

PIERS Environmental Services, Inc.
JUL 01 2005
Alameda County

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Report of May 2005 Groundwater Sampling
at
2926-2942 San Pablo Avenue
Oakland, CA

Performed For:

Mr. James Chung
San Pablo Auto Body
2942 San Pablo Avenue
Oakland, CA

Prepared By:

PIERS Environmental Services, Inc.
1330 S. Bascom Avenue, Suite F
San Jose, CA 95128

May 2005

Project No. 04256

PIERS



**Environmental
Services, Inc.**

1330 S. Bascom Ave., Suite F
San Jose, CA 95128

Tel. (408) 559-1248 Fax (408) 559-1224

June 3, 2005

Mr. Robert W. Schultz, R. G.
Alameda County Environmental Health Services
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: Report of May 2005 Groundwater Sampling
2942 San Pablo Avenue, Oakland, CA

Dear Mr. Schultz:

On May 12, 2005, groundwater samples were obtained from monitoring wells MW-1 through MW-3 at the above-referenced site by North State Environmental of South San Francisco, CA. The wells were also monitored. A Vicinity Map showing the location of the site is included as Figure 1.

The groundwater samples were collected as follows: prior to sampling, the wells were checked for depth to water, and for the presence of free product and sheen. No free product or sheen was noted in any of the wells. Monitoring data collected this quarter is summarized on Table 1 and Figure 2.

Each well was bailed until the volume of water withdrawn was equal to at least three casing volumes. To assure that a representative groundwater sample was collected, periodic measurements of the temperature, pH and specific conductance were made. The sample was collected only when the temperature, pH, and/or specific conductance reached relatively constant values.

Water samples were collected using new, disposable bailers. An effort was made to minimize exposure of the samples to air. The samples were decanted into clean VOA vials and/or one-liter amber bottles, as appropriate, which were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to a state-certified laboratory. Sample containers were obtained directly from the analytical laboratory. Sampling equipment was cleaned before and after its use at each sampling location. Thermometers, pH electrodes, and conductivity probes were also cleaned before and after each sampling event.

Subsequent to collection, the samples were immediately stored on ice in an appropriate ice chest. Samples were transported under Chain-of-Custody procedures to North State Environmental Laboratory in South San Francisco, CA. Excess water resulting from the sampling and cleaning procedures was collected and contained in pre-labeled 55-gallon drums on-site pending receipt of laboratory analyses.

Laboratory Analyses

All samples analyzed were accompanied by properly executed Chain of Custody documentation. The samples were analyzed for volatile organic compounds (VOC) by EPA Method 8260, and for Total Petroleum Hydrocarbons (TPH) as gasoline by EPA method 8015- Modified, and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8020. The analytical results of the groundwater samples collected on May 12, 2005 are tabulated in Tables 2A and 2B. Copies of the laboratory analyses and the Chain of Custody documentation are attached to this report.

Hydrology

On May 12, 2005, the measured depth to ground water in the three monitoring wells and piezometer B-11 varied between 10.45 feet and 11.85 feet below the tops of the well casings. The elevation of groundwater in the wells increased between 0.05 feet and 0.11 feet since the last monitoring event on February 11, 2005. The monitoring data is summarized in Table 1 and on Figure 2. On this event, the direction of groundwater flow at the Property and vicinity was to the west, consistent with the previous events, at a hydraulic gradient of 0.035 feet per foot.

Discussion

The primary Contaminant of Concern at the Property in groundwater is Trichlorethene (TCE). The concentration of TCE in MW-1, at the source area, has increased from the last event (19,000 ppb vs. 7,130 ppb). The concentration of TCE in down-gradient well MW-2 is also increased from the last event (45.6 ppb vs. 12.5 ppb). The concentration of TCE in well MW-3 was less than the last event (16.2 ppb vs. 20.6 ppb). The concentration of TCE is summarized in Figure 3 and Table 2A. Groundwater analytical results for TPH as gasoline and BTEX is summarized on Table 2B.

It is PIERS' understanding that Alameda County Environmental Health Services will issue a letter indicating the next requirements for the subject Property.

PIERS recommends continuation of the quarterly groundwater sampling program at the Property.

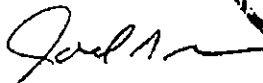
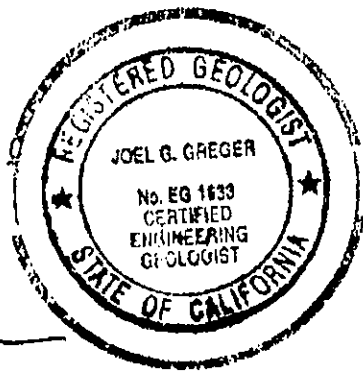
Limitations

The observations and conclusions presented in this report are professional opinions based on the scope of work outlined herein. This report was prepared in accordance with generally accepted standards of environmental geological practice in California at the time this investigation was performed. The opinions presented apply to site conditions existing at the time of our study and cannot apply to site conditions or changes of which we are not aware or have not had the opportunity to evaluate. This investigation was conducted solely to evaluate environmental conditions beneath the property at specific locations. Subsurface conditions may vary away from the data points available. Additional work, including subsurface investigation, can reduce the inherent uncertainties associated with this type of investigation. It must be recognized that any conclusions drawn from these data rely on the integrity of the information available at the time of investigation and that a full and complete determination of environmental contamination and risks cannot be made.

If you have any questions regarding this report, please do not hesitate to contact our office.

Sincerely,

PIERS Environmental Services, Inc.



Joel G. Greger
Senior Project Manager
CEG # EG1633, REA # 07079

Kay Pannell
Chief Operations Officer
REP #5800, REA-II #20236

Attachments
Tables 1, 2A and 2B
Figures 1, 2 and 3
Laboratory Analytical Data
Well Purging/Sampling Data

ATTACHMENTS

TABLES 1, 2A AND 2B

TABLE 1
GROUNDWATER MONITORING DATA
2942 San Pablo Avenue, Oakland

Well No.	Date	Groundwater Elevation	Top of casing Elevation	Depth to Water	Well Depth	Product Thickness	Sheen	Water purged (gallons)
MW1	7/27/2004	13.17	26.32	13.15				0
	7/30/2004	13.12		13.20	36.55	0	No	5
	11/15/2004	13.46		12.86	36.60	0	No	1.5
	2/11/2005	15.76		10.56	36.60	0	No	1.6
	5/12/2005	15.87		10.45	36.60	0	No	1.6
MW2	7/27/2004	9.93	24.60	14.67				0
	7/30/2004	10.30		14.30	33.10	0	No	4
	11/15/2004	10.85		13.75	33.11	0	No	1.2
	2/11/2005	12.66		11.94	33.11	0	No	1.3
	5/12/2005	12.75		11.85	33.11	0	No	1.3
MW3	7/27/2004	11.36	25.69	14.33				0
	7/30/2004	11.50		14.40	36.00	0	No	5
	11/15/2004	12.06		13.63	36.05	0	No	1.5
	2/11/2005	13.79		11.90	36.05	0	No	1.4
	5/12/2005	13.84		11.85	36.05	0	No	1.5

TABLE 2A
GROUNDWATER ANALYTICAL RESULTS - MONITORING WELLS
2942 San Pablo Avenue, Oakland

Sample/ Depth (feet)	Date Sampled	TCE (ppb)	cis-1,2- DCE	Acetone (ppb)	Chloroform (ppb)
MW1	7/30/2004	5,670	2	<10	2.1
MW1*	11/15/2004	5,610	6	<10	2.1
MW1**	2/11/2005	7,130	5	<10	2.6
MW1	5/12/2005	19,000	5	<10	5.3
MW2	7/30/2004	219	<1	51	3
MW2	11/15/2004	15	<1	<10	<0.5
MW2	2/11/2005	12.5	<1	<10	<0.5
MW2	5/12/2005	45.6	<1	<10	<0.5
MW3	7/30/2004	6.6	<1	<10	<0.5
MW3	11/15/2004	11.6	<1	<10	<0.5
MW3	2/11/2005	20.6	<1	<10	<0.5
MW3	5/12/2005	16.2	<1	<10	<0.5
ESL		5.0/360	6.0/590	700/1500	5.0/350

EXPLANATION:

ppb = parts per billion

DCE = Dichloroethene

TCE = Trichloroethene

ESL = Environmental Screening Level, groundwater is/is not a resource (Tables A + C/ B + D).

* Vinyl Chloride and trans-1,2-DCE were also detected at concentrations of 1.7 and 1 ppb, respectively.

** Vinyl Chloride was detected at a concentration of 0.7 ppb.

ANALYTICAL METHODS:

EPA Method 8260.

TABLE 2B
GROUNDWATER ANALYTICAL RESULTS - HYDROCARBONS - MONITORING WELLS
2942 San Pablo Avenue, Oakland

Sample/ Depth (feet)	Date Sampled	TPH-g (ppb)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylenes (ppb)	MTBE (ppb)
MW1	7/30/2004	2,280	<0.5	<0.5	<0.5	<1	<0.5
	11/15/2004	2,200	3.7/2.9	<0.5	<0.5	<1	<0.5
	2/11/2005	5,270	0.7/0.8	<0.5	<0.5	1.4	<0.5
	5/12/2005	7,610	<0.5	0.5/1.2	<0.5	<1	<0.5
MW2	7/30/2004	144	<0.5	<0.5	<0.5	<1	<0.5
	11/15/2004	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	2/11/2005	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	5/12/2005	<50	<0.5	<0.5	<0.5	<1	<0.5
MW3	7/30/2004	63	<0.5	<0.5	<0.5	<1	<0.5*
	11/15/2004	<50	<0.5	<0.5	<0.5	<1	<0.5
	2/11/2005	<50	<0.5	<0.5	<0.5	<1	<0.5
	5/12/2005	<50	<0.5	<0.5	<0.5	<1	<0.5
ESL		100/500	1.0/46	30/290	40/130	13/13	5.0/1,800

EXPLANATION:

ppb = parts per billion

Analytical results are by EPA Methods 8015 and/or 8260.

TPHg = Total Petroleum Hydrocarbons as gasoline.

ESL = Environmental Screening Level, groundwater is/is not a resource (Tables A + C/ B + D).

* Di - isopropyl ether (DIPE) was detected at a concentration of 1.6 ppb.

FIGURES 1, 2 AND 3

**IDENTIFIED HAZARDOUS MATERIALS SITES
RADIUS REPORT
Site Vicinity Map**

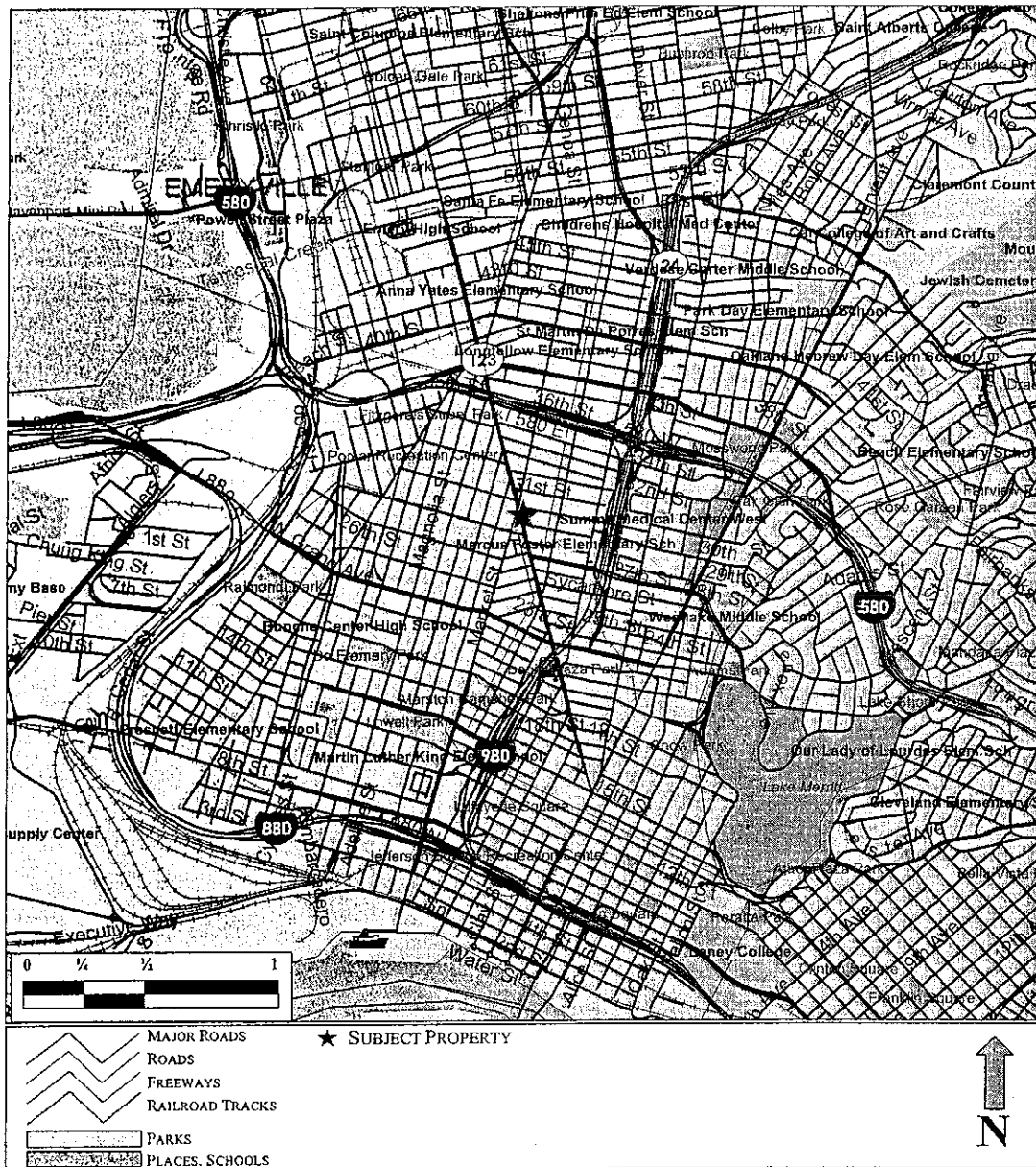


FIGURE 1
PROPERTY VICINITY MAP

2942 SAN PABLO AVENUE
OAKLAND, CALIFORNIA

NOT TO SCALE
JUNE 2005

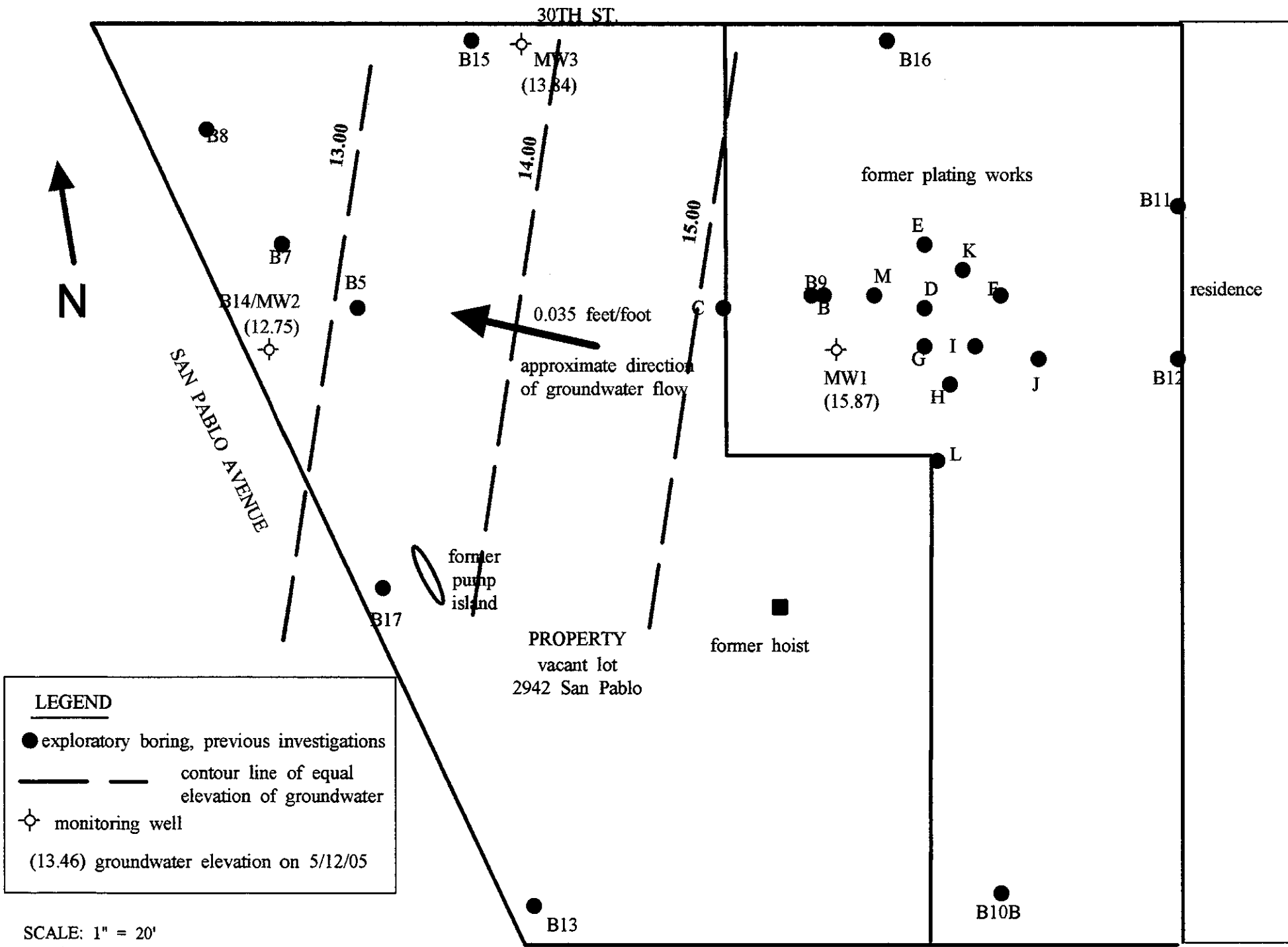
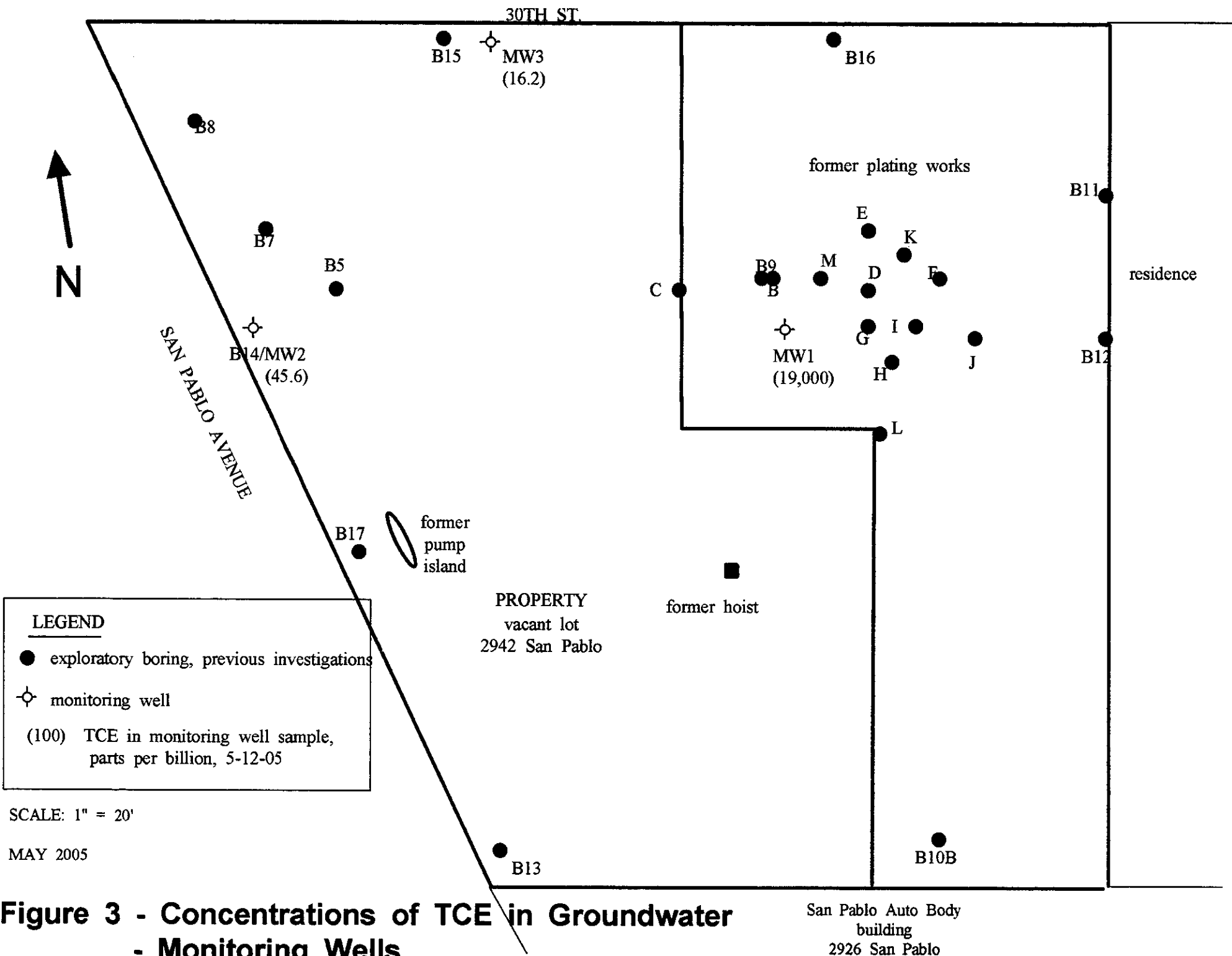


Figure 2 - Potentiometric Surface on May 12, 2005



LABORATORY ANALYTICAL DATA



North State Labs

CA ELAP # 1753

815 Dubuque Avenue • South San Francisco, CA 94080 • (650) 266-4563 • FAX (650) 266-4560

SAMPLE RECEIPT CHECKLIST

Client Name: <u>PIERS</u>	Ref/Job No: <u>05-0716</u>	Date: <u>5-12-05</u>
Checked By: <u>EK</u>		
Matrix:	Soil:	Water: <input checked="" type="checkbox"/> Other:

If Received via Shipment (If dropped off in person this section does not apply):

Carrier Name: _____			
Shipping Container/Cooler In Good Condition?	<input type="checkbox"/> Y	<input type="checkbox"/> N	
Custody Seals Intact on Shipping Container?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
No. of coolers:	Temperature of Cooler:	In Range?:	<input type="checkbox"/> Y <input type="checkbox"/> N
Custody Seals intact on sample containers?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Chain of Custody present?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Chain of Custody Signatures & Date/Time correct?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Chain of custody agrees with sample labels?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Samples in proper containers?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Sample containers intact?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Sufficient sample volume for indicated tests?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
All Samples received within holding times?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
Temperature Blank present? Record Temp if present.	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N	Temp: _____
For water samples- VOAS have zero headspace?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
Samples received in bottles with proper preservative?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> N/A
pH adjusted - Preservative used:	HNO3: ___ HCl: ___	H2SO4: ___ NaOH: ___	ZnOAc: ___
	Supplier: _____	Lot: _____	
For water samples for the analysis of total recoverable metals not digested - pH <2?			See attached sheet

Corrective Action Record:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____



Case Narrative

Client: PIERS Environmental

Project: SAN PABLO AUTO BODY/2942 SAN PABLO AVE

Lab No: 05-0716

Date Received: 05/12/05

Date reported: 05/23/05

Three water samples were received under chain of custody control for the analysis of gasoline range hydrocarbons by method 8015B, BTEX and MTBE by method 8021B, and VOC's with fuel oxygenates by GC/MS method 8260B. The MS/MSDs did not meet acceptance criteria for the analyses of 8015B, 8021B, and 8260B (spiked non-client sample); the batches were accepted by and reported with the LCS/LCSD results.

Erin Cunniffe
Laboratory Director



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0716
Client: PIERS Environmental
Project: SAN PABLO AUTO BODY/2942 SAN PABLO AVE

Date Reported: 05/23/2005

Gasoline, BTEX and MTBE by Methods 8015B/8021B

Table with 6 columns: Analyte, Method, Result, Unit, Date Sampled, Date Analyzed. Contains three sample entries (MW-1, MW-2, MW-3) with various analytes like Benzene, Ethylbenzene, Gasoline Range Organics, etc.

*Due to single peak in gasoline range; **Conf. by GC/MS 8260B



C E R T I F I C A T E O F A N A L Y S I S

Lab Number: 05-0716
Client: PIERS Environmental
Project: SAN PABLO AUTO BODY/2942 SAN PABLO AVE

Date Reported: 05/23/2005

Gasoline, BTEX and MTBE by Methods 8015B/8021B

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 05-0716-03	Client ID: MW-3			05/12/2005	W
Toluene	SW8020F	ND<0.5	UG/L		05/17/2005
Xylenes	SW8020F	ND<1.0	UG/L		05/17/2005



C E R T I F I C A T E O F A N A L Y S I S

Quality Control/Quality Assurance

Lab Number: 05-0716
Client: PIERS Environmental
Project: SAN PABLO AUTO BODY/2942 SAN PABLO AVE

Date Reported: 05/23/2005
Gasoline, BTEX and MTBE by Methods 8015B/8021B

Table with 7 columns: Analyte, Method, Reporting Unit Limit, Blank, MS/MSD Recovery, RPD. Rows include Gasoline Range Organics, Benzene, Toluene, Ethylbenzene, Xylenes, Methyl-tert-butyl ether, and SUR-a,a,a-Trifluorotoluene.

ELAP Certificate NO:1753

Reviewed and Approved

Erin Cunniffe, Laboratory Director



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0716
Client : PIERS Environmental
Project : SAN PABLO AUTO BODY/2942 SAN PABLO AVE

Date Sampled : 05/12/2005
Date Analyzed: 05/18/2005
Date Reported: 05/23/2005

Fuel Oxygenates by Method 8260B

Table with 4 columns: Laboratory Number, Client ID, Matrix, Analyte. Rows list various compounds like Methyl-tert-butyl ether, Ethyl tert-butyl ether, etc., with corresponding values for three samples (05-0716-01, 05-0716-02, 05-0716-03).

Comments:



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0716

Date Sampled : 05/12/2005

Client : PIERS Environmental

Date Analyzed: 05/18/2005

Project : SAN PABLO AUTO BODY/2942 SAN PABLO

Date Reported: 05/23/2005

Fuel Oxygenates by Method 8260B
Quality Control/Quality Assurance Summary

Laboratory Number	05-0716	MS/MSD	RPD	Recovery	RPD
Client ID	Blank	Recovery		Limit	Limit
Matrix	W	W			
Analyte	Results	%Recoveries			
	UG/L				
Ethanol	ND<50				
Methyl-tert-butyl ether	ND<0.5				
Di-isopropyl ether (DIPE)	ND<0.5				
tert-butyl Alcohol	ND<10				
Ethyl tert-butyl ether	ND<1				
tert-Amyl methyl ether	ND<1				
1,1-Dichloroethene	ND<0.5	73/71	3	70-130	30
1,2-Dichloroethane	ND<1				
Benzene	ND<0.5	93/94	1	70-130	30
1,2-Dibromoethane	ND<0.5				
Trichloroethene	ND<0.5	111/113	2	70-130	30
Toluene	ND<0.5	101/102	1	70-130	30
Chlorobenzene	ND<1	100/105	5	70-130	30
SUR-Dibromofluoromethane	106	106/103	3	85-115	30
SUR-Toluene-d8	105	109/109	0	85-115	30
SUR-4-Bromofluorobenzene	106	107/108	1	85-115	30
SUR-1,2-Dichloroethane-d4	96	100/101	1	85-115	30

Reviewed and Approved

Erin Cunniffe
Laboratory Director



CERTIFICATE OF ANALYSIS

Job Number: 05-0716
Client : PIERS Environmental
Project : SAN PABLO AUTO BODY/2942 SAN PABLO AVE

Date Sampled : 05/12/2005
Date Analyzed: 05/18/2005
Date Reported: 05/23/2005

Volatile Organics by GC/MS Method 8260B

Table with 4 columns: Analyte, 05-0716-01, 05-0716-02, 05-0716-03. Lists various chemical compounds and their concentrations across three samples.

Comments :



CERTIFICATE OF ANALYSIS

Job Number: 05-0716
Client : PIERS Environmental
Project : SAN PABLO AUTO BODY/2942 SAN PABLO AVE

Date Sampled : 05/12/2005
Date Analyzed: 05/18/2005
Date Reported: 05/23/2005

Volatile Organics by GC/MS Method 8260B

Table with 4 columns: Analyte, 05-0716-01, 05-0716-02, 05-0716-03. Lists various chemical compounds and their detection levels (e.g., ND<1, ND<0.5, 101, 107, 108).

Comments:



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0716 Date Sampled: 05/12/2005
Client: PIERS Environmental Date Analyzed: 05/18/2005
Project: SAN PABLO AUTO BODY/2942 SAN PABLO Date Reported: 05/23/2005

Volatile Organics by GC/MS Method 8260B
Quality Control/Quality Assurance Summary

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various chemical analytes and their corresponding results and recovery percentages.



C E R T I F I C A T E O F A N A L Y S I S

Job Number: 05-0716

Date Sampled : 05/12/2005

Client : PIERS Environmental

Date Analyzed: 05/18/2005

Project : SAN PABLO AUTO BODY/2942 SAN PABLO

Date Reported: 05/23/2005

Volatile Organics by GC/MS Method 8260B
Quality Control/Quality Assurance Summary

Table with columns: Laboratory Number, Client ID, Matrix, Analyte, Results, %Recoveries, RPD, Recovery Limit, RPD Limit. Lists various analytes like Bromoform, Isopropylbenzene, etc., with their respective results and recovery percentages.

Reviewed and Approved

Erin Cunniffe
Laboratory Director

WELL PURGING/SAMPLING DATA

NORTH STATE LABS

FLUID-LEVEL MONITORING DATA

Project No: _____ Date: 5-12-05

Project/Site Location: 2942 SAN PABLO AVE. OAKLAND, CA

Technician: SC Method: ELECTRONIC

Well	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Total Well Depth (feet)	Comments
MW-1	10.45			36.60	1125 H ₂ O IN WELL BOX
MW-2	11.85			33.11	1105
MW-3	11.85			36.05	1115

Measurements referenced to top of well casing. NORTH

NORTH STATE LABS

WELL PURGING/SAMPLING DATA

Project Number: _____ Date: 5-12-05
 Project / Site Location: 2942 SAN PABLO AVE OAKLAND, CA
SAN PABLO AUTO BODY

Sampler/Technician: _____

Casing Diameter (inches)	<u>0.75</u>	<u>2</u>	<u>4</u>	<u>6</u>
Casing Volume (gallons)	<u>0.02</u>	<u>0.2</u>	<u>0.7</u>	<u>1.52</u>

Well No. MW-1

A. Total Well Depth	<u>36.60</u>
B. Depth To Water	<u>10.45</u>
C. Water Height (A-B)	<u>26.15</u>
D. Well Casing Diameter	<u>0.75</u>
E. Casing Volume	<u>0.02</u>
F. Single Case Volume (CxEx)	<u>0.523</u>
G. Case Volume(s)(CxEx)	<u>1.57</u>
H. 80% Recharge Level	<u>10.97</u>

Well No. MW-2

A. Total Well Depth	<u>33.11</u>
B. Depth To Water	<u>11.85</u>
C. Water Height (A-B)	<u>21.26</u>
D. Well Casing Diameter	<u>0.75</u>
E. Casing Volume	<u>0.02</u>
F. Single Case Volume (CxEx)	<u>0.425</u>
G. Case Volume(s)(CxEx)	<u>1.28</u>
H. 80% Recharge Level	<u>12.27</u>

Purge Event

Start Time: 1425
 Finish Time: 1450

Post Purge Measurement

Depth to Water: 15.24
 Time Measured: 1452

Recharge/Sample Time

Depth to Water: 10.90
 Time Measured: 1510

Purge Event

Start Time: 1210
 Finish Time: 1235

Post Purge Measurement

Depth to Water: 17.18
 Time Measured: 1236

Recharge/Sample Time

Depth to Water: 12.16
 Time Measured: 1250

Well Fluid Parameters:

Gals.	<u>0</u>	<u>0.5</u>	<u>1.0</u>	<u>1.57</u>
pH	<u>6.88</u>	<u>7.06</u>	<u>7.14</u>	<u>7.16</u>
T (°C)	<u>20.1</u>	<u>19.3</u>	<u>19.5</u>	<u>19.4</u>
Cond.	<u>725</u>	<u>723</u>	<u>714</u>	<u>716</u>
DO mg/L				
DO %				
Turbidity				
ORP				

Well Fluid Parameters:

Gals.	<u>0</u>	<u>0.5</u>	<u>1.0</u>	<u>1.3</u>
pH	<u>6.62</u>	<u>6.75</u>	<u>6.73</u>	<u>6.75</u>
T (°C)	<u>20.6</u>	<u>19.8</u>	<u>20.2</u>	<u>20.0</u>
Cond.	<u>710</u>	<u>656</u>	<u>639</u>	<u>646</u>
DO mg/L				
DO %				
Turbidity				
ORP				

Summary Data:

Total Gallons Purged: 1.57
 Purge device: DISP. BAILER
 Sampling Device: DISP. BAILER
 Sample Collection Time: 1510
 Sample Appearance/Odor: CLEAR/N/A

Summary Data:

Total Gallons Purged: 1.3
 Purge device: DISP. BAILER
 Sampling Device: DISP. BAILER
 Sample Collection Time: 1251
 Sample Appearance/Odor: CLEAR/N/A

NORTH STATE LABS

WELL PURGING/SAMPLING DATA

Project Number: _____ Date: 5-12-05
 Project / Site Location: 2942 SAN PABLO AVE., OAKLAND CA

Sampler/Technician: _____

Casing Diameter (inches)	0.75	2	4	6
Casing Volume (gallons)	0.02	0.2	0.7	1.52

Well No. _____

A. Total Well Depth	
B. Depth To Water	
C. Water Height (A-B)	
D. Well Casing Diameter	
E. Casing Volume	
F. Single Case Volume (CxEx)	
G. Case Volume(s)(CxEx)	
H. 80% Recharge Level	

Well No. MW-3

A. Total Well Depth	36.05
B. Depth To Water	11.85
C. Water Height (A-B)	24.2
D. Well Casing Diameter	0.75
E. Casing Volume	0.02
F. Single Case Volume (CxEx)	0.484
G. Case Volume(s)(CxEx)	1.45
H. 80% Recharge Level	11.99

Purge Event

Start Time: _____

Finish Time: _____

Post Purge Measurement

Depth to Water: _____

Time Measured: _____

Recharge/Sample Time

Depth to Water: _____

Time Measured: _____

Purge Event

Start Time: 1310

Finish Time: 1345

Post Purge Measurement

Depth to Water: 16.97

Time Measured: 1349

Recharge/Sample Time

Depth to Water: 11.91

Time Measured: 14.10

Well Fluid Parameters:

Gals.				
pH				
T (°C)				
Cond.				
DO mg/L				
DO %				
Turbidity				
ORP				

Well Fluid Parameters:

Gals.	0	0.5	1.0	1.5
pH	6.85	7.09	7.15	7.14
T (°C)	20.4	18.8	19.5	19.5
Cond.	725	710	701	6.95
DO mg/L				
DO %				
Turbidity				
ORP				

Summary Data:

Total Gallons Purged: _____

Purge device: _____

Sampling Device: _____

Sample Collection Time: _____

Sample Appearance/Odor: _____

Summary Data:

Total Gallons Purged: 1.5

Purge device: DISP. BAILER

Sampling Device: DISP. BAILER

Sample Collection Time: 1412

Sample Appearance/Odor: CLEAR / N/A