

**QUARTERLY MONITORING REPORT
April 2006 SAMPLING**

**City of Patterson Wastewater Treatment Plant
Groundwater Monitoring Program**

Conducted in Accordance with
Waste Discharge Requirements Order No. 5-00-146

Prepared by:



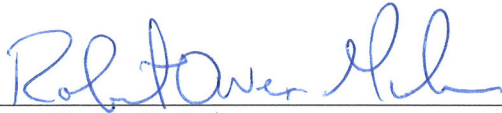
LEE & RO, Inc.
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Rancho Cordova, California 95670-6046

Prepared for:

City of Patterson
Department of Public Works
33 South Del Puerto Avenue
Patterson, CA 95363

May 2006

REPORT PREPARED BY:



5-31-06

Robert Owen Godwin
Registered Civil Engineer

(DATE)
California No. C48045



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1. INTRODUCTION

This Quarterly Groundwater Monitoring Report has been prepared in accordance with the Waste Discharge Requirements for the City of Patterson Wastewater Treatment Plant in the City of Patterson, Stanislaus County, California. The wells were installed as part of the groundwater monitoring program developed to determine if groundwater has been, or has the potential to be, adversely impacted by wastewater treatment and disposal operations. The monitoring program will include an assessment of background conditions and a determination if there has been any impact from wastewater disposal. The groundwater monitoring program consists of the construction and quarterly sampling of ten monitoring wells.

Monitoring wells MW-1 to MW-5 were constructed in March 2001 and have been sampled on a quarterly basis since April 2001. In conjunction with the 1.25 mgd wastewater treatment plant expansion, five new monitoring wells MW-6 to MW-10 were constructed between the months of July and August of 2004. These wells have been sampled on a quarterly basis since being constructed in the summer of 2004.

This report presents the results of the quarterly samples collected on April 12, 2006. Included in this report will be groundwater elevation summaries and contour maps.

2. GROUNDWATER MONITORING WELLS

Figure 1 shows the monitoring well locations.

All ten wells have 15 feet of screen with total depths ranging from 28 to 31.5 feet below ground surface (bgs). A summary of well characteristics is provided in **Table 1**.

The location of monitoring well MW-9 was disputed by the neighbors. Therefore, as of May 10, 2005, MW-9 was removed in accordance with the Stanislaus County requirements. At this time, no new location has been proposed to replace MW-9.

3. GROUNDWATER ELEVATIONS

Groundwater elevations measured to date are summarized in **Figure 2**.

Groundwater elevations measured in this sampling round are presented in **Table 2** and contoured on the map presented in **Figure 3**.

4. MONITORING WELL SAMPLING

The wells were purged and sampled on April 12, 2006 in accordance with the procedures specified in the workplan. Sampling was conducted by Richard Chrun of GeoAnalytical Laboratories. Purge logs are presented in **Appendix A**.

5. GROUNDWATER QUALITY RESULTS

The samples were analyzed by GeoAnalytical Laboratories, a state-certified environmental laboratory. Analytical results for the quarterly samples are summarized in **Table 3**. Laboratory reports for the April 2006 samples are presented in **Appendix B**.

Table 1

Well Construction Summary

	Well Depth (ft)	Completion Type	Slab Surface Elevation	Top of Casing Elevation	Water Elevation 04/12/06 (ft msl)
MW-1	27.5	Below	55.58	54.93	41.69
MW-2	29.0	Above	57.93	59.68	40.74
MW-3	28.0	Above	52.18	53.80	45.65
MW-4	30.0	Above	56.99	58.58	47.63
MW-5	29.0	Above	53.79	55.21	47.19
MW-6	30.0	Above	51.81	55.23	41.92
MW-7	31.5	Above	54.62	58.04	47.75
MW-8	29.5	Above	55.91	59.33	44.87
MW-10	30.0	Below	58.33	58.12	41.74

Table 2

Groundwater Elevations
Patterson WWTP Monitoring Wells

Water Elevations	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10
Water Elevation 1/9/04 (ft msl)	35.97	35.55	N/A	30.97	36.29	N/A	N/A	N/A	N/A	N/A
Water Elevation 1/29/04 (ft msl)	N/A	N/A	35.30	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Water Elevation 4/8/04 (ft msl)	37.24	38.06	35.14	35.36	34.41	N/A	N/A	N/A	N/A	N/A
Water Elevation 7/8/04 (ft msl)	37.61	38.82	33.76	34.44	33.60	N/A	N/A	N/A	N/A	N/A
Water Elevation 10/18/04 (ft msl)	37.90	37.68	34.87	35.40	34.19	36.01	34.33	35.41	38.08	37.38
Water Elevation 1/17/05 (ft msl)	37.83	37.22	37.05	37.72	37.50	36.81	37.54	37.98	37.28	37.94
Water Elevations 4/05/05 (ft msl)	40.03	38.87	39.47	39.58	39.58	39.15	40.13	40.20	39.36	39.85
Water Elevations 7/11/05 (ft msl)	41.95	42.15	39.78	39.87	38.93	42.14	39.13	40.42	N/A	43.12
Water Elevations 10/10/05 (ft msl)	40.62	40.48	37.46	37.70	36.61	39.72	37.86	38.37	N/A	38.69
Water Elevations 01/09/06 (ft msl)	38.60	38.25	37.12	46.45	37.34	38.25	39.43	38.49	N/A	39.82
Water Elevations 04/12/06 (ft msl)	41.69	40.74	45.65	47.63	47.19	41.92	47.75	44.87	N/A	41.74

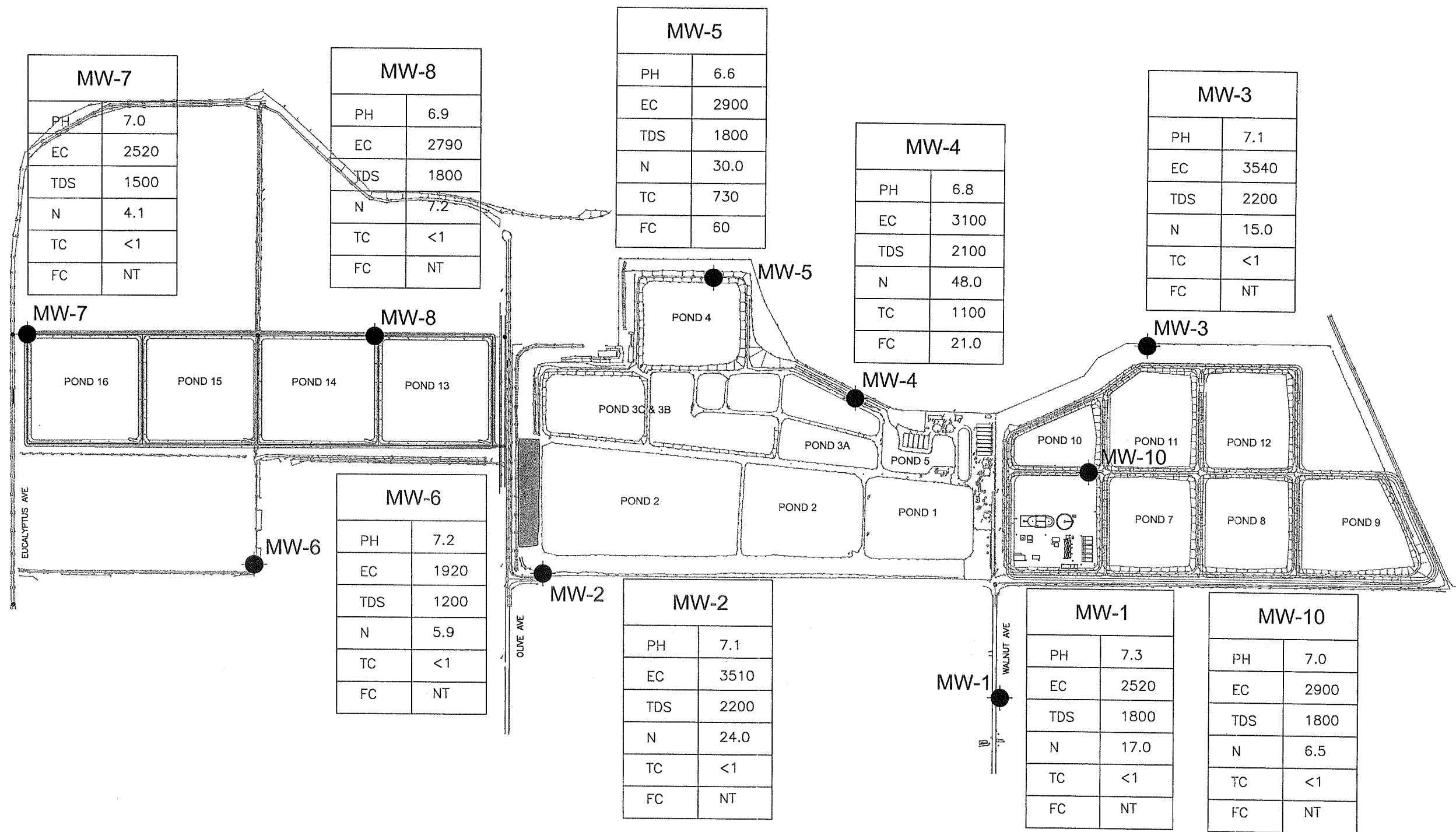
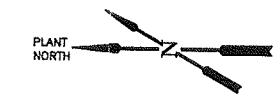
Table 3

April 2006 Analytical Results

	PH Method 150.1 (Std. Units)	Electric Conductivity Method 120.1 (umhos/cm)	Total Dissolved Solids Method 160.1 (mg/L)	Nitrate as Nitrogen Method 300.0 (mg/L)	Coliform Organisms	
					Total Coliform Method 9221B,C (MPN/100ml)	Fecal Coliform Method 9221E,C (MPN/100ml)
MW-1	7.3	2520	1800	17.0	<1	NT
MW-2	7.1	3510	2200	24.0	<1	NT
MW-3	7.1	3540	2200	15.0	<1	NT
MW-4	6.8	3100	2100	48.0	1100	21
MW-5	6.6	2900	1800	30.0	730	60
MW-6	7.2	1920	1200	5.9	<1	NT
MW-7	7.0	2520	1500	4.1	<1	NT
MW-8	6.9	2790	1800	7.2	<1	NT
MW-10	7.0	2900	1800	6.5	<1	NT

ND = Not Detected

NT = Not Tested



NOTE: ANALYTICAL RESULTS SHOWN FROM APRIL 12, 2006 SAMPLING.



CITY OF PATTERSON
WASTEWATER TREATMENT PLANT
14901 POPLAR AVENUE

FIGURE 1
MONITORING WELL LOCATION MAP
SCALE 1" = 600'

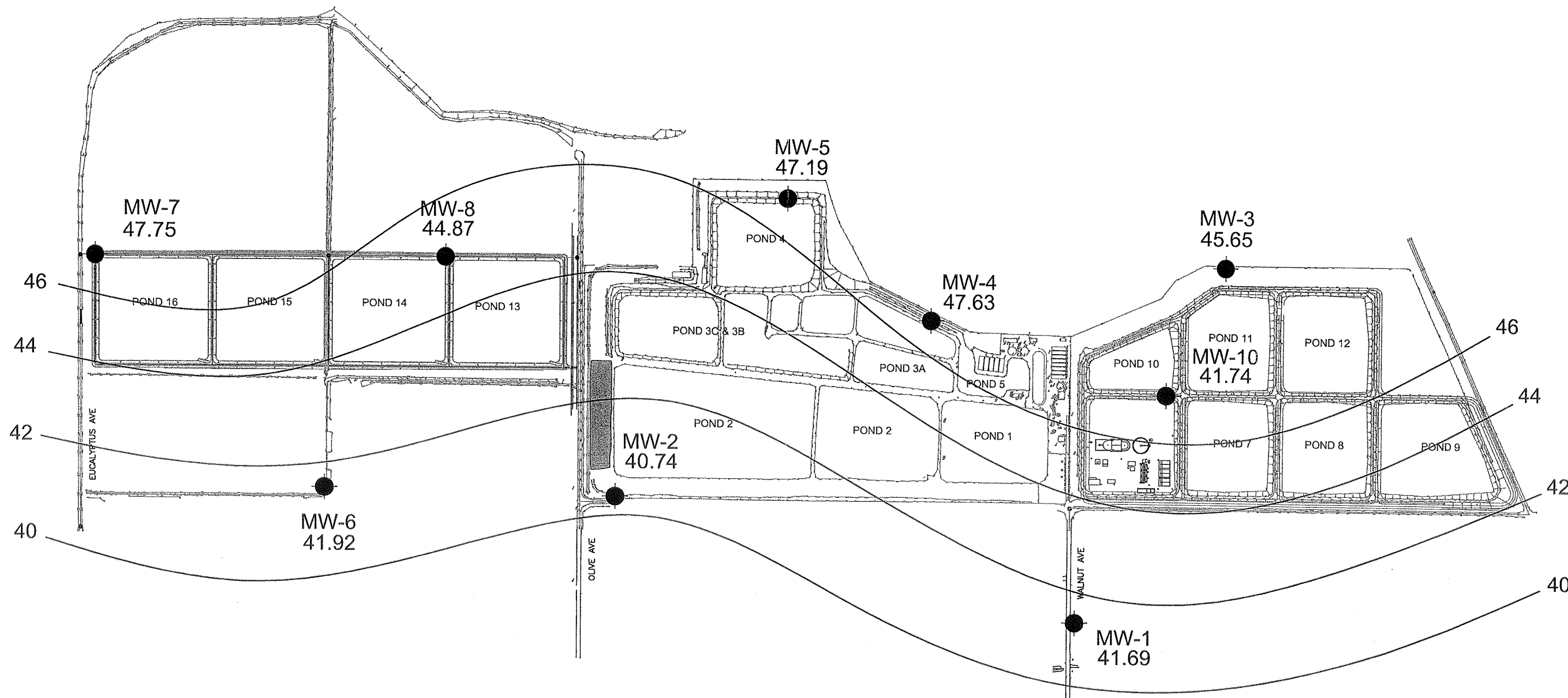
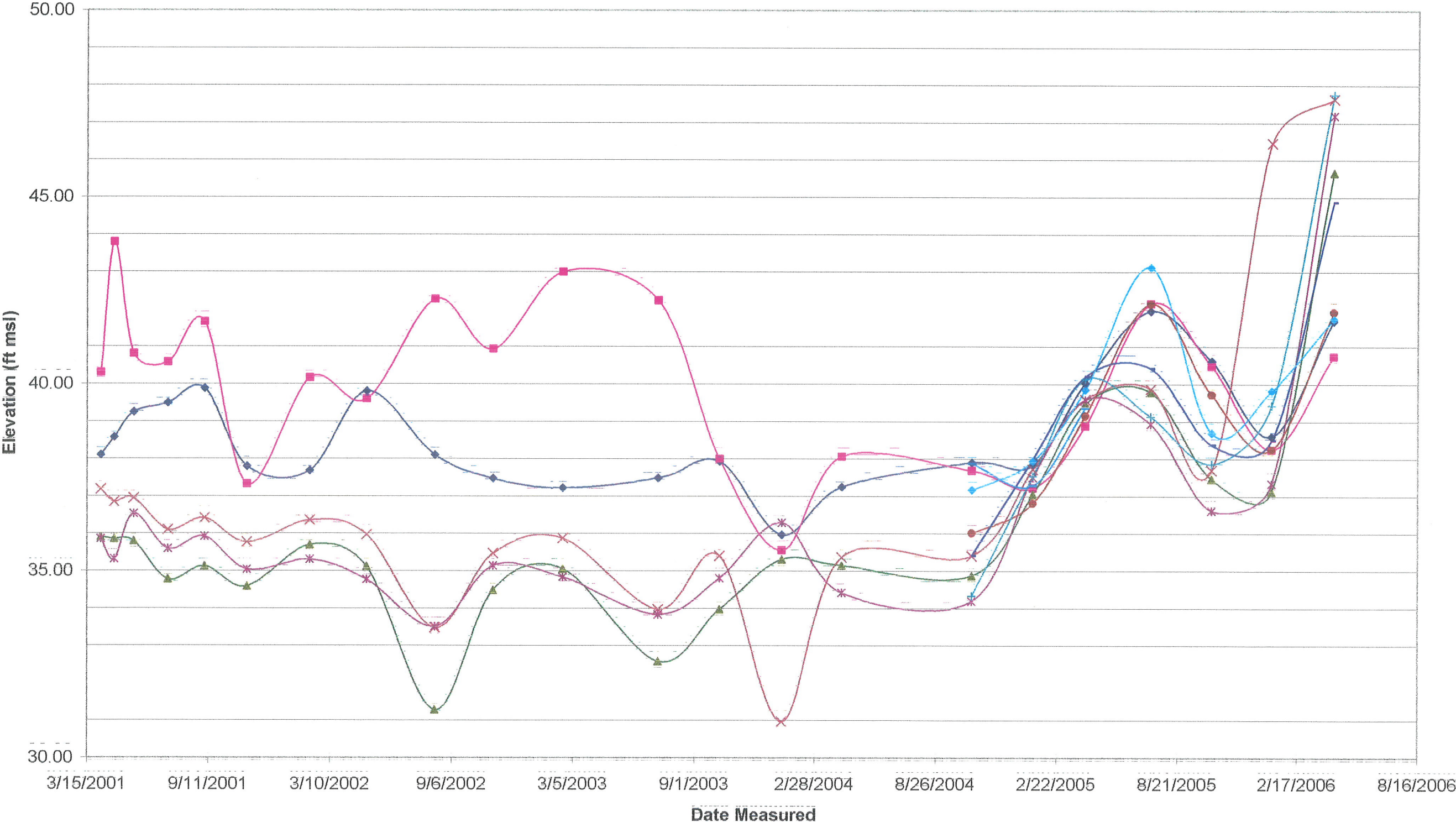


Figure 2
Groundwater Elevations in Patterson WWTP Monitoring Wells



APPENDIX A PURGE LOGS



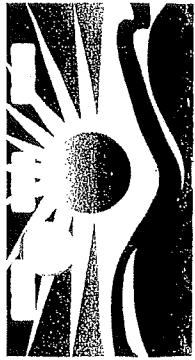
Measurement of Groundwater Levels

Project Name Patterson WWTP
Location Monitoring Wells
Equipment Type Solinst Water Level Meter
Equipment No. 1

Project No. 728
Recorded By Richard Chron/GeoAnalytical
Date 4/12/2006
Checked By _____
Date _____

Well Number	Time	Reference Point	Reference Elevation	Depth to Water	Water Elevation	Product Thickness	Product Elevation	Adjusted Water Elevation	Depth to Well Bottom	Notes (add below)
MW-1	9:31 AM	TOC	54.93	13.24	41.69	-	-	-	27.52	
MW-2	10:02 AM	TOC	59.68	18.94	40.74	-	-	-	31.28	
MW-3	11:48 AM	TOC	53.80	8.15	45.65	-	-	-	30.88	
MW-4	11:13 AM	TOC	58.58	10.95	47.63	-	-	-	31.64	
MW-5	10:48 AM	TOC	55.21	8.02	47.19	-	-	-	30.50	
MW-6	1:23 PM	TOC	55.23	13.31	41.92	-	-	-	30.00	
MW-7	12:51 PM	TOC	58.04	10.29	47.75	-	-	-	31.50	
MW-8	12:23 PM	TOC	59.33	14.46	44.87	-	-	-	29.50	
MW-10	12:03 PM	TOC	58.12	16.38	41.74	-	-	-	30.00	

Notes: _____



GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue
Modesto, CA 95351

Phone: (209) 572-0900
Fax: (209) 572-0916

Lab Report # SPD1201
Regulatory Yes No CC: Yes No
Regulator:

Phone: (209) 892-8886

Fax: (209) 892-8993

Original To: Joel Cockrell

C.C To: Bob Goodwin

CHAIN OF CUSTODY

EDF EDT

FIELD LOGS

Client: City of Patterson
Address: 33 S. DelPuerto
City Patterson CA Zip 95363

Project ID	Sampled By (Print Name) (Signature)	Date	Time	Sample type		Sample ID	Container		No. Of Containers	Remarks	Lab Use Only
				Grab	Comp		Type	Size			
	<u>Richard Chama</u> <i>Richard Chama</i>	4-12-02	9:31 AM			MW-1	P	150ml/L	2	X X X X	
			10:02 AM			MW-2					
			11:48 AM			MW-3					
			11:13 AM			MW-4					
			10:48 AM			MW-5					
			1:23 PM			MW-6					
			12:51 PM			MW-7					
			12:23 PM			MW-8					
			12:03 PM			MW-10					
			10:15 AM			Mitigation Well					

Remarks

Relinquished by (Signature)

Richard Chama
Richard Chama

Date

4-12-02

Time

Received by (Signature)

Joel Cockrell
Joel Cockrell

Date

4/12/02

Time

Received by (Signature)

Relinquished by (Signature)

Date

Time

Received by (Signature)

Date

Time

Preservative:

1 4°C 2 HCL 3 NaOH 4 Na₂S₂O₃ 5 HNO₃ 6 H₂O₄ 7 Other

DW Drinking Water WW Waste Water HWV Hazardous Waste (Water) S Soil/Solid

Bailers 55 Gallon Drums

Pump Truck

Time

Mileage

32 miles

Turnaround Time Standard Silver Rush Gold Rush Platinum Rush Other

Approved By:

Report # _____

Field Log / Groundwater Sampling Form

Date 4/12/0

Client City of Patterson

Well Name Mw-1

Project Name Quarterly Monitoring Wells

Well Type : Monitor Extraction Other _____

Consultant _____

Proj. Manager Richard Chrun

Sampler -Richard Chrun

WELL PURGING

Purge Method

- Bailer - Type _____
- Pump - Type 2"
- Other _____

Total Well Depth 27.50

Depth to Water 13.24

Water Column Length 14.26

Multiplier

Well Casing I.D. (in.)	Gal/Ft.
2.0	0.1632
4.0	0.6527
6.0	1.4686

Purge Volume

Well Casing Diameter

- 2 - inch
- 4 - inch
- other _____

Well Volume Purged

- 3 volumes
- 4 volumes
- other _____

$$\frac{14.26}{\text{Water column length}} \times \frac{0.6527}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{27.92}{\text{CALCULATED Purge Vol.}}$$

$$\frac{27.92}{\text{Purge Vol}} \div \frac{2.5}{\text{Purge Rate}} = \frac{11.16}{\text{TOTAL PURGE TIME}}$$

$$\frac{11.16}{\text{Total Purge Time}} \div \frac{3}{\text{\# Volumes}} = \frac{3.72}{\text{PURGE TIME/VOL.}}$$

Actual Values

Purge Time /Vol.	<u>4</u>
No. Volumes	<u>3</u>
Total Purge Time	<u>12</u>
Purge Rate	<u>2.5</u>
Actual Purge Vol.	<u>30</u>

GROUNDWATER PARAMETER MEASUREMENTS

	Time	Gallons	pH	Conductivity µmhos/cm	Temp.		ID	ORP	Color / Odor
					<input checked="" type="checkbox"/> deg C	<input type="checkbox"/> deg F			
art	9:19	-	-	-	-	-	-	-	-
Vol 1	9:23	10	6.35	2.59ms	19.5				turbid / none
Vol 2	9:27	20	6.85	2.70ms	20.3				"
Vol 3	9:31	30	7.03	2.75ms	20.4				"
Vol 4									
Vol 5									

Meter Type IQ Scientific

Purge Water Storage / Disposal

- Drummed onsite
- Onsite Treatment System
- Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method

- Bailer - Type _____
- Pump - Type _____
- Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
9:31	Mw-1	X				Pl Litre	1	4°C
						100ml sterile	1	4°C

COMMENTS/sampling: _____

Report # _____

Field Log / Groundwater Sampling Form

Date 4/12/06

Client City of Patterson

Well Name MW-2

Project Name Quarterly Monitoring Wells

Well Type: Monitor Extraction Other _____

Sultant _____

Proj. Manager Richard Chron

Sampler Richard Chron

WELL PURGING

Purge Method

- Bailer - Type _____
- Pump - Type 2"
- Other _____

Purge Volume

- Well Casing Diameter
- 2 - inch
 - 4 - inch
 - other _____
- Well Volume Purged
- 3 volumes
 - 4 volumes
 - other _____

Multiplier

Well Casing I.D. (in.)	Gal/Ft.
2.0	0.1632
4.0	0.6527
6.0	1.4686

Total Well Depth 31.40

Depth to Water 18.94

Water Column Length 12.46

12.46 X 0.6527 X 3 = 24.39
 Water column length Multiplier No. Volumes CALCULATED Purge Vol.

24.39 / 2.5 = 9.75
 Purge Vol Purge Rate TOTAL PURGE TIME

9.75 / 3 = 3.25
 Total Purge Time # Volumes PURGE TIME/VOL.

Actual Values	
Purge Time /Vol.	<u>4</u>
X	
No. Volumes	<u>3</u>
=	
Total Purge Time	<u>12</u>
X	
Purge Rate	<u>2.5</u>
=	
Actual Purge Vol.	<u>30</u>

GROUNDWATER/RAINWATER MEASUREMENTS

	Time	Gallons	pH	Conductivity µmhos/cm	Temp.		DO	CRP	Color / Odor
					<input checked="" type="checkbox"/> deg C	<input type="checkbox"/> deg F			
art	9:50	-	-	-	-	-	-	-	-
Vol 1	9:54	10	7.15	3.27ms	19.6	-	-	-	-
Vol 2	9:58	20	7.17	3.30ms	20.0	-	-	-	turbid / none
Vol 3	10:02	30	7.15	3.31ms	20.1	-	-	-	"
Vol 4									"
Vol 5									

Meter Type IQ Scientific

Purge Water Storage / Disposal

- Drummed onsite
- Onsite Treatment System
- Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method

- Bailer - Type _____
- Pump - Type _____
- Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
<u>10:02am</u>	<u>MW-2</u>	<u>X</u>				<u>Pl Litre</u>	<u>1</u>	<u>4°C</u>
						<u>100ml sterile</u>	<u>1</u>	<u>4°C</u>

COMMENTS/sampling: _____

Report # _____

Field Log / Groundwater Sampling Form

Date 4/12/0

Client City of Patterson

Well Name mw-3

Project Name Quarterly Monitoring Wells

Well Type: Monitor Extraction Other _____

Consultant _____

Proj. Manager Richard Chrun

Sampler Richard Chrun

WELL PURGING

Purge Method

- Bailer - Type _____
- Pump - Type 2"
- Other _____

Multiplier

Well Casing	
I.D. (in.)	Gal/Ft.
2.0	0.1632
4.0	0.6527
6.0	1.4686

Purge Volume

Well Casing Diameter

- 2 - inch
- 4 - inch
- other _____

Well Volume Purged

- 3 volumes
- 4 volumes
- other _____

Total Well Depth 31.00

Depth to Water 8.15

Water Column Length 22.85

$$\frac{22.85}{\text{Water column length}} \times \frac{0.6527}{\text{Multiplier}} \times \frac{3}{\text{No. Volumes}} = \frac{44.74}{\text{CALCULATED Purge Vol.}}$$

$$\frac{44.74}{\text{Purge Vol}} \div \frac{2.5}{\text{Purge Rate}} = \frac{17.89}{\text{TOTAL PURGE TIME}}$$

$$\frac{17.89}{\text{Total Purge Time}} \div \frac{3}{\text{\# Volumes}} = \frac{5.96}{\text{PURGE TIME/VOL.}}$$

Actual Values	
Purge Time /Vol.	<u>6</u>
No. Volumes	<u>3</u>
Total Purge Time	<u>18</u>
Purge Rate	<u>2.5</u>
Actual Purge Vol.	<u>45</u>

GROUNDWATER/PARAWATER MEASUREMENTS

	Time	Gallons	pH	Conductivity µmhos/cm	Temp.		ID	ORP	Color / Odor
					<input checked="" type="checkbox"/> deg C	<input type="checkbox"/> deg F			
Start	11:30	-	-	-	-	-	-	-	-
Vol 1	11:36	15	7.40	3.43ms	18.3				turbid/none
Vol 2	11:42	30	7.38	3.44ms	18.8				"
Vol 3	11:48	45	7.33	3.45ms	19.0				"
Vol 4									
Vol 5									

Meter Type IQ Scientific

Purge Water Storage / Disposal

- Drummed onsite
- Onsite Treatment System
- Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method

- Bailer - Type _____
- Pump - Type _____
- Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
11:48AM	MW-3	X				Pl Litre	1	4°C
						100ml sterile	1	4°C

COMMENTS/sampling: _____

Report # _____

Field Log / Groundwater Sampling Form

Date 4/12/06

Client City of Patterson

Well Name MW-4

Project Name Quarterly Monitoring Wells

Well Type: Monitor Extraction Other _____

Consultant _____

Proj. Manager Richard Chrum

Sampler Richard Chrum

WELL PURGING

Purge Method

- Bailer - Type _____
- Pump - Type 2"
- Other _____

Multiplier

Well Casing I.D. (in.)	Gal/Ft.
2.0	0.1632
4.0	0.6527
6.0	1.4686

Purge Volume

- Well Casing Diameter _____ Well Volume Purged _____
- 2 - inch
 - 4 - inch
 - other _____
- 3 volumes
 - 4 volumes
 - other _____

Total Well Depth 31.00
 Depth to Water 10.95
 Water Column Length 20.05

$20.05 \times 0.6527 \times 3 = 39.25$
 Water column length Multiplier No. Volumes CALCULATED Purge Vol.

$39.25 / 2.5 = 15.70$
 Purge Vol / Purge Rate TOTAL PURGE TIME

$15.70 / 3 = 5.23$
 Total Purge Time / # Volumes PURGE TIME/VOL.

Actual Values	
Purge Time / Vol.	<u>6</u>
No. Volumes	<u>3</u>
Total Purge Time	<u>18</u>
Purge Rate	<u>2.5</u>
Actual Purge Vol.	<u>45</u>

GROUNDWATER / PAWATER MEASUREMENTS

Time	Gallons	pH	Conductivity µmhos/cm	Temp. <input checked="" type="checkbox"/> deg C <input type="checkbox"/> deg F	ID	ORP	Color / Odor
Start 10:55	-	-	-	-	-	-	-
Vol 1 11:01	15	7.23	3.17ms	19.5			
Vol 2 11:07	30	7.40	3.21ms	18.9			clear / none
Vol 3 11:13	45	7.02	3.01ms	19.5			"
Vol 4							"
Vol 5							

Meter Type IQ Scientific

Purge Water Storage / Disposal

- Drummed onsite
- Onsite Treatment System
- Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method

- Bailer - Type _____
- Pump - Type _____
- Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
11:13am	MW-4	X				Pl Litre	1	4°C
						100ml sterile	1	4°C

COMMENTS/sampling: _____

Report # _____

Field Log / Groundwater Sampling Form

Date 4/12/10

Client City of Patterson

Well Name MW-5

Project Name Quarterly Monitoring Wells

Well Type: Monitor Extraction Other _____

Consultant _____

Proj. Manager Richard Chrum

Sampler Richard Chrum

WELL PURGING

Purge Method

- Bailer - Type _____
- Pump - Type 2"
- Other _____

Multiplier

Well Casing I.D. (in.)	Gal/Ft.
2.0	0.1632
4.0	0.6527
6.0	1.4686

Purge Volume

Well Casing Diameter

- 2 - inch
- 4 - inch
- other _____

Well Volume Purged

- 3 volumes
- 4 volumes
- other _____

Total Well Depth 31.00

Depth to Water 8.02

Water Column Length 22.98

$$\frac{22.98}{1} \times 0.6527 \times 3 = 44.99$$

Water column length Multiplier No. Volumes = CALCULATED Purge Vol.

$$\frac{44.99}{2.5} = 17.99$$

$$\frac{17.99}{3} = 5.99$$

Actual Values	
Purge Time /Vol.	<u>6</u>
No. Volumes	<u>3</u>
Total Purge Time	<u>18</u>
Purge Rate	<u>2.5</u>
Actual Purge Vol.	<u>45</u>

GROUNDWATER PARAMETERS MEASUREMENTS

	Time	Gallons	pH	Conductivity µmhos/cm	Temp. <input checked="" type="checkbox"/> deg C <input type="checkbox"/> deg F	ID	CRP	Color / Odor
rt	10:30	-	-	-	-	-	-	-
Vol 1	10:36	15	6.80	2.88 ms	17.5			
Vol 2	10:42	30	6.79	2.89 ms	18.1			turbid / none
Vol 3	10:48	45	6.85	2.87 ms	18.2			"
Vol 4								"
Vol 5								

Meter Type IQ Scientific

Purge Water Storage / Disposal

- Drummed onsite
- Onsite Treatment System
- Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method

- Bailer - Type _____
- Pump - Type _____
- Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
10:46am	MW-5	X				Pl Litre	1	4°C
						100ml sterile	1	4°C

COMMENTS/sampling: _____

Report # _____ Field Log / Groundwater Sampling Form Date 4/12/06
 Client City of Patterson Well Name MW-6
 Project Name Quarterly Monitoring Wells Well Type : Monitor Extraction Other _____
 Consultant _____
 Proj. Manager Richard Chrun Sampler Rich Chrun

WELL PURGING

Purge Method
 Bailer - Type _____
 Pump - Type 2"
 Other _____

Purge Volume
 Well Casing Diameter 2 - inch 4 - inch other _____
 Well Volume Purged 3 volumes 4 volumes other _____

Multiplier

I.D. (in.)	Gal/Ft.
2.0	0.1632
4.0	0.6527
6.0	1.4686

Total Well Depth 29.20
 Depth to Water 13.31
 Water Column Length 15.89

$15.89 \times 0.1632 \times 3 = 7.77$
 Water column length Multiplier No. Volumes CALCULATED Purge Vol.

$7.77 / 2.5 = 3.11$
 Purge Vol / Purge Rate TOTAL PURGE TIME

$3.11 / 3 = 1.03$
 Total Purge Time # Volumes PURGE TIME/VOL.

Actual Values

Purge Time / Vol. 1
 X
 No. Volumes 3
 =
 Total Purge Time 3
 X
 Purge Rate 2.5
 =
 Actual Purge Vol. 7.5

GROUNDWATER PARAMETER MEASUREMENTS

	Time	Gallons	pH	Conductivity µmhos/cm	Temp. <input type="checkbox"/> deg C <input type="checkbox"/> deg F	ID	ORP	Color / Odor
Start	1:20	-	-	-	-	-	-	-
Vol 1	1:21	2.5	7.89	1608 µs	18.6			turbid / none
Vol 2	1:22	5.0		1617 µs	18.4			"
Vol 3	1:23	7.5		1615 µs	18.4			"
Vol 4								
Vol 5								

Meter Type IQ Scientific Purge Water Storage / Disposal
 Drummed onsite
 Onsite Treatment System
 Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method
 Bailer - Type _____
 Pump - Type _____
 Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
	<u>MW-6</u>	<input checked="" type="checkbox"/>				Pl Litre	1	4°C
						100ml sterile	1	4°C

COMMENTS/sampling: _____

Report # _____

Field Log / Groundwater Sampling Form

Date 4/12/06

Client City of Patterson

Well Name MW-7

Project Name Quarterly Monitoring Wells

Well Type: Monitor Extraction Other _____

Consultant _____

Proj. Manager Richard Chrun

Sampler Rich Chrun

WELL PURGING

Purge Method

- Bailer - Type _____
 Pump - Type 2"
 Other _____

Purge Volume

- Well Casing Diameter _____ Well Volume Purged _____
 2 - inch 3 volumes
 4 - inch 4 volumes
 other _____ other _____

Multiplier	
Well Casing I.D. (in.)	Gal/Ft.
2.0	0.1632
4.0	0.6527
6.0	1.4686

Total Well Depth 31.00

Depth to Water 10.29

Water Column Length 20.71

$$\frac{20.71}{20.71} \times 0.1632 \times 3 = 10.13$$

Water column length Multiplier No. Volumes CALCULATED. Purge Vol.

$$\frac{10.13}{4.05} \times 2.5 = 4.05$$

Purge Vol / Purge Rate TOTAL PURGE TIME

$$\frac{4.05}{1.35} \times 3 = 1.35$$

Total Purge Time # Volumes PURGE TIME/VOL.

Actual Values	
Purge Time /Vol.	<u>2</u>
X	
No. Volumes	<u>3</u>
=	
Total Purge Time	<u>6</u>
X	
Purge Rate	<u>2.5</u>
=	
Actual Purge Vol.	<u>15</u>

GROUNDWATER PARAMETER MEASUREMENTS

	Time	Gallons	pH	Conductivity µmhos/cm	Temp.		ID	CRP	Color / Odor
					<input type="checkbox"/> deg C	<input type="checkbox"/> deg F			
Start	12:45	-	-	-	-	-	-	-	-
Vol 1	12:47	5	7.51	2.47ms	20.9				turbid / none
Vol 2	12:49	10	7.42	2.49ms	20.6				"
Vol 3	12:51	15	7.40	2.48ms	20.3				"
Vol 4									
Vol 5									

Meter Type IQ Scientific

Purge Water Storage / Disposal

- Drummed onsite
 Onsite Treatment System
 Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method

- Bailer - Type _____
 Pump - Type _____
 Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
12:51pm	MW-7	X				Pl Litre	1	4°C
						100ml sterile	1	4°C

COMMENTS/sampling: _____

Report # _____

Field Log / Groundwater Sampling Form

Date 4/12/06

Client City of Patterson

Well Name MW-8

Project Name Quarterly Monitoring Wells

Well Type: Monitor Extraction Other _____

Consultant _____

Proj. Manager Richard Chrun

Sampler Rich Chrun

WELL PURGING

Purge Method

- Bailer - Type _____
- Pump - Type 2"
- Other _____

Purge Volume

- Well Casing Diameter _____ Well Volume Purged _____
- 2 - inch
 - 4 - inch
 - other _____
 - 3 volumes
 - 4 volumes
 - other _____

Multiplier	
Well Casing I.D. (in.)	Gal/Ft.
2.0	0.1632
4.0	0.6527
6.0	1.4686

Total Well Depth 30.70

Depth to Water 14.46

Water Column Length 16.24

16.24 X 0.1632 X 3 = 7.95
 Water column length Multiplier No. Volumes CALCULATED Purge Vol.

7.95 / 2.5 = 3.18
 Purge Vol / Purge Rate TOTAL PURGE TIME

3.18 / 3 = 1.06
 Total Purge Time # Volumes PURGE TIME/VOL.

Actual Values	
Purge Time /Vol.	<u>1</u>
X	
No. Volumes	<u>3</u>
=	
Total Purge Time	<u>3</u>
X	
Purge Rate	<u>2.5</u>
=	
Actual Purge Vol.	<u>7.5</u>

GROUNDWATER PARAMETER MEASUREMENTS

	Time	Gallons	pH	Conductivity µmhos/cm	Temp.		ID	ORP	Color / Odor
					<input checked="" type="checkbox"/> deg C	<input type="checkbox"/> deg F			
Start	12:20	-	-	-	-	-	-	-	-
Vol 1	12:21	2.5	7.68	2.73ms	19.1				turbid/none
Vol 2	12:22	5.0	7.50	2.73ms	19.4				"
Vol 3	12:23	7.5	7.29	2.73ms	19.6				"
Vol 4									
Vol 5									

Meter Type IQ Scientific

Purge Water Storage / Disposal

- Drummed onsite
- Onsite Treatment System
- Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method

- Bailer - Type _____
- Pump - Type _____
- Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
12:23pm	MW-8	X				Pl Litre	1	4°C
						100ml sterile	1	4°C

COMMENTS/sampling: _____

Report # _____

Field Log / Groundwater Sampling Form

Date 4/12/06

Client City of Patterson

Well Name MW-10

Project Name Quarterly Monitoring Wells

Well Type: Monitor Extraction Other _____

Consultant _____

Proj. Manager Richard Chrun

Sampler Rich Chrun

WELL PURGING

Purge Method

- Bailer - Type _____
- Pump - Type 2"
- Other _____

Purge Volume

- Well Casing Diameter _____ Well Volume Purged _____
- 2 - inch 3 volumes
 - 4 - inch 4 volumes
 - other _____ other _____

Multiplier

Well Casing I.D. (in.)	Gal/Ft.
2.0	0.1632
4.0	0.6527
6.0	1.4686

Total Well Depth 30.00

Depth to Water 16.38

Water Column Length 13.62

13.62 X 0.1632 X 3 = 6.66
 Water column length Multiplier No. Volumes CALCULATED. Purge Vol.

6.66 / 2.5 = 2.6
 Purge Vol / Purge Rate TOTAL PURGE TIME

2.6 / 3 = 0.88
 Total Purge Time # Volumes PURGE TIME/VOL.

Actual Values

Purge Time / Vol.	<u>1</u>
X	
No. Volumes	<u>3</u>
=	
Total Purge Time	<u>3</u>
X	
Purge Rate	<u>2.5</u>
=	
Actual Purge Vol.	<u>1.5</u>

GROUNDWATER PARAMETER MEASUREMENTS

	Time	Gallons	pH	Conductivity µmhos/cm	Temp.		ID	ORP	Color / Odor
					<input checked="" type="checkbox"/> deg C	<input type="checkbox"/> deg F			
Start	12:00	-	-	-	-	-	-	-	-
Vol 1	12:01	2.5	7.85	2.81 ms	18.3				turbid/none
Vol 2	12:02	5.0	7.43	2.80 ms	18.3				"
Vol 3	12:03	7.5	7.42	2.83 ms	18.6				"
Vol 4									
Vol 5									

Meter Type IQ Scientific

Purge Water Storage / Disposal

- Drummed onsite
- Onsite Treatment System
- Other _____

COMMENTS/purge: _____

WELL SAMPLING

Sampling Method

- Bailer - Type _____
- Pump - Type _____
- Other _____

Time	Sample ID	Org	Dup	Split	Blank	Container Type	Number of Containers	Preservative
12:03 pm	MW-10	X				Pl Litre	1	4°C
						100ml sterile	1	4°C

COMMENTS/sampling: _____

APPENDIX B
LABORATORY ANALYTICAL REPORT

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report # S6D1201
 City of Patterson
 S. Del Puerto
 Patterson, CA 95363

Project: Quarterly Monitoring Wells

Date: 04/17/06

Date Rec'd: 04/12/06

PO#

CERTIFICATE OF ANALYSIS

Microbiology of Drinking Water

Date Sampled: 04/12/06

Sampler:

Sample ID	Time	Lab ID	RL	Method	Analyte	Result	Units	Notes	Analyzed	Batch #
MW-1	0:00	S6D1201-01	1.0	SM9223	Total Coliform	<1	MPN/mL		04/13/06	S001309
MW-2	0:00	S6D1201-02	1.0	SM9223	Total Coliform	<1	MPN/mL		04/13/06	S001309
MW-3	0:00	S6D1201-03	1.0	SM9223	Total Coliform	<1	MPN/mL		04/13/06	S001309
MW-4	0:00	S6D1201-04	1.0	SM9223	Fecal Coliform	21	MPN/mL		04/13/06	S001309
			1.0	SM9223	Total Coliform	1100				
MW-5	0:00	S6D1201-05	1.0	SM9223	Fecal Coliform	60	MPN/mL		04/13/06	S001309
			1.0	SM9223	Total Coliform	730				
MW-6	0:00	S6D1201-06	1.0	SM9223	Total Coliform	<1	MPN/mL		04/13/06	S001309
MW-7	0:00	S6D1201-07	1.0	SM9223	Total Coliform	<1	MPN/mL		04/13/06	S001309
MW-8	0:00	S6D1201-08	1.0	SM9223	Total Coliform	<1	MPN/mL		04/13/06	S001309
MW-9	0:00	S6D1201-09	1.0	SM9223	Total Coliform	<1	MPN/mL		04/13/06	S001309
MW-10	0:00	S6D1201-10	1.0	SM9223	Total Coliform	<1	MPN/mL		04/13/06	S001309
Regulation Well	0:00	S6D1201-10	1.0	SM9223	Total Coliform	<1	MPN/mL		04/13/06	S001309

RECEIVED
 APR 28 2006
 BY: *Chm*

Kanti Gandhi

Kanti Gandhi
 Chemist

Donna Keller

Donna Keller
 Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report # S6D1201

City of Patterson
S. Del Puerto
Patterson, CA 95363

Project: Quarterly Monitoring Wells

Date: 04/17/06

Date Rec'd: 04/12/06

PO#

Microbiology of Drinking Water - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Source Result	Reporting Limit	Units	RPD	RPD Limit	Notes
Batch S001309 - NO PREP		Prepared & Analyzed: 04/13/06					
Blank (S001309-BS1)							
Total Coliform	<1		1.0	MPN/mL			
Blank Dup. (S001309-BSD1)							
Total Coliform	<1		1.0	MPN/mL	0	20	

GeoAnalytical Laboratories, Inc.

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Report # S6D1201

Project: Quarterly Monitoring Wells

Date: 04/17/06

City of Patterson

3 S. Del Puerto

PO#

Date Rec'd: 04/12/06

Patterson, CA 95363

CERTIFICATE OF ANALYSIS

Sample ID: MW-1

Lab ID: S6D1201-01

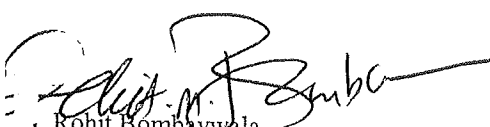
Date Sampled: 04/12/06


Time: 0:00

Inorganic Chemistry

Sampler: Richard Chrun

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
0.0	0.25	Nitrate as N	17	mg/L		04/13/06	S001272
120.1	1.0	Specific Conductance (EC)	2520	umhos/cm		04/13/06	S001281
0.1	NA	pH	7.3	Std. Units		04/12/06	S001307
0.1	10	Total Dissolved Solids (TDS)	1800	mg/L		04/13/06	S001292


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report # S6D1201
City of Patterson
3 S. Del Puerto
Patterson, CA 95363

Project: Quarterly Monitoring Wells

PO#

Date: 04/17/06
Date Rec'd: 04/12/06

CERTIFICATE OF ANALYSIS

Sample ID: MW-2

Lab ID: S6D1201-02

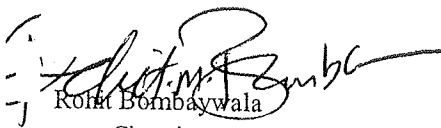
Inorganic Chemistry


Date Sampled: 04/12/06

Time: 0:00

Sampler: Richard Chrun

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
2 0.0	0.25	Nitrate as N	24	mg/L		04/13/06	S001272
120.1	1.0	Specific Conductance (EC)	3510	umhos/cm		04/13/06	S001281
1 0.1	NA	pH	7.1	Std. Units		04/12/06	S001307
1 0.1	10	Total Dissolved Solids (TDS)	2200	mg/L		04/13/06	S001292


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

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Form # S6D1201

City of Patterson

3 S. Del Puerto

Patterson, CA 95363

Project: Quarterly Monitoring Wells

PO#

Date: 04/17/06

Date Rec'd: 04/12/06

CERTIFICATE OF ANALYSIS

Sample ID: MW-3

Lab ID: S6D1201-03


Date Sampled: 04/12/06

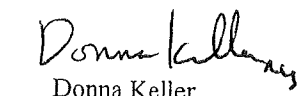
Time: 0:00

Inorganic Chemistry

Sampler: Richard Chrun

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
0.0	0.25	Nitrate as N	15	mg/L		04/13/06	S001272
120.1	1.0	Specific Conductance (EC)	3540	umhos/cm		04/13/06	S001281
0.1	NA	pH	7.1	Std. Units		04/12/06	S001307
0.1	10	Total Dissolved Solids (TDS)	2200	mg/L		04/13/06	S001292


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

Certification # 2585

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report # S6D1201
City of Patterson
3 S. Del Puerto
Patterson, CA 95363

Project: Quarterly Monitoring Wells

Date: 04/17/06

Date Rec'd: 04/12/06

PO#

CERTIFICATE OF ANALYSIS

Sample ID: MW-4

Lab ID: S6D1201-04


Date Sampled: 04/12/06

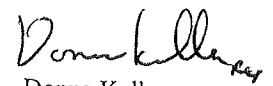
Time: 0:00

Inorganic Chemistry

Sampler: Richard Chrun

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
0.0	0.25	Nitrate as N	48	mg/L		04/13/06	S001272
120.1	1.0	Specific Conductance (EC)	3100	umhos/cm		04/13/06	S001281
0.1	NA	pH	6.8	Std. Units		04/12/06	S001307
0.1	10	Total Dissolved Solids (TDS)	2100	mg/L		04/13/06	S001292


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report # S6D1201
City of Patterson
100 S. Del Puerto
Patterson, CA 95363

Project: Quarterly Monitoring Wells
PO#

Date: 04/17/06
Date Rec'd: 04/12/06

CERTIFICATE OF ANALYSIS

Sample ID: MW-5

Lab ID: S6D1201-05

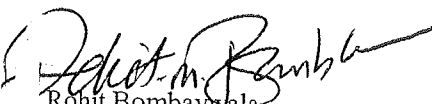
Inorganic Chemistry


Date Sampled: 04/12/06

Time: 0:00

Sampler: Richard Chrun

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
3500	0.25	Nitrate as N	30	mg/L		04/13/06	S001272
120.1	1.0	Specific Conductance (EC)	2900	umhos/cm		04/13/06	S001281
1501	NA	pH	6.6	Std. Units		04/12/06	S001307
1001	10	Total Dissolved Solids (TDS)	1800	mg/L		04/13/06	S001292


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

W # S6D1201
City of Patterson
3 S. Del Puerto
Patterson, CA 95363

Project: Quarterly Monitoring Wells

Date: 04/17/06

Date Rec'd: 04/12/06

PO#

CERTIFICATE OF ANALYSIS

Sample ID: MW-6

Date Sampled: 04/12/06


Lab ID: S6D1201-06


Time: 0:00

Inorganic Chemistry

Sampler: Richard Chrun

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
10.0	0.25	Nitrate as N	5.9	mg/L		04/13/06	S001272
120.1	1.0	Specific Conductance (EC)	1920	umhos/cm		04/13/06	S001281
150.1	NA	pH	7.2	Std. Units		04/12/06	S001307
20.1	10	Total Dissolved Solids (TDS)	1200	mg/L		04/13/06	S001292


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report # S6D1201
City of Patterson
13 S. Del Puerto
Patterson, CA 95363

Project: Quarterly Monitoring Wells

Date: 04/17/06

Date Rec'd: 04/12/06

PO#

CERTIFICATE OF ANALYSIS

Sample ID: MW-7

Date Sampled: 04/12/06

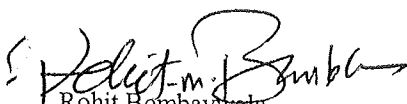
Lab ID: S6D1201-07


Time: 0:00

Inorganic Chemistry

Sampler: Richard Chrun

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
10.0	0.25	Nitrate as N	4.1	mg/L		04/13/06	S001272
120.1	1.0	Specific Conductance (EC)	2520	umhos/cm		04/13/06	S001281
170.1	NA	pH	7.0	Std. Units		04/12/06	S001307
10.1	10	Total Dissolved Solids (TDS)	1500	mg/L		04/13/06	S001292


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

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Form # S6D1201

City of Patterson

100 S. Del Puerto

Patterson, CA 95363

Project: Quarterly Monitoring Wells

PO#

Date: 04/17/06

Date Rec'd: 04/12/06

CERTIFICATE OF ANALYSIS

Sample ID: MW-8

Lab ID: S6D1201-08


Inorganic Chemistry


Date Sampled: 04/12/06

Time: 0:00

Sampler: Richard Chrun

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
10.0	0.25	Nitrate as N	7.2	mg/L		04/13/06	S001272
120.1	1.0	Specific Conductance (EC)	2790	umhos/cm		04/13/06	S001281
170.1	NA	pH	6.9	Std. Units		04/12/06	S001307
10.1	10	Total Dissolved Solids (TDS)	1800	mg/L		04/13/06	S001292


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report # S6D1201

Project: Quarterly Monitoring Wells

Date: 04/17/06

City of Patterson

Date Rec'd: 04/12/06

3 S. Del Puerto

PO#

Patterson, CA 95363

CERTIFICATE OF ANALYSIS

Sample ID: MW-10

Date Sampled: 04/12/06


Lab ID: S6D1201-09

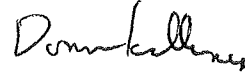
Time: 0:00

Inorganic Chemistry

Sampler: Richard Chrun

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
10.0	0.25	Nitrate as N	6.5	mg/L		04/13/06	S001272
120.1	1.0	Specific Conductance (EC)	2900	umhos/cm		04/13/06	S001281
170.1	NA	pH	7.0	Std. Units		04/12/06	S001307
20.1	10	Total Dissolved Solids (TDS)	1800	mg/L		04/13/06	S001292


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report # S6D1201
City of Patterson
3 S. Del Puerto
Patterson, CA 95363

Project: Quarterly Monitoring Wells

Date: 04/17/06
Date Rec'd: 04/12/06

PO#

CERTIFICATE OF ANALYSIS

Sample ID: Mitigation Well

Lab ID: S6D1201-10

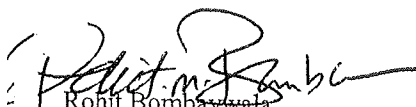
Date Sampled: 04/12/06

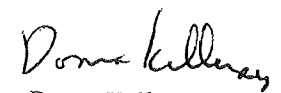
Time: 0:00

Inorganic Chemistry

Sampler: Richard Chrun

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
10.0	400	Nitrate as N	4700	ug/L		04/13/06	S001271
120.1	1.0	Specific Conductance (EC)	2600	umhos/cm		04/13/06	S001281
170.1	NA	pH	7.2	Std. Units		04/12/06	S001307
10.1	10	Total Dissolved Solids (TDS)	1500	mg/L		04/13/06	S001292


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report # S6D1201

Project: Quarterly Monitoring Wells

Date: 04/17/06

City of Patterson

Date Rec'd: 04/12/06

3 S. Del Puerto

PO#

Patterson, CA 95363

CERTIFICATE OF ANALYSIS

Sample ID: Mitigation Well

Date Sampled: 04/12/06

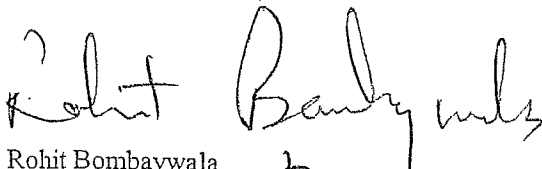
Well ID: S6D1201-10


Time: 10:15

Inorganic Chemistry

Sampler: Richard Chrun

Method	RL	Analyte	Result	Units	Notes	Analyzed	Batch #
100.0	0.25	Nitrate as N	4.7	mg/L		04/13/06	S001271
20.1	1.0	Specific Conductance (EC)	2600	umhos/cm		04/13/06	S001281
5	NA	pH	7.2	Std. Units		04/12/06	S001307
6	10	Total Dissolved Solids (TDS)	1500	mg/L		04/13/06	S001292


Rohit Bombaywala
Chemist


Donna Keller
Laboratory Director

GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351 Phone (209) 572-0900 Fax (209) 572-0916

Report # S6D1201
 City of Patterson
 3 S. Del Puerto
 Patterson, CA 95363

Project: Quarterly Monitoring Wells

Date: 04/17/06
 Date Rec'd: 04/12/06

PO#

Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch S001271 - NO PREP										
Prepared & Analyzed: 04/13/06										
Blank (S001271-BLK1)										
Nitrate as N	ND	400	ug/L							
LCS (S001271-BS1)										
Nitrate as N	4600	400	ug/L	5000		92	85-115			
IS Dup (S001271-BSD1)										
Nitrate as N	4600	400	ug/L	5000		92	85-115	0	20	
Batch S001272 - NO PREP										
Prepared & Analyzed: 04/13/06										
Blank (S001272-BLK1)										
Nitrate as N	ND	0.25	mg/L							
IS (S001272-BS1)										
Nitrate as N	4.6	0.25	mg/L	5.00		92	85-115			
IS Dup (S001272-BSD1)										
Nitrate as N	4.6	0.25	mg/L	5.00		92	85-115	0	20	
Batch S001281 - NO PREP										
Prepared & Analyzed: 04/13/06										
Blank (S001281-BLK1)										
Specific Conductance (EC)	ND	1.0	umhos/cm							
Duplicate (S001281-DUP1)										
Source: S6D1201-01										
Specific Conductance (EC)	2750	1.0	umhos/cm		2520			9	10	

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Inorganic Chemistry - Quality Control GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch S001292 - NO PREP										
Prepared & Analyzed: 04/13/06										
Blank (S001292-BLK1)										
Total Dissolved Solids (TDS)	ND	10	mg/L							
Duplicate (S001292-DUP1)										
Source: S6D1201-01										
Total Dissolved Solids (TDS)	1740	10	mg/L		1770			2	7	
Batch S001307 - NO PREP										
Prepared & Analyzed: 04/12/06										
Duplicate (S001307-DUP1)										
Source: S6D1201-01										
	7.3		Std. Units		7.3			0	20	