACHMENT 6 – PROJECT BUDGET

Groundwater Monitoring Wells Installation Project – Sylmar Basin Los Angeles Department of Water and Power

Budget tables for the following three tasks are provided and also summarized on a Project Totals table:

- Task 1: Specification Development, Bid, Award, Permitting & Planning, October 2011 - December 2012
- Task 2: Construct, Develop & Sample First Well (MI-MW-01), January - April 2013
- Task 3: Construct, Develop, Sample Second Well (MI-MW-02), April - June 2013

As discussed in the application questionnaire and the schedule provided as Attachment 7, Task 1 work commenced in October 2011 and is expected to be completed in December 2012, prior to the expected announcement of awards for the Local Groundwater Assistance Grant Program. The Task 1 budget includes estimated costs specific to the Sylmar Basin project for work related to specification development, bid and award of the construction contract, public outreach, environmental and local permitting, contracting of a consulting professional geologist, and some preparation of necessary plans, including work plans, health and safety plans, and sampling and analysis plans. Information on Task 1 actual expenditures should be available if/when a funding agreement is negotiated with the Department of Water Resources (DWR) and can be provided at that time.

The budget tables for Task 2 and 3 contain engineering estimates prepared in advance of the Project award. Estimates prepared by the Selected Contractor are expected to be available by late 2012 and can be provided when a funding agreement is negotiated with the DWR. The actual billing rate for the Consulting Professional Geologist will also be provided at that time.

Average LADWP labor rates for existing personnel are used for each applicable job classification to work as an estimate given that project assignments are not set at this time. Labor rates for 2012-13 are not yet available, therefore rates from 2011-12 were used and an escalation rate applied. Indirect cost percentages, including the fringe benefit rate, are also reflective of 2011-12. Updates should be available for a revised budget when a funding agreement is negotiated with the DWR.

Rates for LADWP laboratory analysis are provided as “shop rates” that include labor, materials, equipment costs, etc. Cost estimates for sample analysis by the LADWP laboratories will be refined once the Sampling Analysis Plan is finalized and can be provided when a funding agreement is negotiated with the DWR.

Grant funds would be applied to construction costs for the second well (Task 3), as shown. In-kind services and remaining costs will be funded out of the LADWP’s Water Revenue Fund. An application for the overall project to receive a low-interest loan from the Safe Drinking Water State Revolving Fund has been submitted to the California Department of Public Health, but as of the date of this grant application submittal, has not been approved.

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**Monitoring Wells Installation Project - Sylmar Basin
Los Angeles Department of Water and Power**

TASK 1: Specification Development, Bid, Award, Permitting & Planning, October 2011 - December 2012	Estimated Costs			Proposed Funding Source		TOTAL COSTS
	\$/Hour or \$/Unit or % of Cost	Hours or Units or Cost	Ext.	LADWP	LGA Grant	
Cost Category						
LADWP Salaries and Wages (Total)		570	\$29,738	\$29,738	\$0	\$29,738
7246 Civil Engineering Associate	\$54.79	358	\$19,615	\$19,615	\$0	\$19,615
7304 Environmental Supervisor	\$57.22	0	\$0	\$0	\$0	\$0
7310 Environmental Specialist	\$49.33	22	\$1,085	\$1,085	\$0	\$1,085
1785 Public Relations Specialist	\$44.20	190	\$8,398	\$8,398	\$0	\$8,398
Escalation Cost (based on 2011-12 base rates)	2.2%	\$29,098	\$640	\$640	\$0	\$640
Employee Fringe Benefits (2011-2012)	73%	\$29,738	\$21,709	\$21,709	\$0	\$21,709
Consultants/Contractual		90	\$18,378	\$18,378	\$0	\$18,378
Construction Contractor	\$1	0	\$0	\$0	\$0	\$0
Geotechnical Consultant	\$200	90	\$18,000	\$18,000	\$0	\$18,000
Escalation Cost (based on 2011-12 estimates)	2.1%	\$18,000	\$378	\$378	\$0	\$378
Indirect Costs (Total)			\$8,921	\$8,921	\$0	\$8,921
Supervisory & Engineering Overhead (2011-12)	14%	\$29,738	\$4,163	\$4,163	\$0	\$4,163
Administration & General Overhead (2011-12)	16%	\$29,738	\$4,758	\$4,758	\$0	\$4,758
Other			\$0	\$0	\$0	\$0
TOTAL TASK 1 COSTS				\$78,747	\$0	\$78,747

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TASK 2: Construct, Develop & Sample First Well (MI-MW-01), January - April 2013 Cost Category	Estimated Costs			Proposed Funding Source		TOTAL COSTS
	\$/Hour or \$/Unit or % of Cost	Hours or Units or Cost	Ext.	LADWP	LGA Grant	
LADWP Salaries and Wages (Total)		700	\$39,296	\$39,296	\$0	\$39,296
7246 Civil Engineering Associate	\$54.79	660	\$36,161	\$36,161	\$0	\$36,161
7304 Environmental Supervisor	\$57.22	40	\$2,289	\$2,289	\$0	\$2,289
7310 Environmental Specialist	\$49.33	0	\$0	\$0	\$0	\$0
1785 Public Relations Specialist	\$44.20	0	\$0	\$0	\$0	\$0
Escalation Cost	2.2%	\$38,450	\$846	\$846	\$0	\$846
Employee Fringe Benefits (2011-2012)	73%	\$39,296	\$28,686	\$28,686	\$0	\$28,686
LADWP Laboratory Costs		674	\$99,150	\$99,150	\$0	\$99,150
Environmental Laboratory - shop rate	\$150.00	484	\$72,600	\$72,600	\$0	\$72,600
Water Quality Laboratory - shop rate	\$140.00	190	\$26,550	\$26,550	\$0	\$26,550
Consultants/Contractual (Total)			\$941,085	\$941,085	\$0	\$941,085
Construction Contractor	\$738,395	1	\$738,395	\$738,395	\$0	\$738,395
Geotechnical Consultant	\$200	917	\$183,333	\$183,333	\$0	\$183,333
Escalation Cost	2.1%	\$921,729	\$19,356	\$19,356	\$0	\$19,356
Indirect Costs (Total)			\$11,789	\$11,789	\$0	\$11,789
Supervisory & Engineering Overhead (2011-12)	14%	\$39,296	\$5,501	\$5,501	\$0	\$5,501
Administration & General Overhead (2011-12)	16%	\$39,296	\$6,287	\$6,287	\$0	\$6,287
Other			\$0	\$0	\$0	\$0
TOTAL TASK 2 COSTS				\$1,120,006	\$0	\$1,120,006

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TASK 3: Construct, Develop, Sample Second Well (MI-MW-02), April - August 2013 Cost Category	Estimated Costs			Proposed Funding Source		TOTAL COSTS
	\$/Hour or \$/Unit or % of Cost	Hours or Units or Cost	Ext.	LADWP	LGA Grant	
LADWP Salaries and Wages (Total)		570	\$32,017	\$32,017	\$0	\$32,017
7246 Civil Engineering Associate	\$54.79	530	\$29,039	\$29,039	\$0	\$29,039
7304 Environmental Supervisor	\$57.22	40	\$2,289	\$2,289	\$0	\$2,289
7310 Environmental Specialist	\$49.33	0	\$0	\$0	\$0	\$0
1785 Public Relations Specialist	\$44.20	0	\$0	\$0	\$0	\$0
Escalation Cost	2.2%	\$31,328	\$689	\$689	\$0	\$689
Employee Fringe Benefits (2011-2012)	73%	\$32,017	\$23,372	\$23,372	\$0	\$23,372
LADWP Laboratory Costs		344	\$50,820	\$50,820	\$0	\$50,820
Environmental Laboratory - shop rate	\$150.00	268	\$40,200	\$40,200	\$0	\$40,200
Water Quality Laboratory - shop rate	\$140.00	76	\$10,620	\$10,620	\$0	\$10,620
Consultants/Contractual (Total)			\$409,762	\$159,762	\$250,000	\$409,762
Construction Contractor	\$261,334	1	\$261,334	\$11,334	\$250,000	\$261,334
Geotechnical Consultant	\$200	700	\$140,000	\$140,000	\$0	\$140,000
Escalation Cost	2.1%	\$401,334	\$8,428	\$8,428	\$0	\$8,428
Indirect Costs (Total)			\$9,605	\$9,605	\$0	\$9,605
Supervisory & Engineering Overhead (2011-12)	14%	\$32,017	\$4,482	\$4,482	\$0	\$4,482
Administration & General Overhead (2011-12)	16%	\$32,017	\$5,123	\$5,123	\$0	\$5,123
Other			\$0	\$0	\$0	\$0
TOTAL TASK 3 COSTS				\$275,576	\$250,000	\$525,576

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Los Angeles Department of Water and Power

TOTAL PROJECT BUDGET - TASKS 1, 2 & 3 Cost Category	Escalated Estimated Costs		Proposed Funding Source		TOTAL COSTS
	Hours or Units or Cost	Ext.	LADWP/CWSRF	LGA GRANT	
Salaries and Wages	1840	\$101,051	\$101,051	\$0	\$101,051
<i>Civil Engineering Associate</i>	1548	\$84,815	\$84,815	\$0	\$84,815
<i>Environmental Supervisor</i>	80	\$4,578	\$4,578	\$0	\$4,578
<i>Environmental Specialist</i>	22	\$1,085	\$1,085	\$0	\$1,085
<i>Public Relations Specialist</i>	190	\$8,398	\$8,398	\$0	\$8,398
<i>Escalation Cost (based on 2011-12 base rates)</i>	---	\$2,175	\$2,175	\$0	\$2,175
Employee Fringe Benefits (2011-2012)		\$73,767	\$73,767	\$0	\$73,767
LADWP Laboratory Costs		\$149,970	\$149,970	\$0	\$149,970
Consultants/Contractual		\$1,369,225	\$1,119,225	\$250,000	\$1,369,225
Indirect Costs (2011-12)		\$30,315	\$30,315	\$0	\$30,315
Other			\$0	\$0	\$0
TOTAL PROJECT COSTS			\$1,474,329	\$250,000	\$1,724,329

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SYLMAR BASIN - ESTIMATED CONSTRUCTION COSTS FOR TWO MONITORING WELLS

Description	Quantities		Total Quantities	Unit Prices	Estimates		Total Estimate
	MI-MW-01	MI-MW-02			MI-MW-01	MI-MW-02	
Site Mobilization, sound barriers, utility air knife, traffic control, sanitation, saw cutting, security	1	1	2	\$69,461	\$69,461	\$69,461	\$138,923
Drill 28-Inch borehole Install 22-inch conductor casing and sanitary seal	50	0	50	\$440	\$22,000	\$0	\$22,000
Drill 24-Inch borehole Install 18-inch conductor casing and sanitary seal	0	50	50	\$360	\$0	\$18,000	\$18,000
Drill 8-inch pilot borehole	1,100	500	1,600	\$83	\$91,300	\$41,500	\$132,800
Backfill lower section of pilot borehole	80	140	220	\$29	\$2,320	\$4,060	\$6,380
Ream pilot borehole to 20 inches	1,020	0	1,020	\$89	\$90,667	\$0	\$90,667
Ream pilot borehole to 16 inches	0	360	360	\$71	\$0	\$25,600	\$25,600
4-inch blank well casing	195	370	565	\$14.25	\$2,779	\$5,273	\$8,051
4-inch slotted well screen	80	80	160	\$17.75	\$1,420	\$1,420	\$2,840
2-inch blank well casing	1765	0	1,765	\$10	\$16,841	\$0	\$16,841
2-inch slotted well screen	120	0	120	\$12.04	\$1,445	\$0	\$1,445
1-inch blank well casing	1,960	370	2,330	\$4.83	\$9,473	\$1,788	\$11,262
1-inch slotted well screen	200	80	280	\$6.33	\$1,267	\$507	\$1,773
Sand filter and annular seals for 20-inch borehole	1,020	0	1,020	\$43	\$43,917	\$0	\$43,917
Sand filter and annular seals for 16-inch borehole	0	360	360	\$38	0	\$13,778	\$13,778
Well Development per hour	96	48	144	\$212	\$20,320	\$10,160	\$30,480
Split-spoon soil sampling	4	0	4	\$250	\$1,000	\$0	\$1,000
Simulprobe WQ sampling	20.4	8.4	29	\$2,738	\$55,845	\$22,995	\$78,840
Temporary well 500 ft BGS	1	0	1	\$17,000	\$17,000	\$0	\$17,000
Temporary well 1,000 ft BGS	1	0	1	\$17,000	\$17,000	\$0	\$17,000
4-inch ZIST in Zone 1 (50 ft)	1	1	2	\$9,500	\$9,500	\$9,500	\$19,000
4-inch ZIST in Zone 2 (125 ft)	1		1	\$10,000	\$10,000	\$0	\$10,000
4-inch ZIST in Zone 3 (300 ft)		1	1	\$9,500	\$0	\$9,500	\$9,500
2-inch ZIST in Zone 3 (300 ft)	1		1	\$9,000	\$9,000	\$0	\$9,000
2-inch ZIST in Zone 4 (485 ft)	1		1	\$9,000	\$9,000	\$0	\$9,000
2-inch ZIST in Zone 5 (960 ft)	1		1	\$11,000	\$11,000	\$0	\$11,000
In-Situ Level Troll 500	5	2	7	\$3,375	\$16,875	\$6,750	\$23,625
In-Situ Rugged Cable System	2,058	389	2,447	\$5.45	\$11,216	\$2,117	\$13,333
Dispose drill mud to pvt disposal site	200	50	250	\$93	\$18,500	\$4,625	\$23,125
Dispose wastewater to pvt disposal site	6,000	3,000	9,000	\$0.50	\$3,000	\$1,500	\$4,500
Transport and store wastewater at MI WF	24,000	12,000	36,000	\$0.50	\$12,000	\$6,000	\$18,000
Transport and discharge wastewater to SS at MIWF	6,000	3,000	9,000	\$0.15	\$900	\$450	\$1,350
Transport and discharge wastewater to SS at VNCS	6,000	3,000	9,000	\$0.30	\$1,800	\$900	\$2,700
Portable wastewater treatment system	1	0	1	\$95,000	\$95,000	\$0	\$95,000
Process and discharge wastewater	6,000	3,000	9,000	\$0.15	\$900	\$450	\$1,350
Drill rig standby	10	10	20	\$500	\$5,000	\$5,000	\$10,000
Aquifer Pump Test (optional)	40		40	\$266	\$10,650	\$0	\$10,650
Appendix A General Conditions	1	0	1	\$50,000	\$50,000	\$0	\$50,000
TOTALS					\$738,395	\$261,334	\$999,729