



Memorandum

MONTEREY REGIONAL WASTE MANAGEMENT DISTRICT

Reviewed by Wmm Date 2/5/08
General Manager

DATE: February 1, 2008
TO: General Manager
FROM: Senior Engineer
SUBJECT: Groundwater Monitoring Program - Approval of Three-Year Contract Extension with Golder Associates

RECOMMENDATION: That the Board of Directors authorize the execution of a three-year contract extension (2008-2010) with Golder Associates, Inc. of Mountain View, CA to provide services related to the ongoing groundwater monitoring program for the Monterey Peninsula Landfill (MPL) at a total cost of \$108,000. Services to be provided include field sampling, laboratory analysis, statistical data analysis, and regulatory compliance report preparation for submittal to the California Regional Water Quality Control Board (CRWQCB).

BACKGROUND

The services under consideration are required for the MPL to remain in compliance with Monitoring and Reporting Program No. R3-2006-0017, issued by the CRWQCB.

GOLDER'S QUALIFICATIONS

Bill Fowler, previously with EMCON Associates, and then an independent consultant (WLF Consulting), is now employed by Golder Associates. Mr. Fowler has 18 years of experience consulting to the District regarding the hydrogeologic conditions and groundwater monitoring at the MPL and has intimate knowledge of the hydrogeology of the District's site. He was the project manager and principal author of the 1992 Groundwater Monitoring Plan and the 1991 Hydrogeologic Study of the District's site, and assisted in evaluating groundwater conditions as they relate to the liner design of Modules 3 and 4. He is thoroughly familiar with the District's monitoring well network and monitoring requirements, and is clearly the most knowledgeable individual when it comes to the site's hydrogeology. In addition, he has a great deal of credibility with the CRWQCB staff. Mr. Fowler is well qualified to perform this work for the District.

In December 2002, the District retained Mr. Fowler to provide services related to the review and updating of the District's groundwater monitoring program. Components of the monitoring program that were reviewed and updated by Mr. Fowler included the following:

- Reviewed the hydrogeologic conditions of the site, including the historical groundwater elevation data and groundwater flow directions.
- Reviewed and modified the existing monitoring well network.
- Evaluated the statistical methods used to ensure that they are appropriate for the site. Evaluated intra-well versus inter-well methods and developed recommendations for the site.
- Evaluated the detection monitoring parameters and "Constituents of Concern" for the site to determine if they are the most appropriate parameters for detection of a potential release.

- Prepared proposed revisions to the Monitoring and Reporting Program, for review and approval by the CRWQCB.
- Provided an assessment of the potential effects of the proposed Salinas River Diversion Facility on the hydrogeologic conditions at the landfill.
- Prepared an Optional Demonstration Report (ODR) that provided the technical basis for the proposed modifications to the Groundwater Monitoring Program.

The ODR and proposed revisions to Monitoring and Reporting Program were submitted to the CRWQCB in December 2003. Based on Mr. Fowler's recommendations, major revisions to the groundwater monitoring program were approved by the CRWQCB. A number of monitoring wells were abandoned, four new wells were installed, monitoring parameters were revised, and sampling frequencies were adjusted. These changes to the monitoring program were implemented to ensure that the system provides for the earliest possible detection of a release of pollutants from the landfill.

In July 2004, the Board approved a contract with Mr. Fowler of Golder Associates, to oversee the installation of four new groundwater monitoring wells and the decommissioning of two old wells. This work was completed satisfactorily. Golder Associates also provided assistance with the initial implementation of the revised monitoring program, including trend analysis of the historical data.

In December 2004, the Board approved a three-year contract with Golder to provide services related to the ongoing groundwater monitoring program for the landfill. Golder has been providing groundwater monitoring services to the District for the past three years (2005 through 2007). Golder's contract with the District was fulfilled with the completion of the Second Semi-Annual 2007 Monitoring Report, submitted to the CRWQCB on November 14, 2007.

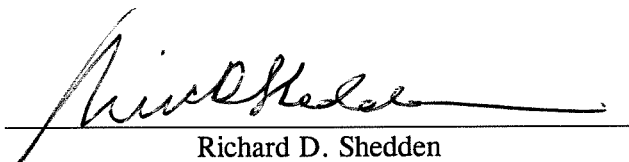
GOLDER PROPOSAL

A copy of Golder's proposal, along with the supporting data, is attached for your review. The contract includes analytical laboratory fees, estimated at \$43,320 for the three-year period. The total contract amount of \$108,000 is highly competitive and represents a significant value to the District.

CONCLUSION

Golder Associates has submitted a proposal for groundwater monitoring services which is very responsive to the District's needs. We have been very pleased with Golder's performance in providing groundwater monitoring services over the past three years, and believe that their pricing is very competitive. Maintaining the continuity of the groundwater monitoring program is important. Frequently switching back and forth between consulting firms is not practical or cost-effective.

It is therefore recommended that the Board authorize the execution of a contract extension with Golder Associates to provide ongoing groundwater monitoring services for another three-year period (for the years 2008, 2009, and 2010), at a total cost of \$108,000. Adequate funding has been included in the Environmental Services Budget to cover the costs of these services.


Richard D. Shedden

Golder Associates Inc.
2580 Wyandotte Street, Suite G
Mountain View, CA 94043
Telephone: (650) 386-3828
Fax: (650) 386-3815



January 23, 2008

Mr. Richard Shedden, P.E.
Monterey Regional Waste Management District
14201 Del Monte Blvd.
Marina, CA 93933

**RE: PROPOSAL FOR CONTINUATION OF REGULATORY COMPLIANCE
MONITORING SERVICES - 2008 THROUGH 2010
MONTEREY PENINSULA LANDFILL
MARINA, CALIFORNIA**

Dear Mr. Shedden:

Golder Associates Inc. is pleased to present this proposal to the Monterey Regional Waste Management District (District), for providing monitoring services for 2008 through 2010 at the Monterey Peninsula Landfill (Landfill). This work would be a continuation of the services provided to the District by Golder from 2005 through 2007.

The scope of work includes collecting and analyzing samples from monitoring locations as specified in the Facility's Monitoring and Reporting Program (MRP) (which is part of the site's Waste Discharge Requirements (WDR) Order No. R3-2006-0017), performing statistical analyses of the data, and preparing regulatory compliance reports for submittal to the Regional Water Quality Control Board (RWQCB).

As you are aware, we have successfully completed our 2005-2007 monitoring contract for the facility, and most importantly have the Landfill in good standing with the RWQCB with regards to environmental compliance. Specifically, we note the following accomplishments and advantages that we provide to the District going forward:

- Since taking on the contract, we have resolved an outstanding Notice of Violation (NOV) relating to exceedances of groundwater concentration limits and the Landfill has not received any further NOV's related to groundwater, surface water, or leachate.
- We worked with the RWQCB to revise the monitoring parameter list and statistical approach being used at the Landfill to greatly reduce the number of "false positives" that were occurring associated with inorganic constituents. This, in turn, has greatly reduced RWQCB concerns with the site related to groundwater and saved significant cost associated with responding to false positives. Responding to a false positive typically requires re-sampling, laboratory analyses and additional reporting, which can cost upwards of \$3000 per occurrence.
- We have worked with the Landfill to select a new laboratory contractor to further reduce unit costs on a per sample basis, and to eliminate false positives associated with low level VOC

detections, which were commonplace prior to our involvement. Again, the reduction of responses to false positives realized significant cost savings for the District.

- We have negotiated with the RWQCB to eliminate unnecessary monitoring wells and piezometers, thereby reducing field time and laboratory costs. At your request, we recently obtained approval from the RWQCB to cut back quarterly water level surveys to semi-annual surveys. This will save the District approximately \$2000 annually.
- We completed our three year contract with all reports delivered on-time and on budget. In fact, we came in approximately \$10K under budget for the routine services outlined in the contract.
- I personally have 18 years of experience consulting to the District regarding the hydrogeologic conditions and groundwater monitoring at the Landfill. Our team from the past three years, including Field Solutions and GeoChem Applications, will remain intact and provide uninterrupted service to the District with no transition costs or delays.
- We can provide a very competitive cost to the District going forward since we understand exactly the level of effort required to get the work done.

SCOPE OF WORK

The scope of work for the compliance program for the Landfill includes the following items, which occur on a semi-annual basis:

- Labor and equipment charges for groundwater level measurement and sampling of 16 groundwater wells/sampling points, two surface water samples, and two leachate samples.
- Analytical laboratory fees for organic and inorganic analyses for samples listed above plus quality control samples (duplicate samples and blanks).
- Data quality evaluation (QA/QC), importing of laboratory data in the site data base, and statistical and non-statistical evaluation of all analytical results.
- Evaluation and contouring of site groundwater flow conditions.
- Data evaluation and calculation of contaminant mass removal from the Landfill associated with leachate, landfill gas, and landfill gas condensate extraction.
- Preparation of a semi-annual and annual report including summary of all data, compliance evaluation, preparation of tables, figures and appendices.
- Preparation and uploading of semi-annual and annual data and reports to the State's Geotracker database system.

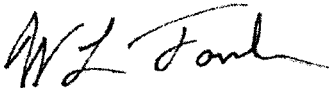
COST ESTIMATE

A summary table of the proposed monitoring and reporting costs for the Landfill is attached. We estimate that each semi-annual event will cost \$18,000 for an annual total of \$36,000. A detailed cost estimate indicating how the costs were estimated by task is attached. We are proposing to hold the costs of our services steady through the three year contract extension. Tasks related to sampling, data analyses and reporting will be billed on a time and materials basis on a monthly basis; analytical fees will be billed at cost plus 10%. Golder presents this not-to-exceed cost estimate with the understanding that we will not exceed the estimated cost for the negotiated scope of work without your prior authorization.

We appreciate the opportunity to provide this proposal and look forward to continuing work on this project with you. Please sign and return where indicated to authorize the requested contract extension. Please feel free to call us should you have any questions regarding this proposal.

Sincerely,

GOLDER ASSOCIATES INC.



William L. Fowler, P.G., C.E.G.
Senior Consultant

Attachments:

Summary Table of Costs
Detailed Cost Estimate
Golder Associates Inc. 2008 Fee Schedule

Golder Associates Inc.

COST ESTIMATE FOR CONTRACT EXTENSION

CLIENT: Monterey Regional Waste Management District

DATE: January 14, 2008

PROJECT: Groundwater Monitoring and Reporting (Jan 2008- Dec 2010)

ITEM DESCRIPTION	GOLDER SERVICES	ANALYTICAL COST	ANNUAL TOTAL	3-YR TOTAL
Jan-Jun 2008 Monitoring Event	\$10,780	\$7,220		
July-Dec 2008 Monitoring Event	\$10,780	\$7,220	\$36,000	
Jan-Jun 2009 Monitoring Event	\$10,780	\$7,220		
July-Dec 2009 Monitoring Event	\$10,780	\$7,220	\$36,000	
Jan-Jun 2010 Monitoring Event	\$10,780	\$7,220		
July-Dec 2010 Monitoring Event	\$10,780	\$7,220	\$36,000	
Subtotal	\$64,680	\$43,320		
Contract Amount				\$108,000

Golder contract amount includes field services, laboratory analytical charges and reporting. This cost estimate includes the attached Semi-Annual Cost estimate, and the Golder 2008 Fee Schedule. Services outside the defined groundwater monitoring and reporting will be billed in accordance with the attached Fee Schedule. The work covered by this cost estimate shall be performed under the same terms and conditions as those included in the original agreement between Golder and MRWMD dated July 16, 2004. All other terms and conditions of said Agreement, as it may have been modified, shall be and remain the same.

Hereby Authorized:

Signature

Date

Title

Golder Associates, Inc.
COST ESTIMATE

CLIENT: Monterey Regional Waste Management District
 PROJECT: Semi Annual Monitoring Cost Estimate (2008-2010)

DATE: January 4, 2008

ITEM DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST	SUB-TOTAL	TASK TOTAL
SUMMARY:						
TASK 1 - Field Sampling						\$4,010
TASK 2 - Laboratory Fees						\$7,220
TASK 3 - Statistical Analyses						\$2,975
TASK 4 - Report Preparation						\$3,793
Golder w/o lab						\$10,778
PROJECT TOTAL						\$17,998

TASK 1 - Field Sampling

SCOPE: Scheduling and coordination, sampling of groundwater, surface water, and leachate. Ship samples to lab under chain of custody.

Professional Services

Administrative Support	hour	\$60	0	\$0		
Senior Technician	hour	\$75	0	\$0		
Staff Geologist	hour	\$95	1	\$95		
Project Geologist	hour	\$110	0	\$0		
Senior Geologist	hour	\$190	1	\$190		
Practice Leader	hour	\$195	0	\$0		
<i>Communications fee (5% of labor)</i>				\$14	\$299	
<i>Chargeable Equipment/Consumable Materials</i>						
Per Location Sampling Charge	each	\$200	16	\$3,200		
Leachate, cond., sda, and surface	each	\$60	6	\$360		
Field sample filters	each	\$25	6	\$150	\$3,710	
TASK TOTAL						\$4,010

TASK 2 - Laboratory Fees

per sample cost	each	\$285	22	\$6,270		
blanks	each	\$75	3	\$225		
EDF	each	\$65	1	\$65		
<i>Administration fee (10% of Indirect)</i>				\$656	\$7,216	
TASK TOTAL						\$7,220

TASK 3 - Statistical Analyses

SCOPE: Perform initial review of data for exceedances, import data to DumpStat data base, calculate concentration limits for all naturally occurring parameters with sufficient data, prepare tables and appendices

Professional Services

Administrative Support	hour	\$60	0	\$0		
Staff Geologist	hour	\$95	2	\$190		
Project Geologist	hour	\$110	0	\$0		
Senior Geologist	hour	\$190	2	\$380		
Practice Leader	hour	\$195	0	\$0		
<i>Communications fee (5% of labor)</i>				\$29	\$599	
<i>Indirect Charges</i>						
Statistical Consultant	hour	\$135	16	\$2,160		
<i>Administration fee (10% of Indirect)</i>				\$216	\$2,376	
TASK TOTAL						\$2,975

TASK 4 - Report Preparation

SCOPE: Prepare report documenting semi annual event

Professional Services

Golder Associates, Inc.
COST ESTIMATE

CLIENT: Monterey Regional Waste Management District
 PROJECT: Semi Annual Monitoring Cost Estimate (2008-2010)

DATE: January 4, 2008

ITEM DESCRIPTION	UNIT	UNIT COST	QUANTITY	COST	SUB-TOTAL	TASK TOTAL
Administrative Support	hour	\$60	2	\$120		
Senior Drafter/CADD	hour	\$100	6	\$600		
Staff Geologist	hour	\$95	16	\$1,520		
Senior Geologist	hour	\$190	6	\$1,140		
Practice Leader	hour	\$195	0	\$0		
<i>Communications fee (5% of labor)</i>				\$163	\$3,543	
Consumable Materials						
Report materials	lot	\$50	5	\$250	\$250	
				TASK TOTAL		\$3,793
				Semi Annual TOTAL		\$17,998

Golder Associates Inc.
Mountain View, California
Professional Services Rate Schedule for Calendar Year 2008

Invoices from Golder Associates Inc. include all labor charges, other direct costs, and costs associated with in-house services. Charges include only those services directly attributable to the execution of the work. Time spent when traveling in the interest of work will be charged in accordance with the hourly rates. An additional 50% will be added to the applicable labor rate for expert testimony, including time spent in depositions and the preparation and presentations of testimony.

Labor charges are based upon standard hourly billing rates for each category of staff. The billing rates include costs for salary, payroll taxes, insurance associated with employment, benefits (including holiday, sick leave, and vacation), administrative overheads, and profit. Rates by labor category are as follows:

<i>Personnel Level</i>	<i>Personnel Category</i>	<i>Hourly Rate (U.S. \$)</i>
LA1	Admin Support	\$65
LA2	Staff Admin Support	\$70
LA3	Senior Admin Support	\$75
LT1	Technician	\$70
LT2	Staff Technician	\$80
LT3	Senior Technician	\$90
LD1	Draftsperson	\$70
LD2	Staff Draftsperson	\$80
LD3	Senior Draftsperson	\$90
LV1	Engineer/Scientist	\$90
LV2	Staff Engineer/Scientist	\$100
LV3	Project Engineer/Scientist	\$120
LV4	Senior Project Engineer/Scientist	\$140
LV5	Senior Engineer/Scientist	\$165
LV6	Senior Consultant	\$190
LV7	Practice/Program Leader	\$220

Other direct costs, including materials, travel, subsistence, and subcontractor costs, will be invoiced at cost plus a minimum general and administrative fee of 15%.

Office Service Fee: Project non-labor office costs including telephone, fax transmissions, personal computers, and in-house photocopying will be billed at 6% of the total labor fees (this does not include large-volume copying by an external printing facility). This Office Service Fee does not include CAD computers, color photocopies, or drawing reproduction. These services will be billed at the following rates:

<i>SERVICE</i>	<i>RATE</i>
GIS/CAD Computers	\$20/hour
Color Photocopies	\$0.20/copy
Plotter (D & E sizes)	\$5 per sf ¹

- In-house plots (color on paper); \$1/sf (B&W on paper)

Rates for laboratory services and use of equipment owned by Golder Associates Inc. will be provided upon request.