THE SAN JOAQUIN COMPANY INC.
1120 HOLLYWOOD AVENUE, SUITE 3, OAKLAND, CALIFORNIA 94602

Alameda County Health Care Services Agency
Environmental Protection Division
1131 Harbor Way Parkway, Suite 250
Alameda,
California
94502-6577

Date August 31, 1999

Our Reference: 9401 114

Attn Mr Larry Seto

SUBJECT: **Quarterly Status Report – 208 Jackson Street, Oakland, California**

Dear Mr. Seto:

At the request of the property owner, SNK Development Inc , we transmit herewith a copy of our *Quarterly Status and Groundwater-quality Monitoring Report June 1, 1999 to August 31, 1999 – 208 Jackson Street, Oakland, California.*

Please note that, as you requested, the samples recovered from the monitoring wells on July 25, 1999 were analyzed for MTBE in addition to diesel, gasoline and the BTEX compounds

If you have any questions, please call me at (510) 336-1772

Sincerely,

D J Watkins
President
The San Joaquin Company Inc.

Enc Quarterly Status Report

THE SAN JOAQUIN COMPANY INC.
1120 HOLLYWOOD AVENUE, SUITE 3, OAKLAND, CALIFORNIA 94602

QUARTERLY STATUS AND GROUNDWATER-QUALITY MONITORING REPORT

JUNE 1, 1999 to AUGUST 31, 1999

208 Jackson Street, Oakland, California

Prepared for
SNK Development Inc

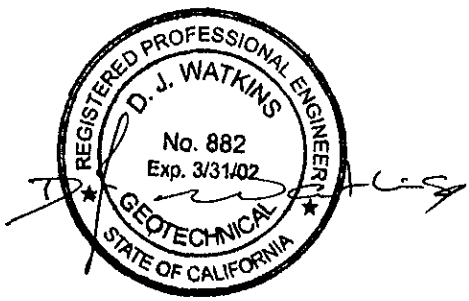
August 1999

Project No 9401.114

TELEPHONE. OAKLAND, CALIFORNIA (510) 336-9118 TRACY, CALIFORNIA (209) 832-2910

PROFESSIONAL CERTIFICATION AND LIMITATIONS

This report was prepared under the direction of the engineer whose seal and signature appear below. The work was performed in accordance with generally accepted standards of engineering practice based on information available to us at the time of its preparation and within the limits of the scope of work directed by the client. No other representation, expressed or implied, and no warranty or guarantee is included or intended as to professional opinions, recommendations, or field or laboratory data provided.



D J Watkins, Ph D , P E
Geotechnical Engineer
The San Joaquin Company Inc

INTRODUCTION

This status report is for the property at 208 Jackson Street, Oakland, California. It covers the period from June 1, 1998 to August 31, 1999.

SITE LOCATION

The subject property is situated at 208 Jackson Street, Oakland, California. That location is shown on Figure 1. Figure 2 is a site plan showing the location of groundwater-quality monitoring wells that have been installed on the site.

BACKGROUND

Between 1946 and 1947, a steel-framed building, approximately 2,450 ft^2 in plan area, was constructed at the corner of Second and Madison Streets for the Marine Steel Company (**Marine Steel**). Associated with this building was a storage yard that extended northeast along Madison Street. At that time, the Marine Steel site had the address 205 Madison Street.

Subsequent to its initial occupancy by Marine Steel, the site at 205 Madison Street was occupied by a variety of businesses that included used machinery and scrap metal dealers. At some time prior to 1963, the metal building and property at that address was used by a truck-rental business. At an unknown date, presumably when the truck rental business occupied the site, four underground storage tanks were installed on that property These included a 10,000-gallon and an 8,000-gallon gasoline tank and a 10,000-gallon and a 2,000-gallon diesel tank

In January 1963, ownership of the site at 205 Madison Street passed to the John Morell Company (**Morell**), which incorporated it into its meatpacking facility at 208 Jackson Street. In 1970, Morell sold all of its property at 208 Jackson Street, but the site continued in use as a meatpacking facility with a succession of owners, the last of which was the East Bay Packing Company (**East Bay Packing**).

In May 1990, all four tanks were removed from the property by East Bay Packing. Testing at the bottom of the tank pits showed that soil and groundwater beneath the tanks was affected by components of fuel hydrocarbons.

In November 1990, the 208 Jackson Street property was purchased by Mr Tzu Ming Chen and Mrs. Chih Chin Lin Chen (**the Chens**), the owners of Wo Lee Food, which used the property for production, packaging and distribution of Asian specialty foods. In the period between 1990 and 1998, under the direction and oversight of the California Regional Water Quality Control Board – San Francisco Bay Region (**RWQCB**) and the Alameda County Health Care Services Agency, Environmental Health Services Division (**ACHCSA**), the Chens retained a series of consultants to characterize the site and monitor groundwater quality in the affected area.

In September 1998, SNK Development Inc (**SNK**) purchased the 208 Jackson Street

property from the Chens and immediately retained The San Joaquin Company Inc. (**SJC**) to develop a remediation plan that would permit redevelopment of the property SNK also contracted with Dietz Irrigation of Tracy, California, to implement the remediation.

The remediation was conducted in compliance with a work plan approved by the ACHCSA. (SJC, 1998. ACHCSA, 1998b, 1998c.) The remediation work involved excavation of soil from beneath the affected part of the site, treatment of the soil on site, and restoration of the remedial excavation.

On-site remediation work was completed in November 1998 (Dietz Irrigation, 1998) and, with the concurrence of the ACHCSA, the site was released for redevelopment on December 3, 1998 (ACHCSA, 1998a)

All previously existing groundwater-quality monitoring wells present on the site were closed when the hydrocarbon-affected soil was remediated. As called for by the remediation work plan, two new off-site wells - Nos. MW-6 and MW-7 - were installed on December 30,1998 at the locations shown on Figure 2. A first round of groundwater-quality monitoring using these wells was completed on January 9, 1999 (The San Joaquin Company Inc 1999a) and second round followed on April 25, 1999 (The San Joaquin Company Inc 1999b).

ACTIVITY DURING THE REPORTING PERIOD

Following is a summary of activity related to the subject site for the period June 1, 1999 to August 31, 1999

Groundwater-quality Monitoring

The third round of groundwater sampling using well MW-6 and MW-7 was conducted on July 25, 1999.

To initiate the sampling program, the depth to groundwater in both of the monitoring wells (MW-6 and MW-7) was measured using a conductivity probe The water table elevations were computed relative to mean sea level (MSL). These measurements and the computed groundwater-table elevations are recorded in Table 1. In the period between April 25 and July 25, 1999, the groundwater table had fallen approximately two inches.

After the depth to groundwater in each well had been measured, they were purged by pumping a minimum of five well volumes of water from each. The purge water was decanted into 5-gallon pails, which, when full, were emptied onto a non-draining, paved area of the site, from which it evaporated

After both wells had been purged, the depth to groundwater in each was measured again, prior to sampling, to ensure that a representative sample would be obtained In both cases, the water levels in the wells had fully recovered between the time of purging and the time of sampling

Groundwater samples were then recovered from the wells using the dedicated PVC bailers with which they had been equipped when they were constructed. Water was decanted from the bailers using a valved decanting spigot to fill completely two sets of clean, laboratory-supplied glassware The sample vials and jars were then tightly closed, labeled for identification, entered into chain-of-custody control, and packed on chemical ice for transportation. One set was transported to Chromalab Inc.'s **(Chromalab)** laboratory in Pleasanton, California for analysis. The second set was transported to the Curtis & Tompkins; Ltd. **(Curtis & Tompkins)** laboratory in Berkeley, California for an independent quality-assurance analysis of the groundwater recovered from each of the wells.

Sample Analyses

Following receipt at the laboratories, each set of groundwater samples was analyzed for the following suite of analytes.

Analyte	**Method of Analysis**
Total Petroleum Hydrocarbons (quantified as Diesel)	EPA Method 8015
Total Petroleum Hydrocarbons	EPA Method 8015M (quantified as Gasoline)
Benzene	EPA Method 8015M
Toluene	EPA Method 8015M
Ethyl Benzene	EPA Method 8015M
Total Xylene Polymers	EPA Method 8015M
Methyl-tertiary Butyl Ether (MTBE)	EPA Method 8260

Note: Analyses for MTBE, not previously included in the standard suite of analytes for this project, were included in response to a request made by the ACHCSA on June 30, 1999

Results of Groundwater Analyses

The results of the primary analyses, performed by Chromalab, of samples of groundwater recovered from monitoring well MW-6 and MW-7 on July 25, 1999 are presented in Table 2, which also includes the results from the earlier rounds of groundwater sampling.

As can be seen in Table 2 and as was reported in the Quarterly Report for the period March 1, 1999 to May 31, 1999 (The San Joaquin Company Inc. 1999b), diesel, gasoline and all of the BTEX compounds were detected in the sample recovered from well MW-6 on April 26, 1999, although none - with the exception of a trace of xylene polymers - had been detected in water previously recovered from that well. At that time, as was discussed in the Quarterly Report, no satisfactory explanation for that unexpected event could be found. For that reason,

extreme care was taken during the sampling round conducted on July 25, 1999 to ensure that all procedures for sample recovery, avoidance of cross-contamination, equipment decontamination, proper sample labeling and transport were followed. Also, as noted above, a separate set of samples was submitted to Curtis & Tompkins' laboratory in Berkeley, California where they were independently analyzed as a quality-assurance measure. The results of Curtis & Tompkins analyses are shown on the lower part of Table 2

With respect to the BTEX compounds, the concentrations obtained for these analytes by Chromalab and Curtis & Tompkins are in good agreement for samples recovered from both MW-6 and MW-7 on July 25, 1999. Both laboratories reported that MTBE in MW-7 was undetectable. There was a greater variance between Chromalab's result of 1,500 µg/L and Curtis & Tompkins's 2,7000 µg/L for the concentration of MTBE in MW-6. However, this variance is not excessive when considered in the context of the accuracy and reproducibility achievable by the analytical test procedures. Thus, the results are judged to be acceptable.

With respect to the concentrations of total petroleum hydrocarbons in the July 25, 1999 samples, there is an apparent disagreement between the results obtained by Chromalab and those obtained by Curtis & Tompkins For example, Chromalab detected 7,200 µg/L of total petroleum hydrocarbons quantified as gasoline in the sample from MW-6, while Curtis & Tompkins detected none. This apparent discrepancy is caused by the different procedures that the laboratories elect when reporting results that do not fully match their standard spectrograms for specific fuels such as gasoline or diesel Curtis & Tompkins reports its gasoline results based upon the concentrations of hydrocarbon molecules in the range C-7 to C-12, and if none are present in the sample, reports the result as non-detectable for gasoline without regard to any out-of-range hydrocarbon molecules that may be present. Chromalab, under the same circumstances, reports the hydrocarbon present as a concentration "quantified as" gasoline, but notes the fact that the hydrocarbon reported does not match its laboratory standard for gasoline. These different reporting procedures account for the differences in the results for total petroleum hydrocarbons for the samples recovered on July 25, 1999 returned by the separate laboratories The laboratories' notes with respect to their reporting procedures are included in the laboratory certificates of analysis compiled in Appendix A.

For the reasons explained above, the quality assurance analyses performed by Curtis & Tompkins demonstrate the validity of the primary analyses performed by Chromalab.

Chromalab's analyses of the sample of groundwater recovered from MW-6 on July 25, 1999 detected the presence of 89 µg/L of total petroleum hydrocarbons quantified as diesel, 1,400 µg/L of total petroleum hydrocarbons quantified as gasoline, and no detectable concentrations of any of the BTEX compounds. Analysis for MTBE had not been performed prior to the July 25, 1999 sampling when it was detected at a concentration of 1,500 µg/L. It is notable that there were no detectable concentrations of the BTEX compounds in the sample. This result is compatible with the result obtained for that well on January 9, 1999. This shows that the elevated concentrations of BTEX compounds that were detected in the sample recovered on April 25, 1999 have been eliminated Similarly, although not entirely eliminated, the concentrations of diesel and gasoline in the sample recovered on July 25, 1999 have fallen markedly from the concentrations present on April 25, 1999, which had

unexpectedly appeared following the January 9, 1999 sampling round when there had been no detectable concentrations of either diesel or gasoline in the sample recovered from MW-6.

Chromalab's analyses of the sample of groundwater recovered from MW-7 on July 25, 1999, as shown in Table 2, detected the presence of 1,200 µg/L of total petroleum hydrocarbons quantified as diesel, 9,100 µg/L of total petroleum hydrocarbons quantified as gasoline, benzene at 2,000 µg/L, toluene at 830 µg/L, ethyl-benzene at 610 µg/L and total xylene polymers at 2,000µg/L No MTBE was detected in the sample. These results exhibit a trend opposite to those from MW-6 when compared to previous results from samples recovered from the same well. For MW-7, there was a significant increase in the concentrations of gasoline and BTEX compounds compared to those in the sample recovered on April 25, 1999, which had generally declined when compared to those detected in the first sample obtained from that well on January 9, 1999

Evaluation of Groundwater Analyses

There are several data trends that can be observed in the results obtained from analyses of samples from wells MW-6 and MW-7 in the period from January 9, 1999 to July 25, 1999

The fact that no MTBE was detected in the samples recovered from MW-7 on July 25, 1999 (the first sampling round where analysis for this oxygenate was performed) while 1,500 µg/L were detected in the sample recovered on the same date from MW-6 indicates that groundwater in MW-6 is affected by a different mixture of hydrocarbon fuels than the groundwater in MW-7.

In addition to the difference related to the presence and absence of MTBE, there are other notable differences in the matrix of data obtained from wells MW-6 and MW-7. Water from MW-6, which was essentially free of petroleum hydrocarbons on January 9, 1999, was unexpectedly found to be affected by significant concentrations of those compounds on April 25, 1999, but, by July 25, 1999, there had been a major decline in the concentrations and none of the BTEX compounds were present as had been essentially the case on January 9, 1999. This data trend strongly suggests that some new mixture of analytes was introduced into MW-6 between January 9, 1999 and April 25, 1999, but it was being removed from the water in the well by natural processes such as dispersion or dilution and by the purging of the well at each sampling round.

Data from MW-7 shows an unexpected increase in the concentrations of components of fuel hydrocarbons in the period between April 25, 1999 and July 25, 1999, although, earlier in the year, the trend of the data was declining towards lower concentrations of the analytes of concern This data trend suggests that some material may have been introduced into the well in the period between April 25, 1999 and July 25, 1999.

It is interesting to set the data trends described above in the context of re-paving work that occurred on Second Street over the first few months of 1999. Following is a chronological listing of conditions observed in and around the wells during this period.

Sampling Date	Conditions Observed
January 9, 1999	No unusual conditions Paving undisturbed
April 25, 1999	Second Street has been scarified and the surficial bituminous macadam surfacing removed. Some stained areas in the vicinity of MW-6. MW-7 well cover buried under pile of sand to gravel-sized bituminous macadam debris, but otherwise apparently undisturbed.
July 25, 1999	Re-paving complete around MW-6. Debris cleared from MW-7 well cover, but MW-7 well cover found to have been broken and is loose in the paving of Madison Street, which has not been re-paved. On removal of the dedicated bailer hung in the well casing, it was found that the upper 6 inches of the casing above the top of the bailer was blocked by bituminous macadam debris and there was evidence that some of that material had fallen further down the well to the groundwater table.

Bituminous macadam contains a large number of petroleum hydrocarbon compounds, particularly long carbon-chain compounds. During re-paving operations, other lighter petroleum compounds are used as solvents and for treatment of existing pavement prior to laying new surfacing. If any of these materials, which are applied in liquid or semi-liquid form, or pavement debris from street planing operations were introduced into the groundwater monitoring wells they would cause the type of increase in concentrations of petroleum hydrocarbons that have been observed at the 208 Jackson Street site.

The data trends and field conditions described above strongly support the following interpretation of the cause of the sudden appearance of components of fuel hydrocarbons in MW-6 on April 25, 1999 and the notable increase in the concentrations of components of fuel hydrocarbons in MW-7 on July 25, 1999 as being related to the re-paving work performed in area of the site

When the wells were first sampled on January 9, 1999, the pavement around the site was in its original condition. By the sampling round conducted on April 25, 1999, some material related to the re-paving work had been introduced into MW-6; this resulted in the unexpected presence of petroleum hydrocarbons in that well. On that date, the paving contractor had stored paving debris directly on top of the MW-7 casing closure, but the bolted casing cover and well cap had prevented introduction of any of this material into the well. Thus, concentrations of analytes of concern in MW-7 declined compared to those detected in samples recovered previously from this well, as would be expected due to the beneficial effects of the remediation work on the site by that time.

By July 25, 1999, the re-paving of Second Street had been completed and the petroleum compounds introduced into MW-6 by that activity had declined, due to natural dispersion, dilution and the purging of the well during the April and July sampling rounds. At sometime between April 25, 1999 and July 25, 1999, the MW-7 well cover was damaged and displaced by the bucket of heavy equipment used to load the paving debris that had been temporarily stored over it. This activity caused debris to fall into the well casing before the paving contractor reset the cover over the well. The material introduced into the well at that time caused the concentration of petroleum hydrocarbons in the groundwater to rise significantly, thus accounting for the results obtained by the analysis of the sample obtained from MW-7 on July 25, 1999.

In SJC's opinion, the above scenario is well supported by the sampling data. We expect - assuming that there are no future events that might adversely affect the groundwater – that the temporary increase in concentrations of analytes of concern will decline slowly with continuing natural dispersion, dilution and the beneficial effects of well purging during the next round of sampling Accordingly, at this time, we do not interpret the phenomenon observed to represent a material worsening of groundwater quality in the area of the 208 Jackson Street site.

Engineering Reports and Filings

During the reporting period, the following report was prepared

Quarterly Status and Groundwater-quality Monitoring Report, March 1, 1999 to May 31, 1999 - 208 Jackson Street, Oakland, California It was submitted to the ACHCSA on June 2, 1999

WORK IN PROGRESS

The following work is in progress.

Groundwater-quality Monitoring

The fourth round of sampling from groundwater-quality monitoring wells MW-6 and MW-7 is scheduled for October 24, 1999. To assist in the mitigation of the perturbation in concentration levels resulting from the street re-paving activities in the area, when that sampling round is performed, a volume of groundwater twice that required to comply with the standard well-sampling protocol will be purged from both wells before samples are recovered

Engineer's Report of Remediation

A formal engineer's report of remediation is being prepared that will document the environmental history of the site, including the work performed for the site remediation, and

tabulations of all geotechnical and geochemical data gathered from the subject site over the years, together with assessments and evaluations of that data

REFERENCES

Alameda County Health Care Services Agency (1998a) Letter: *RE: 208 Jackson Street, Oakland, California 94607*, from Larry Seto (Senior Hazardous Materials Specialist) to Mr. Scott Johnson, SNK Development Inc. December 3, 1998.

Alameda County Health Care Services Agency (1998b), Letter: *RE: 208 Jackson Street, Oakland, California 94607*, from Larry Seto (Senior Hazardous Materials Specialist) to Mr Scott Johnson, SNK Development Inc. October 21, 1998.

Alameda County Health Care Services Agency (1998c) Letter: *RE: 208 Jackson Street, Oakland, California 94607*, from Larry Seto (Senior Hazardous Materials Specialist) to Mr. Scott Johnson, SNK Development Inc. August 3, 1998.

Dietz Irrigation (1998) Report of Excavation and Treatment of Hydrocarbon Affected Soil – 208 Jackson Street, Oakland, California. November 30, 1998 .

The San Joaquin Company Inc (1999a), *Quarterly Status and Groundwater-quality Monitoring Report, December 1, 1998 to February 29, 1999 - 208 Jackson Street, Oakland, California. April 1999.*

The San Joaquin Company Inc. (1999b), *Quarterly Status and Groundwater-quality Monitoring Report, March 1, 1999 to May 31, 1999 - 208 Jackson Street, Oakland, California. June 1999.*

The San Joaquin Company Inc (1998), *Remediation Plan - 208 Jackson Street, Oakland, California* June 1998 (Revised October 1998)

TABLE 1

DEPTHS TO GROUNDWATER

Well No.	Date Measured	Casing Elevation MSL	Groundwater Depth in feet	Groundwater Elevation MSL
MW-6	01/09/99	5.63	4.57	1.06
	04/25/99		4.00	1.63
	07/25/99		4.23	1.40
MW-7	01/09/99	5.15	4.58	0.57
	04/25/99		4.10	1.05
	07/25/99		4.04	1.11

Notes: (1) All elevations in feet relative to mean sea level (MSL).

TABLE 2

RESULTS OF ANALYSES OF SAMPLES FROM GROUNDWATER-QUALITY MONITORING WELLS

Primary Analyses by Chromalab, Inc.

Well No.	Date Sampled	TPHd µg/L	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L	MTBE µg/L
MW-6	01/09/99	ND	ND	ND	ND	ND	1.70	n.a.
	04/25/99	140	4500	26	160	9.8	140	n.a.
	07/25/99	89	1400	ND	ND	ND	ND	1500
MW-7	01/09/99	1900	7200	410	550	120	1200	n.a.
	04/25/99	1800	4500	960	47	ND	730	n.a.
	07/25/99	1200	9100	2000	830	610	2000	ND

Quality Assurance Analyses by Curtis & Tompkins, Ltd.

Well No.	Date Sampled	TPHd µg/L	TPHg µg/L	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Total Xylenes µg/L	MTBE µg/L
MW-6	07/25/99	190	ND	ND	ND	ND	0.64	2700
MW-7	07/25/99	1100	7200	1900	790	560	1940	ND

Notes: (1) ND = Not detected above the Method Detection Limit (MDL)
(2) n.a. = Not analyzed for this analyte

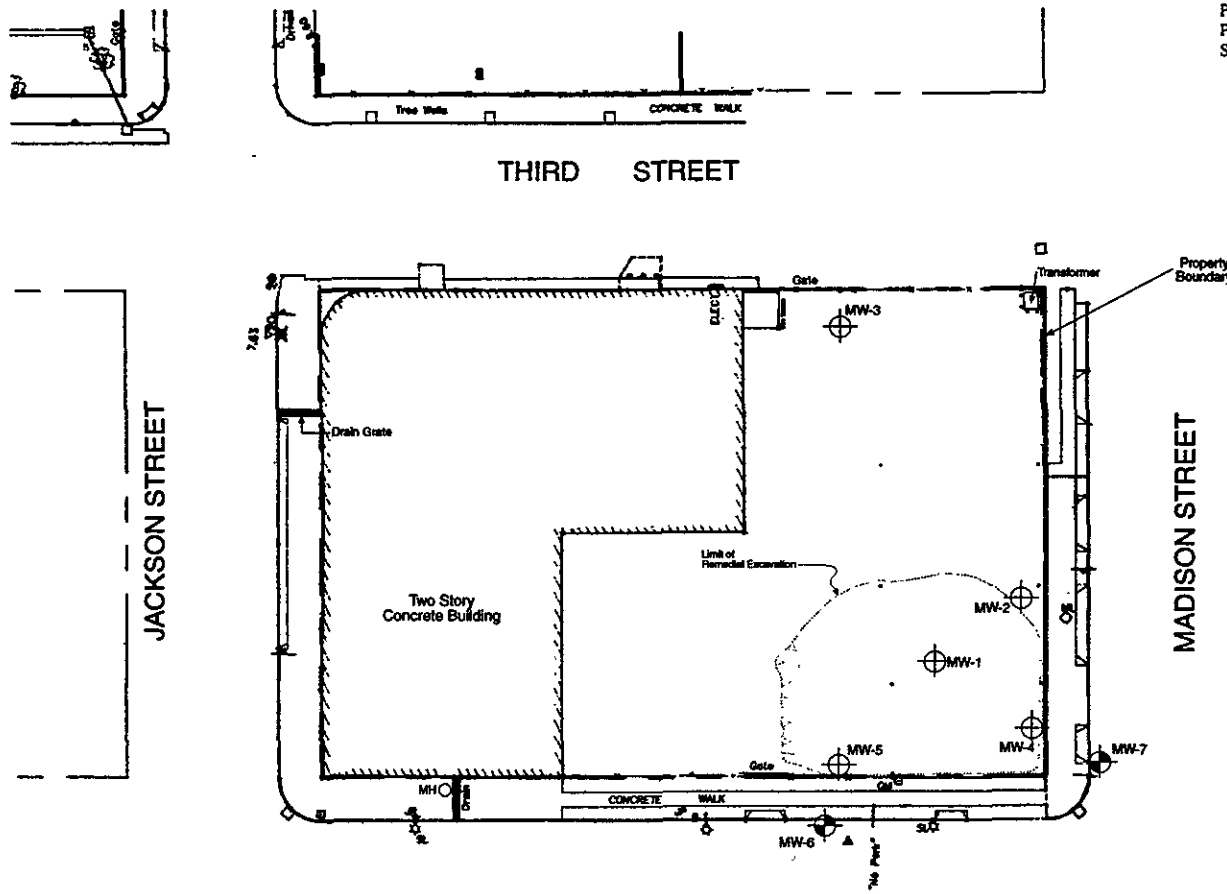
Basemap: AAA; Oakland-Berkeley-Alameda (2/91)

SITE LOCATION

208 Jackson Street, Oakland, California

FIG 1	**The San Joaquin Company, Inc.**	Project Number: 9401.113	
		Drawn by: GNM	Date: 06/09/98

Based on:
Phillippi Engineering (04/11/98)
Project: A.L.T.A. Survey Block 13 & Portions of 35 & 36
Sheet Title: S.N.K. Realty Group



EXPLANATION

MW-5 ⊕ Monitoring Well (closed)

MW-7 ⊕ Monitoring Well

REGISTERED PROFESSIONAL ENGINEER
D. J. WATKINS
No. 882
Exp. 3/31/02
GEOTECHNICAL
STATE OF CALIFORNIA

01/28/99

WELL LOCATIONS
208 Jackson Street, Oakland, California

FIG. 2	**The San Joaquin Company, Inc.**	Project Number: 9401.114
		Drawn by: GNM Date: 01/28/99

APPENDIX A

LABORATORY CERTIFICATES OF ANALYSIS

CHROMALAB, INC.
Environmental Services (SDB)

Submission #: 1999-07-0401
Date: August 2, 1999

The San Joaquin Company, Inc.
1120 Hollywood Ave, Suite 3
Oakland, CA 94602-1459

Attn.: Mr. Dai Watkins

Project: 9401.114
SNK Oakland (Wo Lee)

Dear Dai,

Attached is our report for your samples received on Monday July 26, 1999.
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after August 25, 1999 unless you have requested otherwise. We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

Sincerely,

Gary Cook

Gas/BTEX

The San Joaquin Company, Inc.

1120 Hollywood Ave, Suite 3
Oakland, CA 94602-1459

Attn: Dai Watkins

Phone: (510) 336-9118 Fax: (510) 336-9119

Project #: 9401.114

Project: SNK Oakland (Wo Lee)

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-6	Water	07/25/1999 10:00	1
MW-7	Water	07/25/1999 10:30	2

To: **The San Joaquin Company, Inc.**

Attn.: Dai Watkins

Test Method: 8015M
8020

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-6**	Lab Sample ID:	**1999-07-0401-001**
Project:	9401.114 SNK Oakland (Wo Lee)	Received:	07/26/1999 11:30
		Extracted:	07/29/1999 10:38
Sampled:	07/25/1999 10:00	QC-Batch:	1999/07/29-01.03
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	1400	500	ug/L	10.00	07/29/1999 10:38	g
Benzene	ND	5.0	ug/L	10.00	07/29/1999 10:38	
Toluene	ND	5.0	ug/L	10.00	07/29/1999 10:38	
Ethyl benzene	ND	5.0	ug/L	10.00	07/29/1999 10:38	
Xylene(s)	ND	5.0	ug/L	10.00	07/29/1999 10:38	
Surrogate(s)						
Trifluorotoluene	104.9	58-124	%	1.00	07/29/1999 10:38	
4-Bromofluorobenzene-FID	96.6	50-150	%	1.00	07/29/1999 10:38	

To: **The San Joaquin Company, Inc.**

Attn.: Dai Watkins

Test Method: 8015M
8020

Prep Method: 5030

Gas/BTEX

Sample ID:	**MW-7**	Lab Sample ID:	**1999-07-0401-002**
Project:	9401.114 SNK Oakland (Wo Lee)	Received:	07/26/1999 11:30
		Extracted:	07/29/1999 11:06
Sampled:	07/25/1999 10:30	QC-Batch:	1999/07/29-01.03
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	9100	1000	ug/L	20.00	07/29/1999 11:06	
Benzene	2000	10	ug/L	20.00	07/29/1999 11:06	
Toluene	830	10	ug/L	20.00	07/29/1999 11:06	
Ethyl benzene	610	10	ug/L	20.00	07/29/1999 11:06	
Xylene(s)	2000	10	ug/L	20.00	07/29/1999 11:06	
Surrogate(s)						
Trifluorotoluene	102.2	58-124	%	1.00	07/29/1999 11:06	
4-Bromofluorobenzene-FID	109.2	50-150	%	1.00	07/29/1999 11:06	

To: **The San Joaquin Company, Inc.**

Attn.: Dai Watkins

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report
Gas/BTEX

Method Blank **Water** **QC Batch # 1999/07/29-01.03**

MB: 1999/07/29-01.03-003 Date Extracted: 07/29/1999 09:55

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	07/29/1999 09:55	
Benzene	ND	0.5	ug/L	07/29/1999 09:55	
Toluene	ND	0.5	ug/L	07/29/1999 09:55	
Ethyl benzene	ND	0.5	ug/L	07/29/1999 09:55	
Xylene(s)	ND	0.5	ug/L	07/29/1999 09:55	
Surrogate(s)					
Trifluorotoluene	115.4	58-124	%	07/29/1999 09:55	
4-Bromofluorobenzene-FID	108.2	50-150	%	07/29/1999 09:55	

To: **The San Joaquin Company, Inc.**

Test Method: 8015M
8020

Attn: Dai Watkins

Prep Method: 5030

Batch QC Report

Gas/BTEX

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/07/29-01.03**

LCS: 1999/07/29-01.03-001 Extracted: 07/29/1999 06:20 Analyzed: 07/29/1999 06:20

LCSD: 1999/07/29-01.03-002 Extracted: 07/29/1999 07:13 Analyzed: 07/29/1999 07:13

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	460	483	500	500	92.0	96.6	4.9	75-125	20		
Benzene	87.1	95.0	100.0	100.0	87.1	95.0	8.7	77-123	20		
Toluene	86.1	94.3	100.0	100.0	86.1	94.3	9.1	78-122	20		
Ethyl benzene	82.7	93.7	100.0	100.0	82.7	93.7	12.5	70-130	20		
Xylene(s)	245	272	300	300	81.7	90.7	10.4	75-125	20		
Surrogate(s)											
Trifluorotoluene	442	469	500	500	88.4	93.8		58-124			
4-Bromofluorobenzene-FI	416	442	500	500	83.2	88.4		50-150			

To: **The San Joaquin Company, Inc.**

Attn: Dai Watkins

Test Method: 8015M
8020

Prep Method: 5030

Legend & Notes

Gas/BTEX

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Diesel

The San Joaquin Company, Inc.

1120 Hollywood Ave, Suite 3
Oakland, CA 94602-1459

Attn: Dai Watkins

Phone: (510) 336-9118 Fax: (510) 336-9119

Project #: 9401.114

Project: SNK Oakland (Wo Lee)

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-6	Water	07/25/1999 10:00	1
MW-7	Water	07/25/1999 10:30	2

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-07-0401

To: **The San Joaquin Company, Inc.**
Attn.: Dai Watkins

Test Method: 8015m
Prep Method: 3510/8015M

Diesel

Sample ID:	**MW-6**	Lab Sample ID:	**1999-07-0401-001**
Project:	9401.114 SNK Oakland (Wo Lee)	Received:	07/26/1999 11:30
		Extracted:	07/29/1999 09:00
Sampled:	07/25/1999 10:00	QC-Batch:	1999/07/29-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	89	50	ug/L	1.00	07/30/1999 14:36	ndp
Surrogate(s)						
o-Terphenyl	93.7	60-130	%	1.00	07/30/1999 14:36	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-07-0401

To: **The San Joaquin Company, Inc.**
Attn.: Dai Watkins

Test Method: 8015m
Prep Method: 3510/8015M

Diesel

Sample ID:	**MW-7**	Lab Sample ID:	**1999-07-0401-002**
Project:	9401.114 SNK Oakland (Wo Lee)	Received:	07/26/1999 11:30
		Extracted:	07/29/1999 09:00
Sampled:	07/25/1999 10:30	QC-Batch:	1999/07/29-02.10
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	1200	50	ug/L	1.00	07/30/1999 15:08	ed
Surrogate(s)						
o-Terphenyl	88.3	60-130	%	1.00	07/30/1999 15:08	

To: **The San Joaquin Company, Inc.**
Attn.: Dai Watkins

Test Method: 8015m
Prep Method: 3510/8015M

Batch QC Report
Diesel

Method Blank | **Soil** | **QC Batch # 1999/07/29-02.10**

MB: 1999/07/29-02.10-001 | Date Extracted: 07/29/1999 09:00

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	07/30/1999 13:51	
Surrogate(s)					
o-Terphenyl	78.5	60-130	%	07/30/1999 13:51	

To: **The San Joaquin Company, Inc.**

Attn: Dai Watkins

Test Method: 8015m

Prep Method: 3510/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD) **Soil** **QC Batch # 1999/07/29-02.10**

LCS: 1999/07/29-02.10-002 Extracted: 07/29/1999 09:00 Analyzed: 07/30/1999 12:25

LCSD: 1999/07/29-02.10-003 Extracted: 07/29/1999 09:00 Analyzed: 07/30/1999 12:57

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	37.8	33.3	41.7	41.7	90.6	79.9	12.6	60-130	25		
Surrogate(s)											
o-Terphenyl	24.4	21.4	20.0	20.0	122.0	107.0		60-130			

To: **The San Joaquin Company, Inc.**
Attn:Dai Watkins

Test Method: 8015m
Prep Method: 3510/8015M

Legend & Notes

Diesel

Analyte Flags

ed

Hydrocarbon reported is in the early Diesel range, and does not match our Diesel standard

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-07-0401

MTBE - Volatile Organics by GC/MS

The San Joaquin Company, Inc.

1120 Hollywood Ave, Suite 3
Oakland, CA 94602-1459

Attn: Dai Watkins

Phone: (510) 336-9118 Fax: (510) 336-9119

Project #: 9401.114

Project: SNK Oakland (Wo Lee)

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-6	Water	07/25/1999 10:00	1
MW-7	Water	07/25/1999 10:30	2

To: **The San Joaquin Company, Inc.**
Attn.: Dai Watkins

Test Method: 8260A
Prep Method: 5030

MTBE - Volatile Organics by GC/MS

Sample ID:	**MW-6**	Lab Sample ID:	**1999-07-0401-001**
Project:	9401.114 SNK Oakland (Wo Lee)	Received:	07/26/1999 11:30
		Extracted:	07/30/1999 18:19
Sampled:	07/25/1999 10:00	QC-Batch:	1999/07/30-01.27
Matrix:	Water		

Sample/Analysis Flag: o (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	1500	200	ug/L	40.00	07/30/1999 18:19	
Surrogate(s)						
4-Bromofluorobenzene	107.0	86-115	%	1.00	07/30/1999 18:19	
1,2-Dichloroethane-d4	85.6	76-114	%	1.00	07/30/1999 18:19	
Toluene-d8	95.1	88-110	%	1.00	07/30/1999 18:19	

To: **The San Joaquin Company, Inc.**
Attn.: Dai Watkins

Test Method: 8260A
Prep Method: 5030

MTBE - Volatile Organics by GC/MS

Sample ID:	**MW-7**	Lab Sample ID:	**1999-07-0401-002**
Project:	9401.114 SNK Oakland (Wo Lee)	Received:	07/26/1999 11:30
		Extracted:	07/30/1999 18:57
Sampled:	07/25/1999 10:30	QC-Batch:	1999/07/30-01.27
Matrix:	Water		

Sample/Analysis Flag: o (See Legend & Note section)

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MTBE	ND	200	ug/L	40.00	07/30/1999 18:57	
Surrogate(s)						
4-Bromofluorobenzene	107.0	86-115	%	1.00	07/30/1999 18:57	
1,2-Dichloroethane-d4	88.9	76-114	%	1.00	07/30/1999 18:57	
Toluene-d8	94.8	88-110	%	1.00	07/30/1999 18:57	

To: **The San Joaquin Company, Inc.**
Attn.: Dai Watkins

Test Method: 8260A
Prep Method: 5030

Batch QC Report

MTBE - Volatile Organics by GC/MS

Method Blank **Water** **QC Batch # 1999/07/30-01.27**

MB: 1999/07/30-01.27-001 Date Extracted: 07/30/1999 13:25

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Benzene	ND	0.5	ug/L	07/30/1999 13:25	
Chlorobenzene	ND	0.5	ug/L	07/30/1999 13:25	
Ethylbenzene	ND	0.5	ug/L	07/30/1999 13:25	
Toluene	ND	0.5	ug/L	07/30/1999 13:25	
Trichloroethene	ND	0.5	ug/L	07/30/1999 13:25	
MTBE	ND	50	ug/L	07/30/1999 13:25	
Surrogate(s)					
4-Bromofluorobenzene	104.8	86-115	%	07/30/1999 13:25	
1,2-Dichloroethane-d4	83.4	76-114	%	07/30/1999 13:25	
Toluene-d8	94.2	88-110	%	07/30/1999 13:25	

To: **The San Joaquin Company, Inc.**

Attn: Dai Watkins

Test Method: 8260A

Prep Method: 5030

Batch QC Report

MTBE - Volatile Organics by GC/MS

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/07/30-01.27**

LCS: 1999/07/30-01.27-002 Extracted: 07/30/1999 12:03 Analyzed: 07/30/1999 12:03

LCSD: 1999/07/30-01.27-003 Extracted: 07/30/1999 12:48 Analyzed: 07/30/1999 12:48

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	43.9	44.8	50.0	50.0	87.8	89.6	2.0	69-129	20		
Chlorobenzene	52.0	53.1	50.0	50.0	104.0	106.2	2.1	61-121	20		
Toluene	43.2	43.6	50.0	50.0	86.4	87.2	0.9	70-130	20		
Trichloroethene	41.5	41.7	50.0	50.0	83.0	83.4	0.5	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	530	551	500	500	106.0	110.2		86-115			
1,2-Dichloroethane-d4	439	461	500	500	87.8	92.2		76-114			
Toluene-d8	441	456	500	500	88.2	91.2		88-110			

To: **The San Joaquin Company, Inc.**
Attn:Dai Watkins

Test Method: 8260A
Prep Method: 5030

Legend & Notes

MTBE - Volatile Organics by GC/MS

Analysis Flags

O

Reporting limits were raised due to high level of analyte present in the sample.

99.07.0401

47123

THE SAN JOAQUIN COMPANY INC.

☐ 8617 Etcheverry Drive, Tracy, CA 95376
Voice: (209) 832-2910 Fax: (209) 833-1288

☒ 1120 Hollywood Ave. No. 3 , CA. 94602
Voice (510) 336-9118 Fax: (510) 336-9119

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS RECORD

Project: SNK Oakland (Wo Lee)
Project No.: 9401.114
Sampling Team: Watkins / Dietz

Laboratory: Chromalab
Carrier: The San Joaquin Company Inc.
Waybill No.: —

Sample No.	Type	Sampling Location	Date Sampled	Time Sampled	Analyses Requested	Lab. No.
MW-6	water	Monitoring Well 6	7/25/99	10:00 AM	TPH d / TPH g + BTEX /	
		3 VOAs / 1 Amber jar			MTBE by Method 6020A	
MW-7	water	Monitoring Well 7	7/25/99	10:30 AM	TPH d / TPH g + BTEX /	
		3 VOA's / 1 Amber jar			MTBE by method ~~8260A~~ 8260A	

Sample Hazards: gas / diesel

Priority: Routine ☒ Expedited ☐ Special ☐

Notes: 4.5°C

CUSTODY RECORD	Print Name	Company	Date Received	Time Received	Date Relinquished	Time Relinquished	Signature
Originator:	D. Watkins	The San Joaquin Co Inc	—	—	07/26/99	11:30	D. Watkins
Received/ Relinquished by:							
Received/ Relinquished by:							
Received/ Relinquished by:							
Received at Laboratory by:	D. Harrington	Chromalab	7/26/99	11:30	—	—	Denise Harrington

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900, Fax (510) 486-0532

A N A L Y T I C A L R E P O R T

Prepared for:

The San Joaquin Company Inc.
1120 Hollywood Ave.No.3
Oakland, CA 94602

Date: 10-AUG-99
Lab Job Number: 140610
Project ID: 9401.114
Location: SNK Oakland

Reviewed by: _____

Reviewed by: _____

TVH-Total Volatile Hydrocarbons

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8015M
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140610-001	MW6QA	49613	07/25/99	07/29/99	07/29/99	
140610-002	MW7QA	49613	07/25/99	07/30/99	07/30/99	

Matrix: Water

Analyte	Units	140610-001	140610-002	
Diln Fac:		1	1	
Gasoline C7-C12	ug/L	<50	7200	
Surrogate				
Trifluorotoluene	%REC	106	83	
Bromofluorobenzene	%REC	108	260	*

* Values outside of QC limits

BTXE

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8021B
Prep Method: EPA 5030

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140610-001	MW6QA	49613	07/25/99	07/29/99	07/29/99	
140610-002	MW7QA	49667	07/25/99	08/02/99	08/02/99	

Matrix: Water

Analyte	Units	140610-001	140610-002
Diln Fac:		1	20
Benzene	ug/L	<0.5	1900
Toluene	ug/L	<0.5	790
Ethylbenzene	ug/L	<0.5	560
m,p-Xylenes	ug/L	0.64	1400
o-Xylene	ug/L	<0.5	540
Surrogate			
Trifluorotoluene	%REC	95	125
Bromofluorobenzene	%REC	99	131

TVH-Total Volatile Hydrocarbons

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8015M
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 49613
Units: ug/L
Diln Fac: 1

Prep Date: 07/29/99
Analysis Date: 07/29/99

MB Lab ID: QC03799

Analyte	Result
Gasoline C7-C12	<50

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	102	53-150
Bromofluorobenzene	103	53-149

BTXE

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8021B
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 49613
Units: ug/L
Diln Fac: 1

Prep Date: 07/29/99
Analysis Date: 07/29/99

MB Lab ID: QC03799

Analyte	Result
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylenes	<0.5
o-Xylene	<0.5

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	89	51-143
Bromofluorobenzene	92	37-146

BTXE

Client:	The San Joaquin Company Inc.	Analysis Method:	EPA 8021B
Project#:	9401.114	Prep Method:	EPA 5030
Location:	SNK Oakland		

METHOD BLANK

Matrix:	Water	Prep Date:	08/02/99
Batch#:	49667	Analysis Date:	08/02/99
Units:	ug/L		
Diln Fac:	1		

MB Lab ID: QC03993

Analyte	Result
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
m,p-Xylenes	<0.5
o-Xylene	<0.5

Surrogate	%Rec	Recovery Limits
Trifluorotoluene	112	51-143
Bromofluorobenzene	114	37-146

TVH-Total Volatile Hydrocarbons

Client:	The San Joaquin Company Inc.	Analysis Method:	EPA 8015M
Project#:	9401.114	Prep Method:	EPA 5030
Location:	SNK Oakland		

LABORATORY CONTROL SAMPLE

Matrix:	Water	Prep Date:	07/29/99
Batch#:	49613	Analysis Date:	07/29/99
Units:	ug/L		
Diln Fac:	1		

LCS Lab ID: QC03800

Analyte	Result	Spike Added	%Rec #	Limits
Gasoline C7-C12	1727	2000	86	77-117

Surrogate	%Rec	Limits
Trifluorotoluene	111	53-150
Bromofluorobenzene	124	53-149

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 1 outside limits

BTXE

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8021B
Prep Method: EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water
Batch#: 49613
Units: ug/L
Diln Fac: 1

Prep Date: 07/29/99
Analysis Date: 07/29/99

BS Lab ID: QC03861

Analyte	Spike Added	BS	%Rec #	Limits
Benzene	20	15.57	78	65-111
Toluene	20	15.46	77	76-117
Ethylbenzene	20	15.46	77	71-121
m,p-Xylenes	40	32.34	81	80-123
o-Xylene	20	15.77	79	75-127

Surrogate	%Rec	Limits
Trifluorotoluene	96	51-143
Bromofluorobenzene	98	37-146

BSD Lab ID: QC03862

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Benzene	20	16.8	84	65-111	8	10
Toluene	20	16.67	83	76-117	8	10
Ethylbenzene	20	16.85	84	71-121	9	11
m,p-Xylenes	40	35.16	88	80-123	8	10
o-Xylene	20	17.12	88	75-127	8	11

Surrogate	%Rec	Limits
Trifluorotoluene	90	51-143
Bromofluorobenzene	93	37-146

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

BTXE

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8021B
Prep Method: EPA 5030

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water
Batch#: 49667
Units: ug/L
Diln Fac: 1

Prep Date: 08/03/99
Analysis Date: 08/03/99

BS Lab ID: QC03994

Analyte	Spike Added	BS	%Rec #	Limits
Benzene	20	18.41	92	65-111
Toluene	20	19.19	96	76-117
Ethylbenzene	20	20	100	71-121
m,p-Xylenes	40	40	100	80-123
o-Xylene	20	20.73	104	75-127

Surrogate	%Rec	Limits
Trifluorotoluene	118	51-143
Bromofluorobenzene	122	37-146

BSD Lab ID: QC03995

Analyte	Spike Added	BSD	%Rec #	Limits	RPD #	Limit
Benzene	20	18.33	92	65-111	0	10
Toluene	20	18.88	94	76-117	2	10
Ethylbenzene	20	19.85	99	71-121	1	11
m,p-Xylenes	40	39.68	99	80-123	1	10
o-Xylene	20	20.63	103	75-127	0	11

Surrogate	%Rec	Limits
Trifluorotoluene	114	51-143
Bromofluorobenzene	118	37-146

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

TVH-Total Volatile Hydrocarbons

Client:	The San Joaquin Company Inc.	Analysis Method:	EPA 8015M
Project#:	9401.114	Prep Method:	EPA 5030
Location:	SNK Oakland		

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID:	MW6QA	Sample Date:	07/25/99
Lab ID:	140610-001	Received Date:	07/26/99
Matrix:	Water	Prep Date:	07/29/99
Batch#:	49613	Analysis Date:	07/29/99
Units:	ug/L		
Diln Fac:	1		

MS Lab ID: QC03863

Analyte	Spike Added	Sample	MS	%Rec #	Limits
Gasoline C7-C12	2000	<50	1938	97	69-131

Surrogate	%Rec	Limits
Trifluorotoluene	112	53-150
Bromofluorobenzene	128	53-149

MSD Lab ID: QC03864

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
Gasoline C7-C12	2000	1963	98	69-131	1	13

Surrogate	%Rec	Limits
Trifluorotoluene	108	53-150
Bromofluorobenzene	124	53-149

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

TEH-Tot Ext Hydrocarbons

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8015M
Prep Method: EPA 3520

Sample #	Client ID	Batch #	Sampled	Extracted	Analyzed	Moisture
140610-001	MW6QA	49605	07/25/99	07/28/99	07/30/99	
140610-002	MW7QA	49605	07/25/99	07/28/99	07/30/99	

Matrix: Water

Analyte	Units	140610-001	140610-002
Diln Fac:		1	1
Diesel C10-C24	ug/L	190 YH	1100 YL
Surrogate			
Hexacosane	%REC	71	69

Y: Sample exhibits fuel pattern which does not resemble standard
H: Heavier hydrocarbons than indicated standard
L: Lighter hydrocarbons than indicated standard

TEH-Tot Ext Hydrocarbons

Client:	The San Joaquin Company Inc.	Analysis Method:	EPA 8015M
Project#:	9401.114	Prep Method:	EPA 3520
Location:	SNK Oakland		

METHOD BLANK

Matrix:	Water	Prep Date:	07/28/99
Batch#:	49605	Analysis Date:	07/29/99
Units:	ug/L		
Diln Fac:	1		

MB Lab ID: QC03772

Analyte	Result
Diesel C10-C24	<50

Surrogate	%Rec	Recovery Limits
Hexacosane	79	58-128

TEH-Tot Ext Hydrocarbons	
Client: The San Joaquin Company Inc.	Analysis Method: EPA 8015M
Project#: 9401.114	Prep Method: EPA 3520
Location: SNK Oakland	

BLANK SPIKE/BLANK SPIKE DUPLICATE

Matrix: Water	Prep Date: 07/28/99
Batch#: 49605	Analysis Date: 07/30/99
Units: ug/L	
Diln Fac: 1	

BS Lab ID: QC03773

Analyte	Spike Added	BS	%Rec	#	Limits
Diesel C10-C24	2475	1884	76		50-114

Surrogate	%Rec	Limits
Hexacosane	85	58-128

BSD Lab ID: QC03774

Analyte	Spike Added	BSD	%Rec	#	Limits	RPD	#	Limit
Diesel C10-C24	2475	1882	76		50-114	0		25

Surrogate	%Rec	Limits
Hexacosane	81	58-128

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 2 outside limits

Volatile Organics by GC/MS

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8260
Prep Method: EPA 5030

Field ID: MW6QA
Lab ID: 140610-001
Matrix: Water
Batch#: 49644
Units: ug/L
Diln Fac: 16.67

Sampled: 07/25/99
Received: 07/26/99
Extracted: 07/30/99
Analyzed: 07/30/99

Analyte	Result	Reporting Limit
Freon 12	ND	170
Chloromethane	ND	170
Vinyl Chloride	ND	170
Bromomethane	ND	170
Chloroethane	ND	170
Trichlorofluoromethane	ND	83
Acetone	ND	330
Freon 113	ND	83
1,1-Dichloroethene	ND	83
Methylene Chloride	ND	330
Carbon Disulfide	ND	83
MTBE	2700	83
trans-1,2-Dichloroethene	ND	83
Vinyl Acetate	ND	830
1,1-Dichloroethane	ND	83
2-Butanone	ND	170
cis-1,2-Dichloroethene	ND	83
2,2-Dichloropropane	ND	83
Chloroform	ND	83
Bromochloromethane	ND	170
1,1,1-Trichloroethane	ND	83
1,1-Dichloropropene	ND	83
Carbon Tetrachloride	ND	83
1,2-Dichloroethane	ND	83
Benzene	ND	83
Trichloroethene	ND	83
1,2-Dichloropropane	ND	83
Bromodichloromethane	ND	83
Dibromomethane	ND	83
4-Methyl-2-Pentanone	ND	170
cis-1,3-Dichloropropene	ND	83
Toluene	ND	83
trans-1,3-Dichloropropene	ND	83
1,1,2-Trichloroethane	ND	83
2-Hexanone	ND	170
1,3-Dichloropropane	ND	83
Tetrachloroethene	ND	83
Dibromochloromethane	ND	83

Volatile Organics by GC/MS

Field ID:	MW6QA	Sampled:	07/25/99
Lab ID:	140610-001	Received:	07/26/99
Matrix:	Water	Extracted:	07/30/99
Batch#:	49644	Analyzed:	07/30/99
Units:	ug/L		
Diln Fac:	16.67		

Analyte	Result	Reporting Limit
1,2-Dibromoethane	ND	83
Chlorobenzene	ND	83
1,1,1,2-Tetrachloroethane	ND	83
Ethylbenzene	ND	83
m,p-Xylenes	ND	83
o-Xylene	ND	83
Styrene	ND	83
Bromoform	ND	83
Isopropylbenzene	ND	83
1,1,2,2-Tetrachloroethane	ND	83
1,2,3-Trichloropropane	ND	83
Propylbenzene	ND	83
Bromobenzene	ND	83
1,3,5-Trimethylbenzene	ND	83
2-Chlorotoluene	ND	83
4-Chlorotoluene	ND	83
tert-Butylbenzene	ND	83
1,2,4-Trimethylbenzene	ND	83
sec-Butylbenzene	ND	83
para-Isopropyl Toluene	ND	83
1,3-Dichlorobenzene	ND	83
1,4-Dichlorobenzene	ND	83
n-Butylbenzene	ND	83
1,2-Dichlorobenzene	ND	83
1,2-Dibromo-3-Chloropropane	ND	83
1,2,4-Trichlorobenzene	ND	83
Hexachlorobutadiene	ND	83
Naphthalene	ND	83
1,2,3-Trichlorobenzene	ND	83

Surrogate	%Recovery	Recovery Limits
Dibromofluoromethane	101	81-121
1,2-Dichloroethane-d4	104	76-127
Toluene-d8	104	90-109
Bromofluorobenzene	99	82-118

Volatile Organics by GC/MS

Client:	The San Joaquin Company Inc.	Analysis Method:	EPA 8260
Project#:	9401.114	Prep Method:	EPA 5030
Location:	SNK Oakland (Wo Lee)		

Field ID:	MW7QA	Sampled:	07/25/99
Lab ID:	140610-002	Received:	07/26/99
Matrix:	Water	Extracted:	07/30/99
Batch#:	49644	Analyzed:	07/30/99
Units:	ug/L		
Diln Fac:	12.5		

Analyte	Result	Reporting Limit
Freon 12	ND	130
Chloromethane	ND	130
Vinyl Chloride	ND	130
Bromomethane	ND	130
Chloroethane	ND	130
Trichlorofluoromethane	ND	63
Acetone	ND	250
Freon 113	ND	63
1,1-Dichloroethene	ND	63
Methylene Chloride	ND	250
Carbon Disulfide	ND	63
MTBE	ND	63
trans-1,2-Dichloroethene	ND	63
Vinyl Acetate	ND	630
1,1-Dichloroethane	ND	63
2-Butanone	ND	130
cis-1,2-Dichloroethene	ND	63
2,2-Dichloropropane	ND	63
Chloroform	ND	63
Bromochloromethane	ND	130
1,1,1-Trichloroethane	ND	63
1,1-Dichloropropene	ND	63
Carbon Tetrachloride	ND	63
1,2-Dichloroethane	ND	63
Benzene	1900	63
Trichloroethene	ND	63
1,2-Dichloropropane	ND	63
Bromodichloromethane	ND	63
Dibromomethane	ND	63
4-Methyl-2-Pentanone	ND	130
cis-1,3-Dichloropropene	ND	63
Toluene	830	63
trans-1,3-Dichloropropene	ND	63
1,1,2-Trichloroethane	ND	63
2-Hexanone	ND	130
1,3-Dichloropropane	ND	63
Tetrachloroethene	ND	63
Dibromochloromethane	ND	63

Volatile Organics by GC/MS

Field ID:	MW7QA	Sampled:	07/25/99
Lab ID:	140610-002	Received:	07/26/99
Matrix:	Water	Extracted:	07/30/99
Batch#:	49644	Analyzed:	07/30/99
Units:	ug/L		
Diln Fac:	12.5		

Analyte	Result	Reporting Limit
1,2-Dibromoethane	ND	63
Chlorobenzene	ND	63
1,1,1,2-Tetrachloroethane	ND	63
Ethylbenzene	560	63
m,p-Xylenes	1400	63
o-Xylene	550	63
Styrene	ND	63
Bromoform	ND	63
Isopropylbenzene	53 J	63
1,1,2,2-Tetrachloroethane	ND	63
1,2,3-Trichloropropane	ND	63
Propylbenzene	110	63
Bromobenzene	ND	63
1,3,5-Trimethylbenzene	130	63
2-Chlorotoluene	ND	63
4-Chlorotoluene	ND	63
tert-Butylbenzene	ND	63
1,2,4-Trimethylbenzene	550	63
sec-Butylbenzene	ND	63
para-Isopropyl Toluene	ND	63
1,3-Dichlorobenzene	ND	63
1,4-Dichlorobenzene	ND	63
n-Butylbenzene	ND	63
1,2-Dichlorobenzene	ND	63
1,2-Dibromo-3-Chloropropane	ND	63
1,2,4-Trichlorobenzene	ND	63
Hexachlorobutadiene	ND	63
Naphthalene	160	63
1,2,3-Trichlorobenzene	ND	63

Surrogate	%Recovery	Recovery Limits
Dibromofluoromethane	98	81-121
1,2-Dichloroethane-d4	100	76-127
Toluene-d8	105	90-109
Bromofluorobenzene	100	82-118

J: Estimated Value

EPA 8260 Volatile Organics

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 49644
Units: ug/L
Diln Fac: 1

Prep Date: 07/30/99
Analysis Date: 07/30/99

MB Lab ID: QC03900

Analyte	Result	Reporting Limit
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

EPA 8260 Volatile Organics

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 49644
Units: ug/L
Diln Fac: 1

Prep Date: 07/30/99
Analysis Date: 07/30/99

MB Lab ID: QC03900

Analyte	Result	Reporting Limit
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%Rec	Recovery Limits
Dibromofluoromethane	98	81-121
1,2-Dichloroethane-d4	100	76-127
Toluene-d8	104	90-109
Bromofluorobenzene	99	82-118

EPA 8260 Volatile Organics

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 49644
Units: ug/L
Diln Fac: 1

Prep Date: 07/30/99
Analysis Date: 07/30/99

MB Lab ID: QC03903

Analyte	Result	Reporting Limit
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	10
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0

EPA 8260 Volatile Organics

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8260A
Prep Method: EPA 5030

METHOD BLANK

Matrix: Water
Batch#: 49644
Units: ug/L
Diln Fac: 1

Prep Date: 07/30/99
Analysis Date: 07/30/99

MB Lab ID: QC03903

Analyte	Result	Reporting Limit
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%Rec	Recovery Limits
Dibromofluoromethane	99	81-121
1,2-Dichloroethane-d4	101	76-127
Toluene-d8	104	90-109
Bromofluorobenzene	100	82-118

EPA 8260 Volatile Organics

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8260A
Prep Method: EPA 5030

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Field ID: ZZZZZZ
Lab ID: 140672-008
Matrix: Water
Batch#: 49644
Units: ug/L
Diln Fac: 1

Sample Date: 07/27/99
Received Date: 07/29/99
Prep Date: 07/30/99
Analysis Date: 07/30/99

MS Lab ID: QC03901

Analyte	Spike Added	Sample	MS	%Rec #	Limits
1,1-Dichloroethene	50	<5	53.68	107	59-144
Benzene	50	<5	51.44	103	67-128
Trichloroethene	50	3.316	53.67	101	61-136
Toluene	50	<5	55.24	110	72-126
Chlorobenzene	50	<5	53.91	108	78-122

Surrogate	%Rec	Limits
Dibromofluoromethane	97	81-121
1,2-Dichloroethane-d4	95	76-127
Toluene-d8	103	90-109
Bromofluorobenzene	101	82-118

MSD Lab ID: QC03902

Analyte	Spike Added	MSD	%Rec #	Limits	RPD #	Limit
1,1-Dichloroethene	50	50.99	102	59-144	5	13
Benzene	50	50.03	100	67-128	3	10
Trichloroethene	50	51.78	97	61-136	4	10
Toluene	50	54.11	108	72-126	2	10
Chlorobenzene	50	52.75	106	78-122	2	10

Surrogate	%Rec	Limits
Dibromofluoromethane	95	81-121
1,2-Dichloroethane-d4	96	76-127
Toluene-d8	104	90-109
Bromofluorobenzene	100	82-118

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

Curtis & Tompkins, Ltd.

EPA 8260 Volatile Organics

Client: The San Joaquin Company Inc.
Project#: 9401.114
Location: SNK Oakland

Analysis Method: EPA 8260
Prep Method: EPA 5030

LABORATORY CONTROL SAMPLE

Matrix: Water
Batch#: 49644
Units: ug/L
Diln Fac: 1

Prep Date: 07/30/99
Analysis Date: 07/30/99

LCS Lab ID: QC03899

Analyte	Result	Spike Added	%Rec #	Limits
1,1-Dichloroethene	52.66	50	105	64-139
Benzene	52.14	50	104	71-127
Trichloroethene	51.15	50	102	72-129
Toluene	55.84	50	112	73-129
Chlorobenzene	54.07	50	108	77-126

Surrogate	%Rec	Limits
Dibromofluoromethane	96	81-121
1,2-Dichloroethane-d4	99	76-127
Toluene-d8	104	90-109
Bromofluorobenzene	100	82-118

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits
Spike Recovery: 0 out of 5 outside limits

THE SAN JOAQUIN COMPANY INC.

☐ 8617 Etcheverry Drive, Tracy, CA 95376
Voice: (209) 832-2910 Fax: (209) 833-1288

☒ 1120 Hollywood Ave. No. 3, CA. 94602 Oakland.
Voice (510) 336-9118 Fax: (510) 336-9119

14060

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS RECORD

Project: SRK Oakland (Wo Cu)
Project No.: 9401.14
Sampling Team: Dietz / Watkins

Laboratory: Curtis & Tomkins
Carrier: The San Joaquin Company Inc.
Waybill No.: —

Sample No.	Type	Sampling Location	Date Sampled	Time Sampled	Analyses Requested	Lab. No.
-1 MW6QA	water	Monitoring Well 6	7/25/99	10:00 AM	Tphd / Tph g + BTEX /	
		3 VOA's 1 Amber jar			MTBE by EPA method 8260A	
-2 MW 7 QA	water	Monitoring Well 7	7/25/99	10:30 AM	Tphd / Tph g + BTEX	
		3 VOA's 1 Amber jar			MTBE by EPA method 8260A	

Sample Hazards: gas / diesel

Priority: Routine ☒ Expedited ☐ Special ☐

Notes:

CUSTODY RECORD	Print Name	Company	Date Received	Time Received	Date Relinquished	Time Relinquished	Signature
Originator:	D. Watkins	The San Joaquin Co. Inc.	—		7/26/99	1045	D. Watkins
Received/ Relinquished by:							
Received/ Relinquished by:							
Received/ Relinquished by:							
Received at Laboratory by:	M. TRAVERS	CT	7/26/99	1045	—	—	M Travers

THE SAN JOAQUIN COMPANY INC.

☐ 8617 Etcheverry Drive, Tracy, CA 95376
Voice: (209) 832-2910 Fax: (209) 833-1288

☒ 1120 Hollywood Ave. No. 3, CA 94602
Voice (510) 336-9118 Fax: (510) 336-9119

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS RECORD

Project: SJK Oakland (Wo Lee)
Project No.: 9401.114
Sampling Team: Deitz / Watkins

Laboratory: Curtis & Tomkins
Carrier: The San Joaquin Company, Inc.
Waybill No.: —

Sample No.	Type	Sampling Location	Date Sampled	Time Sampled	Analyses Requested	Lab. No.
MW6QA	water	Monitoring Well 6	7/25/99	10:00 AM	Tphd / Tph g + BTEX /	
		3 VOA's / 1 amber jar			MTBE by EPA method 6020A	
MW7QA	water	Monitoring Well 7	7/25/99	10:30 AM	Tphd / Tph g + BTEX	
		3 VOA's / 1 amber jar			MTBE by EPA method 8260A	

Sample Hazards: gas / diesel

Priority: Routine ☒ Expedited ☐ Special ☐

Notes:

CUSTODY RECORD	Print Name	Company	Date Received	Time Received	Date Relinquished	Time Relinquished	Signature
Originator:	D. Watkins	The San Joaquin Co.	—		7/26/99	1045	D. Watkins
Received/ Relinquished by:							
Received/ Relinquished by:							
Received/ Relinquished by:							
Received at Laboratory by:	M. TRAVERS	C T	7/26/99	1045	—	—	M. Travers