



March 25, 2002

Reverend Sura D. Phoenix  
First Christian Church  
1190 Davis Street  
San Leandro, CA 94577

Subject: *Quarterly Groundwater Monitoring Report, Fourth Quarter 2001*  
First Christian Church  
1190 Davis Street  
San Leandro, California  
Delta Project No. D000-306

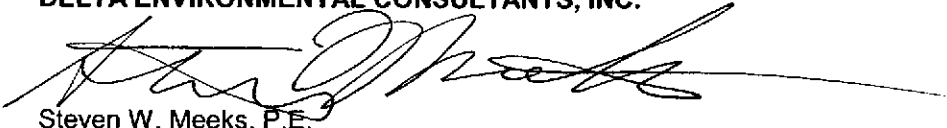
Dear Reverend Phoenix:

Delta Environmental Consultants, Inc. is submitting the attached copy of the laboratory analytical results (Enclosure A) for the groundwater sample collected from monitoring well MW-5 during the fourth quarter 2001. This well is located at the First Christian Church, 1190 Davis Street, San Leandro, California. The groundwater sample was collected during quarterly sampling of the ARCO Products Company Service Station No. 2111, located at 1156 Davis Street, San Leandro, California.

If you have any questions regarding this letter, please call Steven Meeks at (916) 536-2613.

Sincerely,

**DELTA ENVIRONMENTAL CONSULTANTS, INC.**



Steven W. Meeks, P.E.  
Project Manager

SWM (CL012.306.doc)  
Enclosure

Cc: Amir Gholami – ACHCSA  
Paul Supple – ARCO Products Company

3164 Gold Camp Drive  
Suite 200  
Rancho Cordova, CA 95670-6021  
U.S.A.  
916/638-2085  
FAX: 916/638-8385

MAR 28 2002

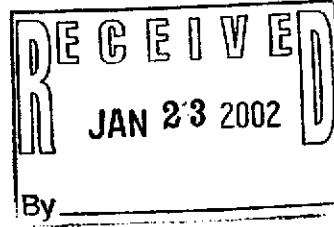
**ENCLOSURE A**

Copy of Certified Analytical Results  
for  
Monitoring Well MW-5  
And  
Chain of Custody



January 14, 2002

Steven Meeks  
Delta Environmental Consultants (Rancho Cordova)  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova, CA 95670  
RE: ARCO 2111, San Leandro, CA / S201009



Enclosed are the results of analyses for samples received by the laboratory on 01/02/02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew  
Client Services Representative

*For*  
Lito Diaz  
Laboratory Director

CA ELAP Certificate Number 1624





Delta Environmental Consultants (Rancho Cordova)  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 2111, San Leandro, CA  
Project Number: 2111, San Leandro, CA  
Project Manager: Steven Meeks

**Reported:**  
01/14/02 17:13

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5	S201009-01	Water	12/28/01 10:40	01/02/02 14:15





Delta Environmental Consultants (Rancho Cordova)  
3164 Gold Camp Drive Ste. 200  
Rancho Cordova CA, 95670

Project: ARCO 2111, San Leandro, CA  
Project Number: 2111, San Leandro, CA  
Project Manager: Steven Meeks

Reported:  
01/14/02 17:13

**Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT**  
**Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-5 (S201009-01) Water Sampled: 12/28/01 10:40 Received: 01/02/02 14:15</b>									
Purgeable Hydrocarbons	ND	10000	ug/l	200	2010128	01/08/02	01/08/02	DHS LUFT	
Benzene	ND	100	"	"	"	"	"	"	
Toluene	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	100	"	"	"	"	"	"	
Xylenes (total)	ND	100	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>10000</b>	<b>500</b>	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>91.0 %</i>		<i>60-140</i>	"	"	"	"	





Delta Environmental Consultants (Rancho Cordova 3164 Gold Camp Drive Ste. 200 Rancho Cordova CA, 95670	Project: ARCO 2111, San Leandro, CA Project Number: 2111, San Leandro, CA Project Manager: Steven Meeks	Reported: 01/14/02 17:13
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**MTBE Confirmation by EPA Method 8260B  
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-5 (S201009-01) Water</b> <b>Sampled: 12/28/01 10:40</b> <b>Received: 01/02/02 14:15</b>									
<b>Methyl tert-butyl ether</b>	<b>10000</b>	<b>100</b>	<b>ug/l</b>	<b>200</b>	<b>2010114</b>	<b>01/10/02</b>	<b>01/10/02</b>	<b>EPA 8260B</b>	
<i>Surrogate: 1,2-DCA-d4</i>		<i>112 %</i>	<i>60-140</i>		"	"	"	"	





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Project Manager: Steven Meeks

Reported:  
01/14/02 17:13

**Total Purgeable Hydrocarbon, BTEX and MTBE by DHS LUFT - Quality Control  
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2010128 - EPA 5030B (P/T)**

**Blank (2010128-BLK1)**

Prepared & Analyzed: 01/08/02

Purgeable Hydrocarbons	ND	50	ug/l							
Benzene	ND	0.50	"							
Toluene	ND	0.50	"							
Ethylbenzene	ND	0.50	"							
Xylenes (total)	ND	0.50	"							
Methyl tert-butyl ether	ND	2.5	"							
Surrogate: a,a,a-Trifluorotoluene	8.60		"	10.0		86.0	60-140			

**LCS (2010128-BS1)**

Prepared & Analyzed: 01/08/02

Benzene	9.37	0.50	ug/l	10.0		93.7	70-130			
Toluene	9.71	0.50	"	10.0		97.1	70-130			
Ethylbenzene	9.92	0.50	"	10.0		99.2	70-130			
Xylenes (total)	27.5	0.50	"	30.0		91.7	70-130			
Methyl tert-butyl ether	10.5	2.5	"	10.0		105	70-130			
Surrogate: a,a,a-Trifluorotoluene	8.89		"	10.0		88.9	60-140			

**Matrix Spike (2010128-MS1)**

Source: S201019-03

Prepared & Analyzed: 01/08/02

Benzene	8.93	0.50	ug/l	10.0	ND	89.3	60-140			
Toluene	9.48	0.50	"	10.0	ND	94.8	60-140			
Ethylbenzene	9.61	0.50	"	10.0	ND	96.1	60-140			
Xylenes (total)	26.6	0.50	"	30.0	ND	88.7	60-140			
Methyl tert-butyl ether	10.8	2.5	"	10.0	4.0	68.0	60-140			
Surrogate: a,a,a-Trifluorotoluene	9.18		"	10.0		91.8	60-140			

**Matrix Spike Dup (2010128-MSD1)**

Source: S201019-03

Prepared: 01/08/02 Analyzed: 01/09/02

Benzene	8.60	0.50	ug/l	10.0	ND	86.0	60-140	3.76	25	
Toluene	9.25	0.50	"	10.0	ND	92.5	60-140	2.46	25	
Ethylbenzene	9.29	0.50	"	10.0	ND	92.9	60-140	3.39	25	
Xylenes (total)	25.9	0.50	"	30.0	ND	86.3	60-140	2.67	25	
Methyl tert-butyl ether	12.4	2.5	"	10.0	4.0	84.0	60-140	13.8	25	
Surrogate: a,a,a-Trifluorotoluene	8.16		"	10.0		81.6	60-140			





Delta Environmental Consultants (Rancho Cordova 3164 Gold Camp Drive Ste. 200 Rancho Cordova CA, 95670	Project: ARCO 2111, San Leandro, CA Project Number: 2111, San Leandro, CA Project Manager: Steven Mecks	Reported: 01/14/02 17:13
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**MTBE Confirmation by EPA Method 8260B - Quality Control  
Sequoia Analytical - Sacramento**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 2010114 - EPA 5030B [P/T]</b>									
<b>Blank (2010114-BLK1)</b>					Prepared & Analyzed: 01/10/02				
Methyl tert-butyl ether	ND	0.50	ug/l						
Surrogate: 1,2-DCA-d4	24.3		"	25.0		97.2	60-140		
<b>LCS (2010114-BS1)</b>					Prepared & Analyzed: 01/10/02				
Methyl tert-butyl ether	24.2	0.50	ug/l	25.0		96.8	70-130		
Surrogate: 1,2-DCA-d4	25.9		"	25.0		104	60-140		
<b>Matrix Spike (2010114-MS1)</b>					Source: S201013-09 Prepared & Analyzed: 01/10/02				
Methyl tert-butyl ether	22.0	0.50	ug/l	25.0	1.7	81.2	60-140		
Surrogate: 1,2-DCA-d4	24.6		"	25.0		98.4	60-140		
<b>Matrix Spike Dup (2010114-MSD1)</b>					Source: S201013-09 Prepared & Analyzed: 01/10/02				
Methyl tert-butyl ether	24.8	0.50	ug/l	25.0	1.7	92.4	60-140	12.0	25
Surrogate: 1,2-DCA-d4	25.7		"	25.0		103	60-140		







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Project Manager: Steven Mecks

Reported:  
01/14/02 17:13

**Notes and Definitions**

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference





Work Authorization No. 2599300

Chain of Custody

ARCO Facility No. <i>2111</i>	City (Facility) <i>San Leandro</i>	Project Manager (Consultant) <i>Steve Meeks</i>
ARCO engineer <i>Paul Supple</i>	Telephone no. (ARCO)	Telephone no. (Consultant) <i>638 2085</i>
Company name (Consultant) <i>Delta</i>		Fax no. (Consultant) <i>638 2385</i>
Address (Consultant) <i>Rancho Cordova</i>		

Laboratory name  
*Sepulveda*

Contract number

Method of shipment

Special detection Limit/reporting

Special QA/QC

Remarks  
*Confirm MTBE by 8260*

- Type or Work
- Dispenser Work
  - Line Job
  - Routine Sampling
  - Site Acquisitions
  - Site Assessment
  - UST Removal
  - UST Replacement
  - Other \_\_\_\_\_

Lab number

- Turnaround time
- Priority Rush  
1 Business Day
  - Rush  
2 Business Days
  - Expedited  
5 Business Days
  - Standard  
10 Business Days

Sample I.D.	Lab no.	Container no.	Matrix			Preservation		Sampling date	Sampling time	BTEX 602/EPA 8021	BTEX/TPH MTBE EPA M602/8021/8015	TPH Modified 8015 Gas <input type="checkbox"/> Diesel <input type="checkbox"/>	Oil and Grease 413.1 <input type="checkbox"/> 413.2 <input type="checkbox"/>	TPH EPA 418.1/SM503E	BTEX + MTBE EPA 8260	BTEX + Standard Oxygenates EPA 8260	TCLP Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	Semi Metals <input type="checkbox"/> VOA <input type="checkbox"/> VOA <input type="checkbox"/>	CAM Metals EPA 8010/7000 TTL <input type="checkbox"/> STL <input type="checkbox"/>	Lead Org./DHS <input type="checkbox"/> Lead EPA 7420/7421 <input type="checkbox"/>	
			Soil	Water	Other	Ice	Acid														
<i>MW-5</i>		<i>4</i>	<i>X</i>	<i>X</i>	<i>X</i>			<i>12-28-01</i>	<i>1040</i>		<i>+</i>										<i>S201009-01</i>

Condition of sample:

Relinquished by sampler <i>Paul Supple</i>	Date <i>01-2-02</i>	Time <i>1415</i>
Relinquished by	Date	Time
Relinquished by	Date	Time

Temperature received: *7.39*

Received by <i>Monica Giesen</i>	Date <i>1/2/02</i>	Time <i>1415</i>
Received by	Date	Time
Received by laboratory	Date	Time