



CONSULTING & ENGINEERING

ENVIRONMENTAL SERVICES

QUARTERLY GROUNDWATER MONITORING REPORT

CONDUCTED AT

**KELLY-MOORE PAINT STORE
969 SAN PABLO AVENUE
ALBANY, CALIFORNIA**

PREPARED FOR

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OCTOBER 1999


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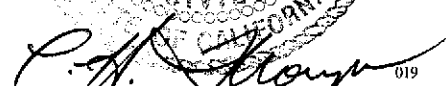
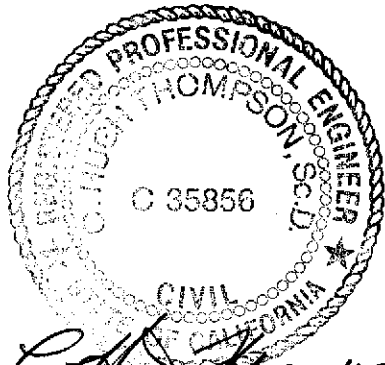
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1.0 - PROJECT BACKGROUND

1.1 - INTRODUCTION

ProTech Consulting & Engineering, Inc. (ProTech) was retained by Kelly-Moore Paint Company (K/M) to perform quarterly groundwater monitoring and reporting at 969 San Pablo Avenue, Albany, California (site). ProTech has performed multiple tasks on this site, including: Phase I - Environmental Site Assessment, hydraulic lift removal, soil boring and groundwater monitor well installation, and groundwater monitoring. The last groundwater monitoring was performed in March 1999. The work reported here was required and/or approved by the Alameda County Health Agency (ACHA).

1.2 - SITE DESCRIPTION

The site is located in Albany, at the junction of San Pablo Avenue and Buchanan Street (Figure 1). It is a commercial building that will be converted from a vehicle maintenance operation to a retail paint store. The site consists of one building that is L-shaped and parking lots both in front and behind the building (Figure 2). The existing groundwater monitor wells are located along the east side of the building (front) and on the north side of the building, along San Pablo Avenue (Figures 2 and 3).

1.3 - SITE BACKGROUND

The site is a former vehicle repair facility which was operated by Firestone Tire and Rubber until the early 1990 when it was sold to Super Shops, Inc. that operated it as vehicle repair and modification shop. Firestone operated a waste oil tank on the site until they removed it in May 1990 (ERM, 1990a).

Chemicals of concern: [total extractible petroleum hydrocarbons, characterized as diesel (TEPH-d); oil and grease (O&G); benzene, toluene, ethyl-benzene, and xylenes (BTEX); 1,2-dichloroethane (1,2-DCA), 1,1-dichloroethane (1,1-DCA), 1,1,1-trichloroethane (1,1,1-TCA), and tetrachloroethylene (PCE); chromium Cr), lead (Pb), and nickel (Ni)] were found during the tank removal (ERM, 1990a).

Four groundwater monitor wells (MW-1, MW-2, MW-3, and MW-4) were installed to monitor groundwater conditions. The soil samples from the boring for MW-1 contained TEPH-d in the three samples collected (Table 1) between 5.5 ft and 10.5 ft below grade (fbg). The 10.5 fbg sample also contained benzene, xylenes, 1,1-DCA, 1,2-DCA, 1,1,1-TCA, and PCE. The soil sample collected 16 fbg in the boring for MW-2 contained ethyl-benzene and xylenes. Soil samples from the other two soil borings for monitor wells MW-3 and MW-4 were below method detection limits (MDLs) for the compounds tested for (Table 2). The groundwater sample from monitor well MW-1 contained benzene, 1,1-DCA, 1,1,1-TCA, trichloroethylene (TCE), and PCE, while the groundwater samples from MW-2 and MW-3 were below method detection limits (MDLs) for all compounds tested for. The groundwater sample from monitor well MW-4 contained TCE (ERM, 1990a). ERM reported a apparent mounding of groundwater in the vicinity of the former tankpit. They attributed this mounding to infiltration of surface water through the tankpit backfill.

Based on the results of soil sampling and groundwater results, Firestone decided to remove additional soil from the excavation in an attempt to remove the source. During this removal, monitor well MW-1 was destroyed. Results of confirmatory soil sampling indicated that TEPH-d was only detected in one of the sidewall samples (CS-3) at 8 fbg at 3.8 ppm (ERM, 1990b).

Recommendations were made to perform quarterly groundwater monitoring for one year and then to re-evaluate the site conditions (ERM, 1990b). According to County personnel (Susan Hugo)¹ this work was never done.

ProTech performed a Phase I - Environmental Site Assessment (Phase I) in April 1998 on the property for K/M prior to their purchase of the property. During this task, ProTech located two of the three remaining groundwater monitor wells (MW-3 and MW-4), while well MW-2 was not evident during site reconnaissance activities. ProTech also identified 5 hydraulic lifts (Figure 2) that were present in the garage portion of the building (ProTech, 1998a).

After review of the Phase I report, K/M instructed ProTech to develop and sample the two groundwater monitor wells (MW-3 and MW-4). In April 1998, ProTech developed the two groundwater monitor wells and collected groundwater samples for analysis for total petroleum hydrocarbons, characterized as gasoline (TPH-g), TEPH-d, TEPH, characterized as kerosene (TEPH-k), TEPH, characterized as motor oil (TEPH-mo), BTEX, O&G, and volatile organic compounds (VOCs). Results of the groundwater analyses (Figure 3) indicated that monitor well MW-3 was

¹ Personal communication with Susan Hugo, June 1998.

below MDLs for the compounds tested for, while monitor well MW-4 contained 1,1-DCA, cis-1,2-Dichloroethylene (cis-1,2-DCE), and PCE (ProTech, 1998b) at levels of interest. With the Phase I report and these groundwater results in-hand, K/M purchased the property.

In September 1998, K/M began removal of the 5 hydraulic lifts. ProTech witnessed the removal of all 5 lifts and collected soil samples from three of the pits (Pit #s 1, 4, and 5) where the rams were compromised and/or soil staining was evident. The soil samples were collected after soil was excavated to a point where contamination was no longer evident. The analyses, which were specified by ACHA, were for total extractable petroleum hydrocarbons, characterized as hydraulic oil (TEPH-ho), VOCs, and LUFT Manual metals. Results from two of the pits (Pit #s 4, and 5) were below the MDLs of the analyses or present below regulated concentrations. Results from the third pit (Pit #1) indicated that TEPH-ho was detected at 500 ppm. Additional soil was excavated from this pit (approximately 3 ft below the groundwater table) and a second soil sample was collected for analysis. Results (Figure 2) indicated that TEPH-ho was still present at 1,400 ppm (ProTech, 1998c).

Results of soil samples were collected from "likely dirty" stockpiled soil indicated that petroleum hydrocarbons (TEPH-ho) required regulated disposal. This stockpiled soil was disposed of as a Class II - designated waste at Forward Landfill (ProTech, 1998c).

The County agreed that the "likely clean" soil, which came from the upper 3 feet of material in each pit and exhibited no evidence of contamination, could be re-used on-site as backfill above the water table. They further agreed that further assessment of the site would be through groundwater monitoring and the installation of two additional groundwater monitor wells (ACHA, 1999).

ProTech prepared a Workplan for the installation of the two additional groundwater monitor wells that the County requested plus a survey for top-of-casing (TOC) elevations of the new and existing wells (ProTech, 1999a).

Two groundwater monitor wells (MW-5 and MW-6) were installed March 1999. Soil samples were collected from the two soil borings for analysis for petroleum products, aromatic hydrocarbons, the fuel additive: methyl tert-butyl ether (MTBE), volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs). The results indicated that only the soil samples from the boring for well MW-6 contained any compounds analyzed for above their method detection limits (MDLs). The only compound found was TEPH-d at 1.9 ppm (8 fbg) and 3.8 ppm (18 fbg). The two new wells (MW-5 and MW-6) were developed and purged, and the existing two wells (MW-3 and MW-4) were purged prior to collecting groundwater samples. The results of groundwater sampling indicate that

none of the wells contain measurable petroleum hydrocarbons (TPH-g or TEPH-d), aromatic hydrocarbons (BTEX), MTBE, or SVOCs. All four wells contained 1,1-DCA, and PCE, while wells MW-5 and MW-6 also contained chloroform, and TCE, and well MW-4 also contained 1,1-DCE, cis-1,2-DCE, and vinyl chloride.² California maximum contaminant levels (MCLs) have been exceeded for 1,1-DCA, cis-1,2-DCE, PCE, and vinyl chloride. The four monitor wells (MW3 through MW-6) were surveyed TOC elevations. Monitor well MW-2 was not located during this field effort. ProTech recommended that the TPH-g, TEPH-d, BTEX, and MTBE, be removed from the analyte list for quarterly monitoring (ProTech, 1999b).

The County reviewed the ProTech report and prepared a comment letter. In this letter they expressed concern about:

- the concentrations of the VOCs that exceed California MCLs.
- the status of well MW-2, and
- the limits of the former waste oil tank excavation with regard to wells MW-5 and MW-6.

They directed K/M to:

- continue quarterly groundwater monitoring, with approval to remove TPH-g, TEPH-d, BTEX, and MTBE from the analyte list;
- locate MW-2 or its remnants prior to resurfacing of the parking lot; and
- plot the limits of the excavation on the site plan (ACHA, 1999b).

ProTech requested in a letter that the drill cuttings be used on-site as fill material due to the lack of compounds of concern (ProTech, 1999c). The County agreed to allow this re-use of soil cuttings (ACHA, 1999b).

The second quarter of groundwater monitoring was performed on 16 June 1999. During reconnaissance and setup for sampling the four wells (MW-3, MW-4, MW-5, and MW-6) we discovered well MW-2. It had been buried under the planter along the north end of the building. We sampled all five wells. Well MW-2 did not contain any of the compounds tested for. The other four wells (MW-3, MW-4, MW-5, and MW-6) contained 1,1-DCA, and PCE, while wells MW-5 and MW-6 also contained chloroform, and TCE. Well MW-4 also contained 1,1-DCE, cis-1,2-DCE, and vinyl chloride. California maximum contaminant levels (MCLs) continue to be exceeded in well MW-4 for 1,1-DCA, cis-1,2-DCE, PCE, TCE and vinyl chloride, and in well MW-5 for 1,1-DCA. Well

² 1,1-DCA was improperly reported as 1,2-DCA in the April 1999 well installation report. All data tables have been corrected for this report. 1,2-DCA has not been detected by ProTech in its three sampling efforts, while 1,1-DCA has.

MW-2 was surveyed for TOC elevation. ProTech requested verbally that SVOCs be removed from the analyte list for quarterly monitoring since they had not been detected in previous monitoring events (ProTech, 1999c).

The County reviewed the ProTech QMR, including a proposed risk management assessment to close the site, and prepared a comment letter (ACHA, 1999c). In this letter they expressed concern:

- that a "risk management plan (RMP) may essentially allow for a reduced frequency in groundwater monitoring, however it would not include closure for the site" based on fact that concentrations of VOCs continue to exceed California MCLs.
- that "analysis for SVOCs may be discontinued due to Non Detect results from past sampling event. It appears that you have already taken the initiative to discontinue the analysis for SVOCs, based on the fact that this monitoring event did not include the analysis for these constituents";
- "future groundwater monitoring reports, and any additional reports or workplans, shall include an attached cover letter, signed by a representative of your company (Kelly-Moore) acknowledging that the company has read the report and agrees to any recommendations or proposals; and
- that future groundwater monitoring reports include copies of field data sheets showing levels of turbidity, noting odors, percent recharge in wells hen samples were collected, pH, temperature, etc."

This report presents the results of the third quarter of groundwater monitoring as requested by County. ProTech has modified its program to follow the requests made by the County.

2.0 - SCOPE-OF-WORK

2.1 - INTRODUCTION

On 15 September 1999, ProTech performed the third quarterly monitoring at the site. The scope-of-work performed is outlined below:

1. Measure the depth-to-groundwater (DTW) in each of the groundwater monitor wells;
2. Purge each well prior to collecting a groundwater sample for analysis;
3. Analyze each of the groundwater samples for VOCs; and
4. Prepare a quarterly groundwater monitoring report that includes the results of groundwater DTW measurements, and groundwater sample analysis. The report will include:
 - Tables showing tabulated DTW, development and purge parameters, groundwater elevations, and analytical results;
 - Figures illustrating groundwater flow direction and analytical results; and
 - Appendices including laboratory reports and chain-of-custody forms.

The fieldwork and laboratory analysis tasks are complete. This document represents the report task of the project.

2.2 - GROUNDWATER MEASUREMENTS

On 15 September 1999, we measured the total depth (TD) of each of the wells to determine their status prior to purging for analysis. Monitor well MW-2 measured a TD of 14.53 feet below grade (fbg), MW-3 measured a TD of 14.43 fbg, MW-4 measured a TD of 14.68, MW-5 measured a TD of 20.08 fbg, and MW-6 measured a TD of 19.84. The TDs for the monitor wells were the same as those previously measured (June 1999).

On 15 September 1999, ProTech also measured the depth-to-water (DTW) in each of the groundwater monitor wells (MW-2 through, MW-6). The results of these measurements are tabulated on Table 1, along with the converted groundwater elevations. The groundwater gradient was calculated to range from 0.02 to 0.04, depending on position relative to the wells. Figure 3 illustrates the current groundwater elevations and estimated flow direction, while Figure 4 illustrates

the historical groundwater elevations over time in each of the wells.³ The groundwater elevations fell an average of 0.574 feet (0.89 feet for MW-2, 0.78 feet for MW-3, 0.45 feet for MW-4, 0.0.29 feet for MW-5, and 0.46 feet for MW-6). This drop in elevation is not uncommon based on the time of year: falling water table during summer and fall and rising water table during winter and spring.

2.3 - WELL PURGING AND SAMPLING

The total wellbore water volume was calculated using the DTW and TD measurements to calculate the wellbore volume of each well so we could determine the volume of groundwater that would need to be removed. Usually it is between 3 and 10 wellbore volumes. These calculations are shown on Table 2. These wells are very low producers and removal of more than two wellbore volumes is very difficult, as shown on Table 2.

The wells were purged by using either a downhole submersible pump (MW-2, MW-5, and MW-6) or a peristaltic pump (MW-3 and MW-4). During purging, the parameters: pH, conductivity, and temperature were monitored, while clarity or turbidity of water was observed. They were monitored at the commencement of pumping, after the well had dewatered.⁴ The parameter testing results are shown on Table 3. ProTech continued to compare the parameter testing from all monitoring events. This comparison, which is shown on Table 4, indicates that the measured parameters are not stabilizing during purging, most likely due to the low-flow nature of the wells and the small amount of groundwater removed during purging (between 1.16 and 1.97 wellbore volumes).⁵

While presented in ascending numerical order below, the wells were purged in order from historically cleanest to historically dirtiest to reduce the potential of cross-contamination. The submersible pump

³ Graphs of historical groundwater levels and historical chemical data are drawn to show trends and patterns, and they are used as a tool to explain anomalies in data.

⁴ Once the well has dewatered, it is allowed to recover for approximately 1 minute to allow sufficient water to enter the well for collection for parameter testing.

⁵ Very little study has been performed on low-flow wells and parameter measurements. Current industry practice calls for either the removal of between 3 and 10 wellbore volumes or the measurement and stabilization of pH, conductivity, and temperature, but this is for wells capable of producing sufficient water to avoid dewatering. For low-flow wells that dewater, industry practice is purging the well dry and allowing groundwater to recover to approximately 80% of its initial or static water level.

and associated electrical cord were decontaminated in a triple rinse setup⁶ between wells and new tubing was used in each well.⁷ The peristaltic pump does not come directly in contact with the groundwater so only the tubing was changed. The order of submersible pump purging and sampling was MW-2, MW-6, and MW-5. The order of peristaltic pump purging was MW-3, and MW-4.

2.3.1 - Monitor Well MW-2

Approximately 4 gallons (1.16 wellbore volumes) was removed from this well during purging. The pump was turned on and left running until the well dewatered. At the time the pump was started some fine sand was removed, but it cleared up in less than one minute. The purgewater was collected in a 55 gallon drum on-site for temporary storage pending disposal.

Once purged and allowed to recover to approximately 80% of its static water level, the groundwater was sampled using a 3 foot, dedicated Teflon bailer.⁸ The water collected in the bailer was transferred to the appropriate sample containers (3 40-mil VOA vials). The containers were sealed, checked for air bubbles, labeled, and placed on ice pending transport to ChromaLab, Inc. of Pleasanton, California, a California-certified laboratory (ChromaLab) for analysis.

2.3.2 - Monitor Well MW-3

Approximately 4.5 gallons (1.21 wellbore volumes) was removed from this well during purging. The pump was turned on and left running until the well dewatered. At the time the pump was started some fine sand was removed, but it cleared up in less than one minute. The purgewater was collected in a 55 gallon drum on-site for temporary storage pending disposal.

Once purged and allowed to recover to approximately 80% of its static water level, the groundwater was sampled using a 3 foot, dedicated Teflon bailer. The water collected in the bailer was transferred to the appropriate sample containers (3 40-mil VOA vials). The containers were sealed, checked for

⁶ A triple rinse setup is three buckets, the first with water and TSP, the second with water, and the third with DI water. The pump is soaked and scrubbed with a scrub brush in the first bucket to remove contaminants. It is then rinsed vigorously in the second bucket, and rinsed again in the third bucket. The buckets are rinsed and refilled after each decontamination event.

⁷ The tubing for each well is decontaminated using the triple rinse setup and then bagged for re-use in the designated well during future quarterly sampling.

⁸ The bailer for each well is decontaminated using the triple rinse setup and then bagged for re-use in the designated well during future quarterly sampling.

air bubbles, labeled, and placed on ice pending transport to ChromaLab for analysis.

2.3.3 - Monitor Well MW-4

Approximately 5 gallons (1.39 wellbore volumes) was removed from this well during purging. The pump was turned on and left running until the well dewatered. At the time the pump was started some fine sand was removed, but it cleared up in less than one minute. The purgewater was collected in a 55 gallon drum on-site for temporary storage pending disposal.

Once purged and allowed to recover to approximately 80% of its static water level, the groundwater was sampled using a 3 foot, dedicated Teflon bailer. The water collected in the bailer was transferred to the appropriate sample containers (3 40-mil VOA vials). The containers were sealed, checked for air bubbles, labeled, and placed on ice pending transport to ChromaLab for analysis.

2.3.4 - Monitor Well MW-5

Approximately 12 gallons (1.69 wellbore volumes) was removed from this well during purging. The pump was turned on and left running until the well dewatered. At the time the pump was started some fine sand was removed, but it cleared up in less than one minute. The purgewater was collected in a 55 gallon drum on-site for temporary storage pending disposal.

Once purged and allowed to recover to approximately 80% of its static water level, the groundwater was sampled using a 3 foot, dedicated Teflon bailer. The water collected in the bailer was transferred to the appropriate sample containers (3 40-mil VOA vials). The containers were sealed, checked for air bubbles, labeled, and placed on ice pending transport to ChromaLab for analysis.

2.3.5 - Monitor Well MW-6

Approximately 13 gallons (1.97 wellbore volumes) was removed from this well during purging. The pump was turned on and left running until the well dewatered. At the time the pump was started some fine sand was removed, but it cleared up in less than one minute. The purgewater was collected in a 55 gallon drum on-site for temporary storage pending disposal.

Once purged and allowed to recover to approximately 80% of its static water level, the groundwater was sampled using a 3 foot, dedicated Teflon bailer. The water collected in the bailer was transferred to the appropriate sample containers (3 40-mil VOA vials). The containers were sealed, checked for

bubbles, labeled, and placed on ice pending transport to ChromaLab for analysis.

2.4 - ANALYTICAL RESULTS

The groundwater samples were transported to ChromaLab by a ChromaLab courier on 16 September 1999 for analysis. The groundwater samples were analyzed for VOCs. The results are discussed below, and tabulated in Table 1. Figures 5 through 8 illustrate the historical results for monitor wells MW-3 through MW-6, respectively. No figures have been prepared for MW-2 since it was below method detection limits (MDLs) for the compounds tested for.

2.4.1 - Monitor Well MW-2

All compounds tested for were below their respective MDLs during this sampling and analysis effort.

2.4.2 - Monitor Well MW-3

The results of the VOCs analyses indicated that 1,1-DCA was detected at 1.4 ppb, PCE was detected at 1.6 ppb, and TCE was detected at 1.9 ppb. All other compounds tested for were below their MDLs.

2.4.3 - Monitor Well MW-4

The results of the VOCs analyses indicated that 1,1-DCA was detected at 61 ppb, 1,1-DCE was detected at 0.74 ppb, cis-1,2-DCE was detected at 18 ppb, PCE was detected at 16 ppb, TCE was detected at 4.4 ppb, and vinyl chloride was detected at 0.91 ppb. All other compounds tested for were below their MDLs.

2.4.4 - Monitor Well MW-5

The results of the VOCs analyses indicated that 1,1-DCA was detected at 6.4 ppb, PCE was detected at 1.8 ppb, and TCE was detected at 1.8 ppb. All other compounds tested for were below their MDLs.

2.4.5 - Monitor Well MW-6

The results of the VOCs analyses indicated that 1,1-DCA was detected at 1.8 ppb, PCE was detected at 6.2 ppb, and TCE was detected at 0.87 ppb. All other compounds tested for were below their MDLs.

2.5 - PURGEWATER DISPOSAL

Approximately 250 gallons purgewater was transported by Foss Environmental of Alameda to Seaport Environmental in Redwood City for recycling. The non-hazardous waste manifest is included in Appendix 3.

3.0 - OBSERVATIONS AND RECOMMENDATIONS

3.1 - OBSERVATIONS

Groundwater flow direction continues to be to the south-southwest with groundwater elevation falling in all the wells. Flow direction also continues to shift as it crosses the site - a southerly direction at the north, near MW-2 and MW-3, and southeasterly near MW-4, and MW-5. Well MW-6 appears to be an anomaly as its groundwater elevation is lower than both MW-2 and MW-5, which it sits between. The calculated gradient ranged from 0.02, near MW-2 and MW-3, to 0.04 in the vicinity of MW-4, and MW-5.

During purging, small amounts of sediment are drawn from the wells in the water stream. These sediments are a fine-grained sand that is typically seen during well purging activities due to the suction placed on the well screen and the formation. Given the nature of sand, there is no reason to be concerned that its removal during purging would affect the results of groundwater analyses by sorption of chemicals onto the sand grains. The amount of sand removed from the wells was reduced by not surging them, and by the reduction of wellbore volumes removed.

The parameters of pH, temperature, and conductivity that are checked during well purging are not stabilizing most probably due to the low-flow nature of the wells. This does not appear uncommon in low-flow wells (Nielsen, 1991), but little study has been performed and no clear scientific protocol has been established for developing low-flow wells other than purging dry and sampling when water levels rise to approximately 80% of static conditions. ProTech will continue to monitor these parameters during purging to see if any pattern develops.

Results of groundwater sample analysis indicate that 1,1-DCA, PCE and TCE continue to be detected above their MDLs in wells MW-3 through MW-6. Chloroform was again detected in well MW-5, but not in MW-6, while 1,1-DCE, cis-1,2-DCE, and vinyl chloride continue to be detected in well MW-4.

The concentrations seen during this groundwater monitoring effort indicate that there is no relative change in concentrations from the previous groundwater monitoring (June 1999) to now. All results were within the same order-of-magnitude as June 1999, and virtually all dropped within that magnitude.

1,1-DCA (61 ppb), cis-1,2-DCE (18 ppb), PCE (16 ppb), and vinyl chloride (0.91 ppb) were again

detected above their California MCLs (1,1-DCA - 5 ppb, cis-1,2-DCE - 6 ppb, PCE - 5 ppb, TCE - 5 ppb, and vinyl chloride - 0.5 ppb) in MW-4, while PCE was continues to be detected above its California MCL in MW-6.

3.2 - RECOMMENDATIONS

We recommend continued quarterly monitoring of the five wells with re-evaluation of continued quarterly monitoring at the end of the year.

The next quarterly monitoring is tentatively scheduled for the week of 13 December 1999.

This report should be sent to:

Juliet Shin, HazMat Specialist
Alameda County Health Agency - Department of Environmental Health
1131 Harbor Bay Parkway, 2nd floor
Alameda, CA 94502

4.0 - REFERENCES

Alameda County Health Agency, 1999a, *Workplan Approval Letter*, 2 March 1999.

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_____, 1999b, *Technical Report for Groundwater Monitor Well Installation, Development, and Sampling and Analysis*, Kelly-Moore Paint Store, 969 San Pablo Avenue, Albany, California, April, 1999.

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Table 1 - Groundwater Elevation Measurement and Analytical Results

Kelly-Moore Paint Company
 969 San Pablo Avenue, Albany, CA
 ProTech Project #107-OH99

WELL #	DATE	TOC	DTW	GW-ELEV	Chlfrm	1,1-DCA	1,1-DCE	c1,2-DCE	PCE	TCE	VC
MW-2	16-Jun-99	42.14	8.36	33.78	ND	ND	ND	ND	ND	ND	ND
	15-Sep-99	42.14	9.25	32.89	ND	ND	ND	ND	ND	ND	ND
MW-3	21-Apr-98	41.49	7.33	34.16	ND	ND	ND	ND	ND	ND	ND
	29-Mar-99	41.49	5.60	35.89	ND	1.20	ND	ND	1.70	1.60	ND
	16-Jun-99	41.49	7.95	33.54	ND	1.30	ND	ND	1.70	2.30	ND
	15-Sep-99	41.49	8.73	32.76	ND	1.40	ND	ND	1.60	1.90	ND
MW-4	21-Apr-98	41.15	7.52	33.63	ND	34.00	ND	5.30	3.60	ND	ND
	29-Mar-99	41.15	7.50	33.65	ND	84.00	1.50	25.00	18.00	6.50	3.10
	16-Jun-99	41.15	8.73	32.42	ND	76.00	1.30	23.00	20.00	6.40	2.40
	15-Sep-99	41.15	9.18	31.97	ND	61.00	0.74	18.00	16.00	4.40	0.91
MW-5	29-Mar-99	41.71	8.14	33.57	0.97	5.30	ND	ND	1.60	1.60	ND
	16-Jun-99	41.71	8.91	32.80	0.63	4.80	ND	ND	1.50	1.80	ND
	15-Sep-99	41.71	9.20	32.51	ND	6.40	ND	ND	1.80	1.80	ND
MW-6	29-Mar-99	42.04	7.74	34.30	0.78	1.40	ND	ND	6.80	0.80	ND
	16-Jun-99	42.04	9.25	32.79	ND	1.40	ND	ND	5.30	0.80	ND
	15-Sep-99	42.04	9.71	32.33	ND	1.80	ND	ND	6.20	0.87	ND

Table 1 - Groundwater Elevation Measurement and Analytical Results

Kelly-Moore Paint Company
 969 San Pablo Avenue, Albany, CA
 ProTech Project #107-OH99

WELL #	DATE	TOC	DTW	GW-ELEV	Chlfrm	1,1-DCA	1,1-DCE	c1,2-DCE	PCE	TCE	VC
--------	------	-----	-----	---------	--------	---------	---------	----------	-----	-----	----

- Notes:**
- TOC = top of casing elevation (ft above mean sea level - (ft-amsl))
 - DTW = depth to water (ft below TOC)
 - GW-ELEV = groundwater elevation (ft-amsl)
 - All results reported in parts-per-billion (ppb)
 - MDL = method detection limit
 - MCL = maximum contaminant level (EPA and California cited)
 - Chlfrm = Chloroform (MDL-0.5 ppb) (MCL-80 ppb)
 - 1,1-DCA = 1,1-dichloroethane (MDL-0.5 ppb) (MCL-5 ppb [California])
 - 1,1-DCE = 1,1-dichloroethylene (MDL-0.5 ppb) (MCL-7 ppb [EPA] 6 ppb [California])
 - c1,2-DCE = cis 1,2-dichloroethylene (MDL-0.5 ppb) (MCL-70 ppb [EPA] 6 ppb [California])
 - PCE = tetrachloroethylene (MDL-0.5 ppb) (MCL-5 ppb [EPA & California])
 - TCE = trichloroethylene (MDL-0.5 ppb) (MCL-5 ppb [EPA & California])
 - VC = vinyl chloride (MDL-0.5 ppb) (MCL-2 ppb [EPA] 0.5 ppb [California])
 - NA = not analyzed for
 - ND = not detected above method detection limit
 - Bold =greater than California MCL**

Table 2 - Wellbore Volume Calculations

Kelly-Moore Paint company
969 San Pablo Avenue, Albany, CA
ProTech Project #107-OH99
Sampling Date: 9/15/99

Well #	DTW	TD	ΔH	Well R	Well R ²	WV (ft ³)	WV (gal)	VR (g)	TWV
MW-2	9.25	14.53	5.28	0.17	0.03	0.46	3.44	4.00	1.16
MW-3	8.73	14.43	5.70	0.17	0.03	0.50	3.72	4.50	1.21
MW-4	9.18	14.68	5.50	0.17	0.03	0.48	3.59	5.00	1.39
MW-5	9.2	20.08	10.88	0.17	0.03	0.95	7.10	12.00	1.69
MW-6	9.71	19.84	10.13	0.17	0.03	0.88	6.61	13.00	1.97

Notes: Wellbore volume formula used - $\pi R^2 H$; where H is ΔH
DTW = depth-to water (ft below grade)
TD = total depth of well
 ΔH = water column thickness (ft)
Well R = well radius (ft)
Well R² = well radius squared (ft²)
WV (ft³) = wellbore volume (ft³)
WV (gal) = wellbore volume (gallons); where 1 ft³ = 7.48 gallons
VR (gal) = volume removed during purging (gallons)
TWV = total wellbore volumes removed during purging

Table 3 - Parameter Testing Results

Kelly-Moore Paint company
969 San Pablo Avenue, Albany, CA
ProTech Project #107-OH99
Sampling Date: 9/15/99

Well #	Interval ⁽¹⁾	~Gals	pH	Cond	Temp
MW-2	Start	0.00	7.56	1.44	63.50
	End	4.00	7.56	1.44	63.00
MW-3	Start	0.00	7.88	1.43	64.90
	End	4.50	7.34	1.40	65.00
MW-4	Start	0.00	7.45	1.41	64.20
	End	5.00	7.42	1.38	64.60
MW-5	Start	0.00	7.35	1.41	65.80
	End	12.00	7.24	1.42	65.70
MW-6	Start	0.00	7.40	1.34	63.40
	End	13.00	7.7	1.31	64.20

Notes: ~Gals = approximate gallons removed at time of measurement
pH in standard units
Cond = Conductivity ($\mu\text{mho/cm}$)
Temp = temperature ($^{\circ}\text{F}$)
(1) = wells dewatered during pumping, were then allowed to recover for sampling

Table 4 - Comparison of Parameter Testing Results

Kelly-Moore Paint company
 969 San Pablo Avenue, Albany, CA
 ProTech Project #107-OH99

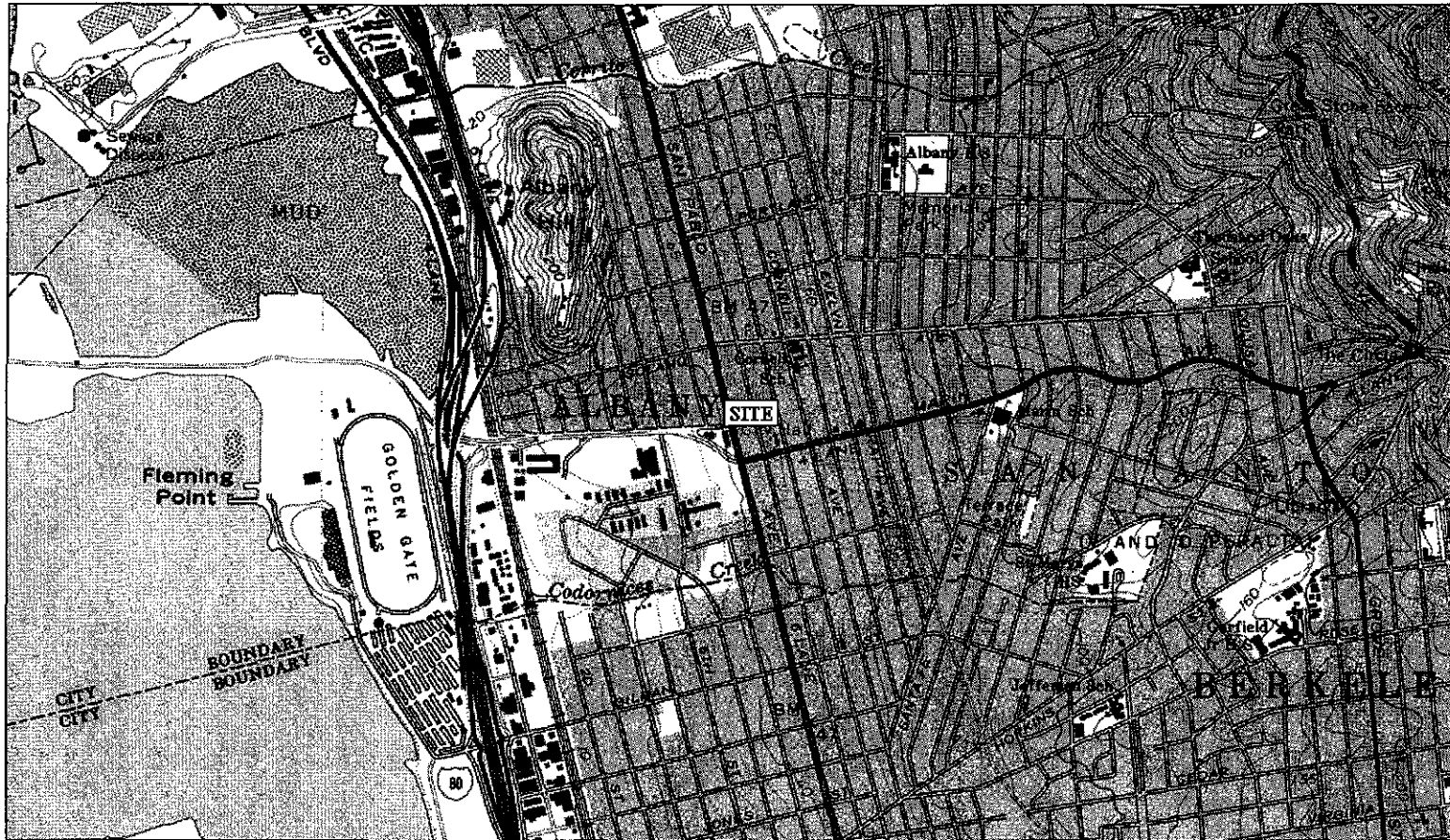
Well #	GR	Date	pH	ΔpH	Cond	ΔCond	Temp	ΔTemp
MW-2	0.00	16-Jun-1999	6.88		1.26		62.30	
	5.00		6.94	0.06	1.28	0.02	63.00	0.70
	6.00		6.78	0.16	1.30	0.02	62.30	0.70
	0.00	15-Sep-1999	7.56		1.44		63.50	
	4.00		7.52	0.04	1.44	0.00	63.00	0.50
	MW-3	0.00	29-Mar-1999	6.97		1.32		58.40
5.00		6.95		0.02	1.33	0.01	57.40	1.00
7.00		6.81		0.14	1.34	0.01	58.00	0.60
0.00		16-Jun-1999	6.68		1.27		62.80	
5.00			6.88	0.20	1.37	0.10	63.90	1.10
7.00			6.96	0.08	1.35	0.02	64.00	0.10
MW-4	0.00	15-Sep-1999	7.88		1.43		64.90	
	4.50		7.34	0.54	1.40	0.03	65.00	0.10
	29-Mar-1999	0.00	6.40		1.35		58.40	
		5.00	6.41	0.01	1.34	0.01	59.40	1.00
		6.00	6.38	0.03	1.34	0.00	60.00	0.60
	16-Jun-1999	0.00	6.34		1.26		62.00	
5.00		6.54	0.20	1.27	0.01	63.40	1.40	
6.00		6.39	0.15	1.28	0.01	64.20	0.80	
15-Sep-1999	0.00	7.45		1.41		64.20		
	5.00	7.42	0.03	1.38	0.03	64.60	0.40	

Table 4 - Comparison of Parameter Testing Results

Kelly-Moore Paint company
 969 San Pablo Avenue, Albany, CA
 ProTech Project #107-OH99

Well #	GR	Date	pH	ΔpH	Cond	ΔCond	Temp	ΔTemp	
MW-5	0.00	29-Mar-1999	6.89		1.38		62.50		
	8.00		6.90	0.01	1.30	0.08	66.00	3.50	
	15.00		6.70	0.20	1.39	0.09	66.40	0.40	
	25.00		6.75	0.05	1.38	0.01	66.70	0.30	
	0.00	16-Jun-1999	7.14		1.27		61.50		
	17.00		6.85	0.29	1.44	0.17	62.30	0.80	
	25.00		6.86	0.01	1.31	0.13	62.90	0.60	
	31.00		6.84	0.02	1.32	0.01	62.60	0.30	
	0.00	15-Sep-1999	7.35		1.41		65.80		
	12.00		7.24	0.11	1.42	0.01	65.70	0.10	
	MW-6	0.00	29-Mar-1999	7.24		1.19		66.40	
		8.00		7.32	0.08	1.30	0.11	63.80	2.60
17.00		7.31		0.01	1.27	0.03	63.20	0.60	
28.00		7.36		0.05	1.26	0.01	63.60	0.40	
0.00		16-Jun-1999	7.29		1.28		62.20		
14.00			7.55	0.26	1.26	0.02	61.80	0.40	
29.00			7.48	0.07	1.29	0.03	63.00	1.20	
0.00		15-Sep-1999	7.40		1.34		63.40		
13.00			7.73	0.33	1.31	0.03	64.20	0.80	

Notes: GR = approximate gallons removed at time of measurement
 pH in standard units
 Cond = Conductivity (μmho/cm)
 Temp = temperature (° F)



0 1/2 MILE
 0 1000 FEET 0 500m 1000m
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ProTech Consulting & Engineering

Job No.	990103	
Date	23 April 1999	
Drawn by	WL	
Rev	CHT	Apprvd WL

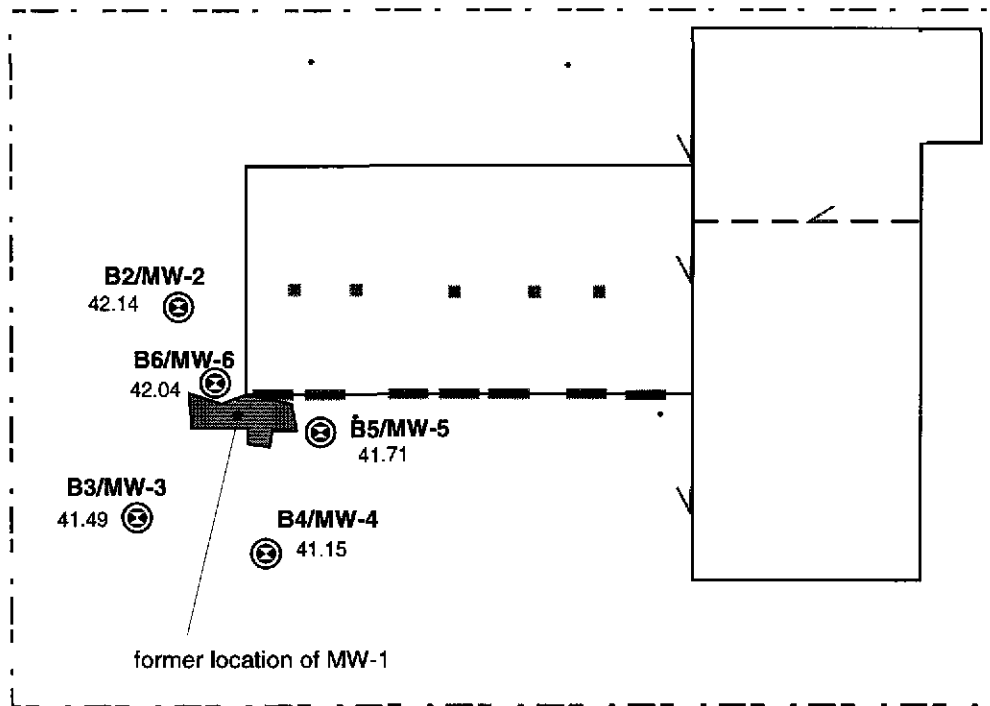
Site Location Map
 Groundwater Sampling Program
 Kelly-Moore Paint Company
 969 San Pablo Avenue, Albany, CA

Project



Figure

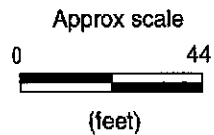
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Legend

- Property Boundary
- Boring/Groundwater Monitoring Well ID# w/TOC elevation (ft-AMSL)
- Doorway
- Sewer Cleanout
- Garage Doors
- Former hydraulic Lifts
- Former waste oil tank excavation limits

San Pablo Avenue



ProTech Consulting & Engineering

Job No.	990103
Date	15 Sept 1999
Drawn by	WL
Rev	CHT
Apprvd	WL

Site Plan w/ Well Locations	Project
Groundwater Sampling Program	
Kelly-Moore Paint Company	
969 San Pablo Avenue, Albany, California	

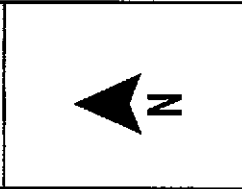
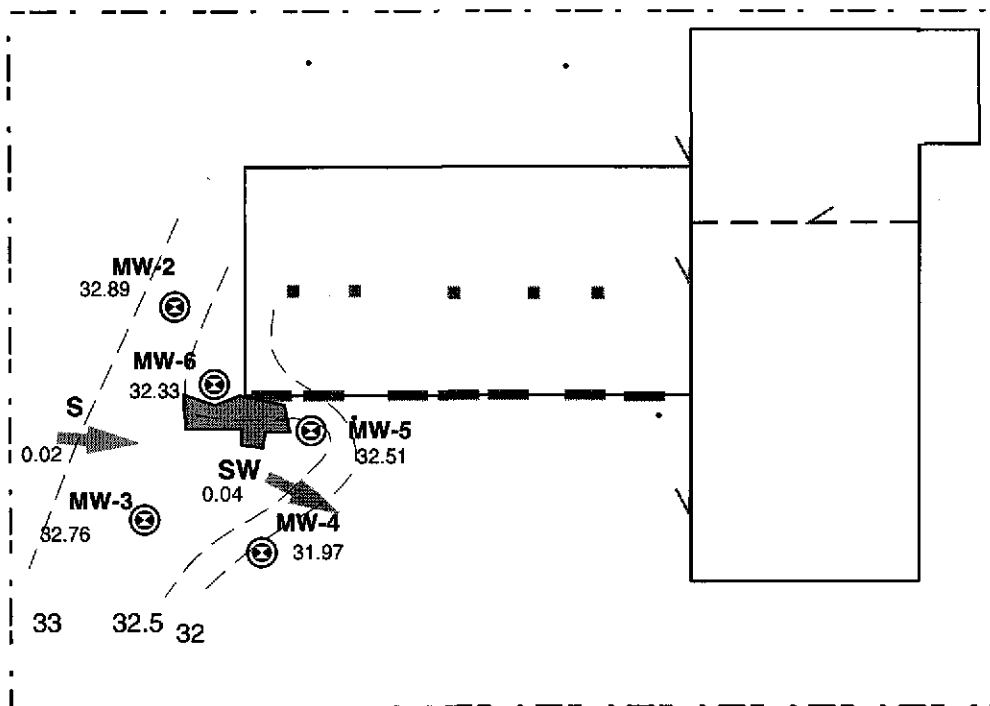
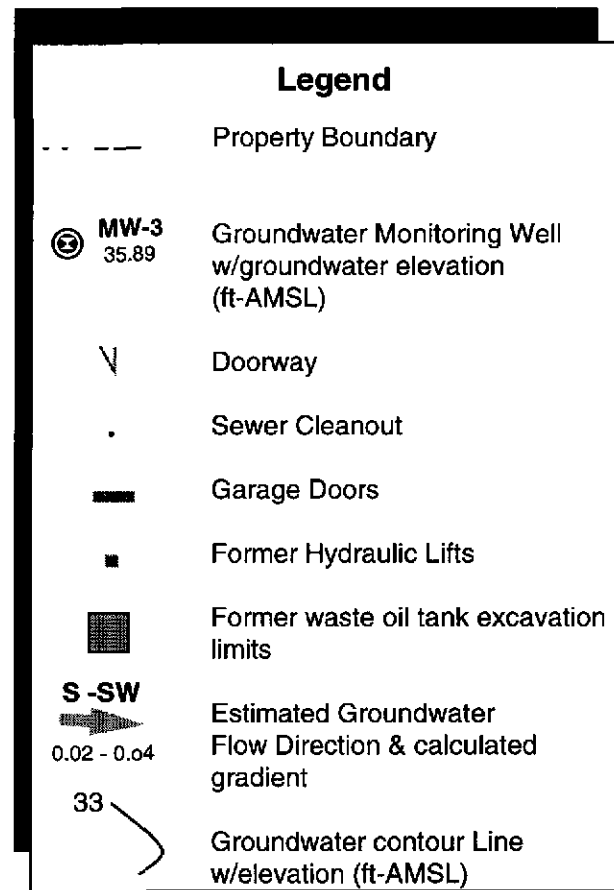
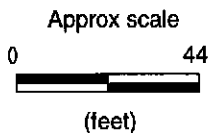


Figure
2



San Pablo Avenue



ProTech Consulting & Engineering

Job No.	990103
Date	15 Sept 1999
Drawn by	WL
Rev	CHT
Apprvd	WL

Site Plan w/ Groundwater Elevations

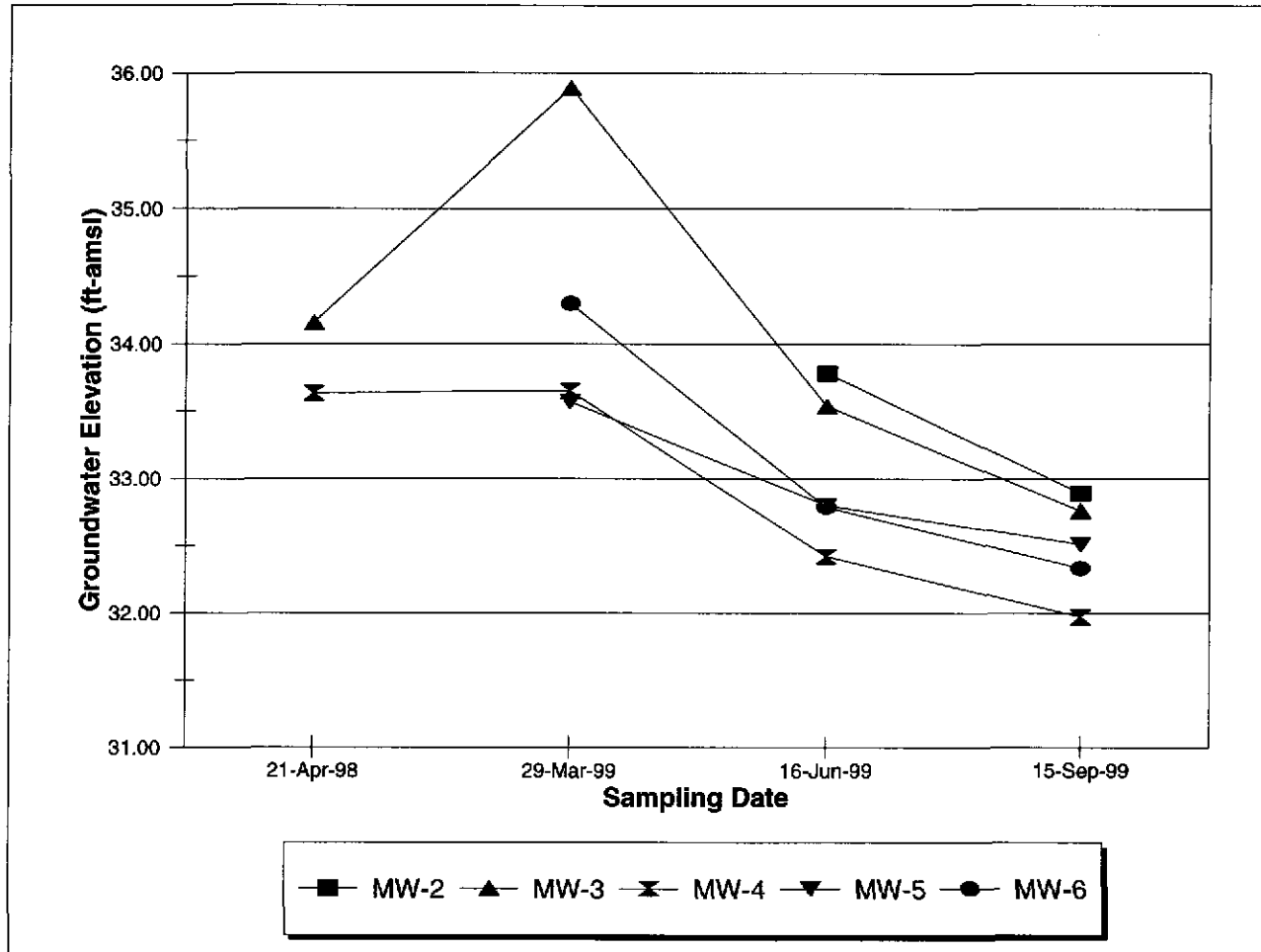
Groundwater Sampling Program
 Kelly-Moore Paint Company
 969 San Pablo Avenue, Albany, California

Project



Figure

3



ProTech Consulting & Engineering

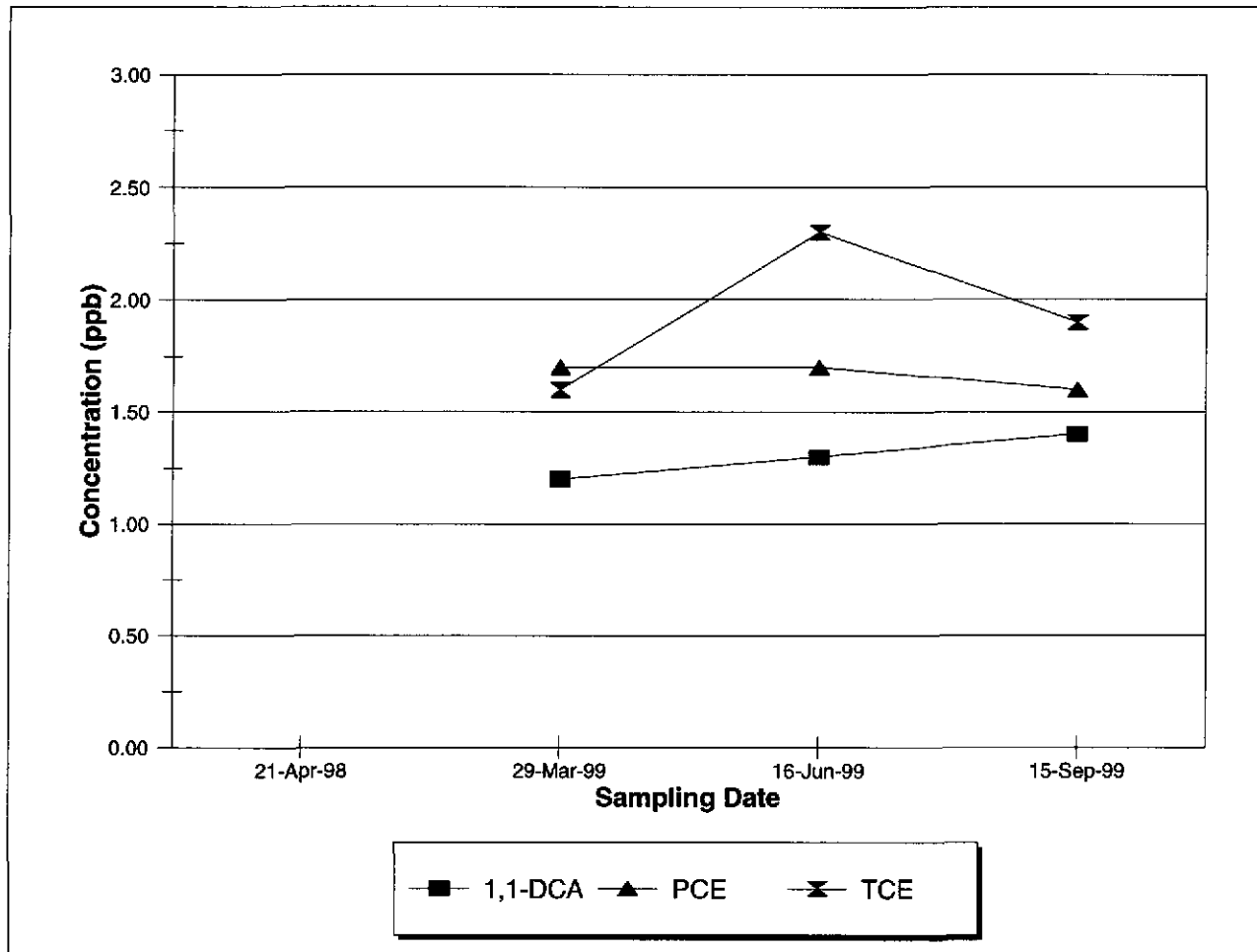
Job No.	990103
Date	15 Sept 1999
Drawn by	WL
Rev	CHT
Apprvd	WL

Historic Groundwater Elevations
 Groundwater Sampling Program
 Kelly-Moore Paint Company
 969 San Pablo Avenue, Albany, California

Project

Figure

4



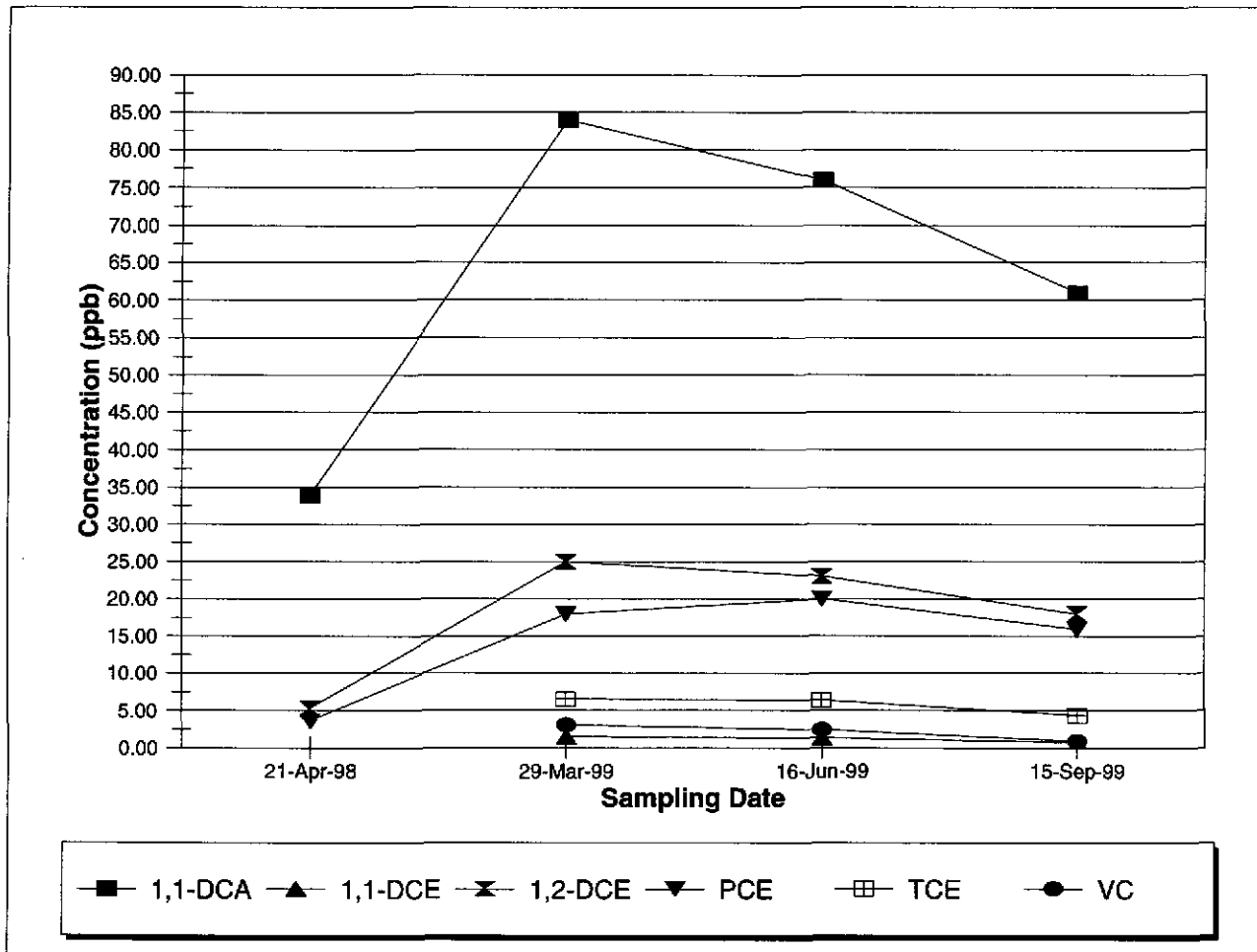
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Job No.	990103
Date	15 Sept 1999
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Rev	CHT
Apprvd	WL

Historic VOC Results - MW-3
 Groundwater Sampling Program
 Kelly-Moore Paint Company
 969 San Pablo Avenue, Albany, California

Project

Figure
5



ProTech Consulting & Engineering

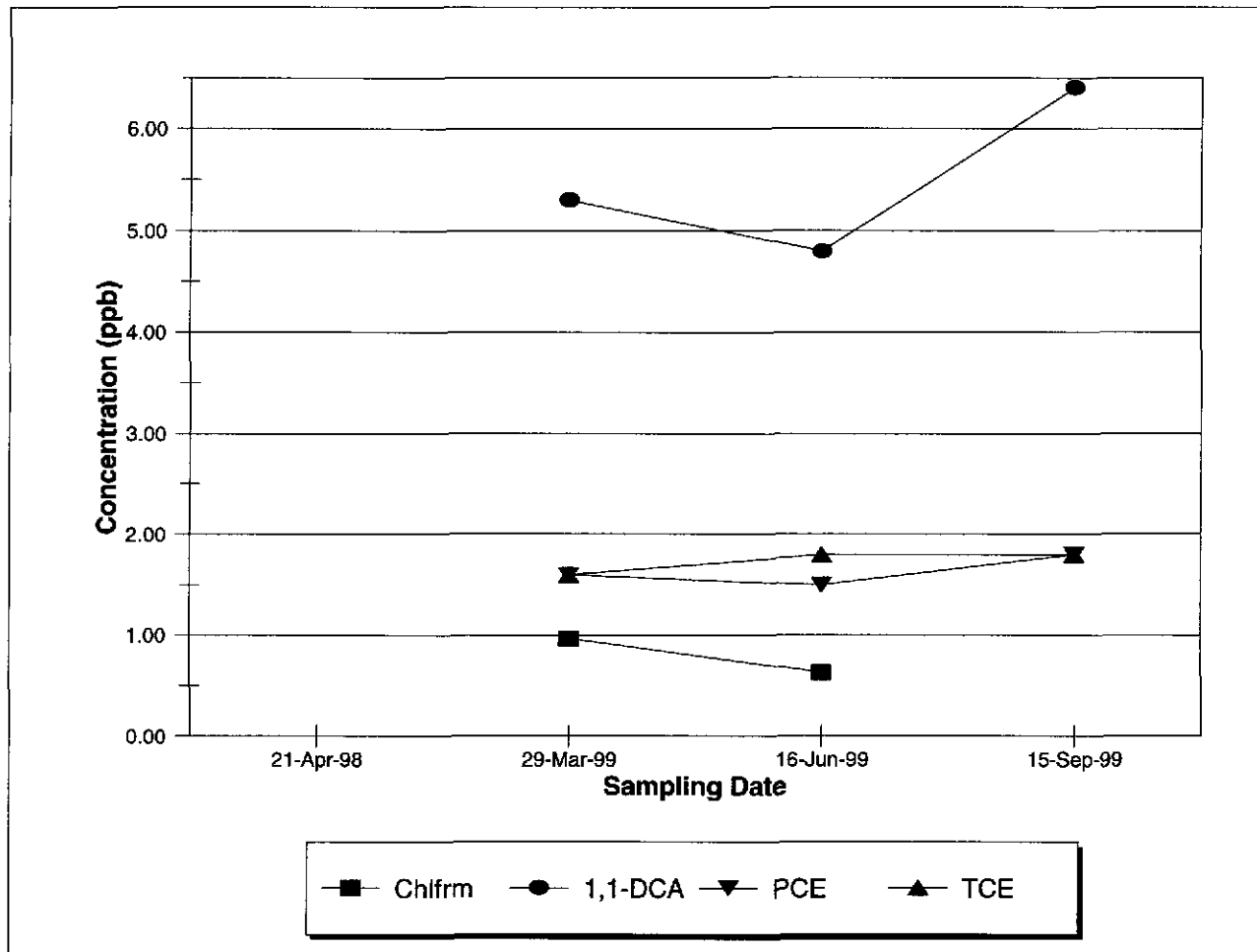
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Date	15 Sept 1999
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Rev	CHT
Apprvd	WL

Historic VOC Results - MW-4
 Groundwater Sampling Program
 Kelly-Moore Paint Company
 969 San Pablo Avenue, Albany, California

Project

Figure

6



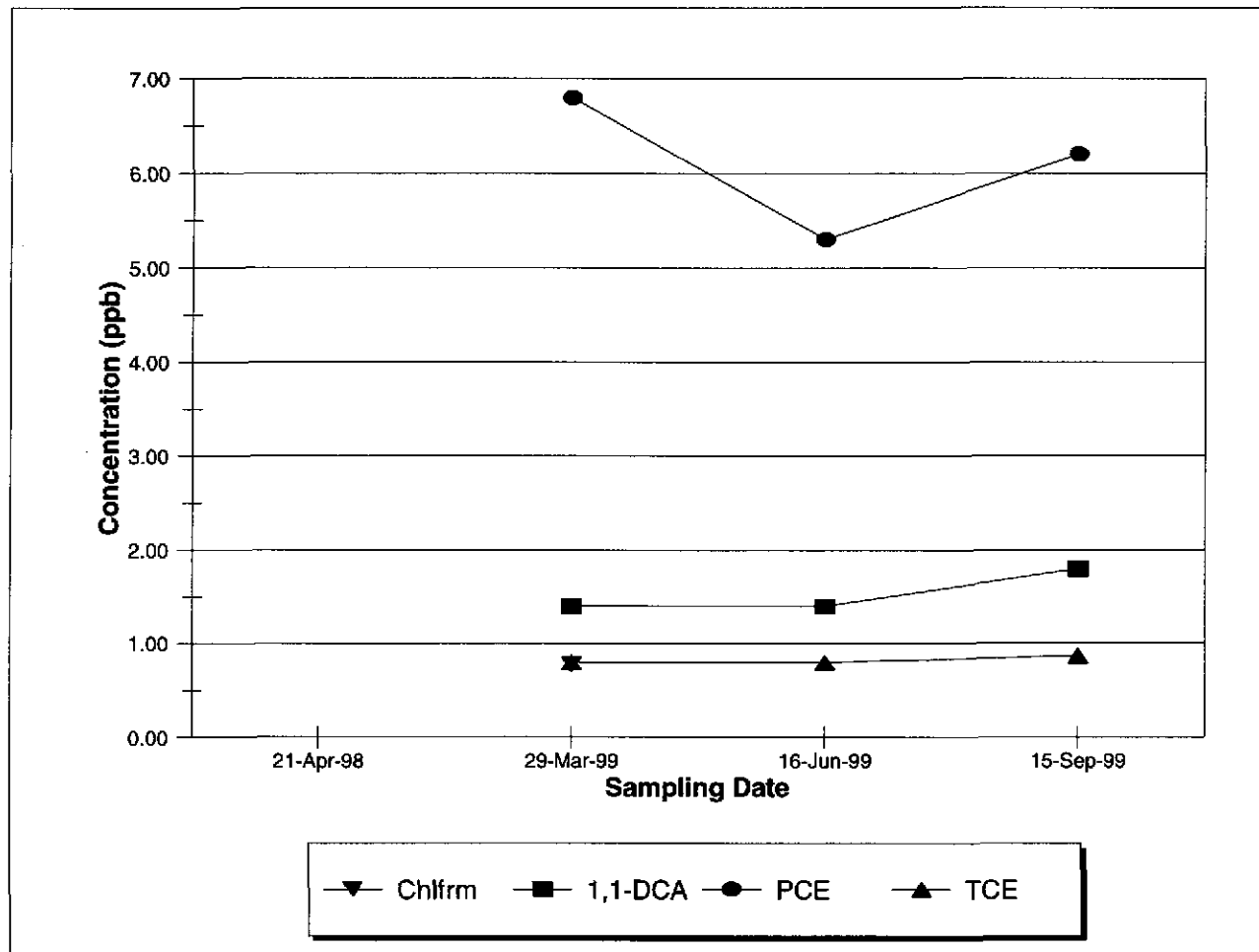
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Job No.	990103
Date	15 Sept 1999
Drawn by	WL
Rev	CHT
Apprvd	WL

Historic VOC Results - MW-5
 Groundwater Sampling Program
 Kelly-Moore Paint Company
 969 San Pablo Avenue, Albany, California

Project

Figure
7



ProTech Consulting & Engineering

Job No.	990103
Date	15 Sept 1999
Drawn by	WL
Rev	CHT
Apprvd	WL

Historic VOC Results - MW-6
 Groundwater Sampling Program
 Kelly-Moore Paint Company
 969 San Pablo Avenue, Albany, California

Project

Figure

8

DEPTH-TO-WATER (DTW) MONITORING SHEET

Project Name: Sally Moore

Project #: 990103

DATE	OPERATOR	WELL #	MEASUREMENTS			NOTES
			DTW	TD	WCH	
15 Sep	UL	mw 2	9.25	14.53	5.28	80% - 10.306 DTW
		mw 3	8.73	14.43	5.70	80% - 9.87 "
		mw 4	9.18	14.68	5.50	80% - 10.28 "
		mw 5	9.20	20.08	10.88	80% - 11.376 "
		mw 6	9.71	19.84	10.13	80% - 11.736 "
						All wells allowed to read be at least 85% prior to spring
		mw 2	10.21	→	→	82%
		mw 3	9.47	→	→	87%
		mw 4	9.98	→	→	85%
		mw 5	11.14	→	→	82%
		mw 6	11.53	→	→	82%

Recovery

Notes: DTW = Depth-to-Water (ft)
 TD = Total Depth of Well (ft)
 WCH = Water Column Height (ft)

GROUNDWATER PARAMETERS MONITORING SHEET

Project Name: Kelly Mann

Project #: 790103

Well #: MW4

DATE	STAGE	GALLONS	PARAMETERS			NOTES
			pH	Temp	Cond	
15 Feb 79	Inlet	0	7.45	64.20	1.41	cloudy at 52ft check up in the blue 1 gallon well
	Exit	5	7.42	64.60	1.38	
						went down ab 12 5 gal. naph
						for exit water & collect
						water for test points
						2nd
						No Odors
Notes: pH = pH (Standard Units) Temp = temperature (°F) Cond = conductivity (µmho/cm)						

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-09-0248

Date: September 22, 1999

Protech Consulting

1755 E. Bayshore RD, Suite 14B
Redwood City, CA 94063

Attn.: Mr. Woody Lovejoy

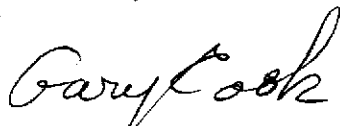
Project: 107-0H99
K/M

Dear Mr. Lovejoy,

Attached is our report for your samples received on Thursday September 16, 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 October 16, 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

Environmental Services (SDB)

Volatile Organic Compounds

Protech Consulting

✉ 1755 E. Bayshore RD, Suite 14B
Redwood City, CA 94063

Attn: Woody Lovejoy

Phone: (650) 569-4020 Fax: (415) 381-1741

Project #: 107-0H99

Project: K/M

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW 2	Water	09/15/1999	1
MW 3	Water	09/15/1999	2
MW 4	Water	09/15/1999	3
MW 5	Water	09/15/1999	4
MW 6	Water	09/15/1999	5

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-09-0248

To: **Protech Consulting**

Test Method: 8260A

Attn.: Woody Lovejoy

Prep Method: 5030

Volatile Organic Compounds

Sample ID: MW 2	Lab Sample ID: 1999-09-0248-001
Project: 107-0H99 K/M	Received: 09/16/1999 14:15
Sampled: 09/15/1999	Extracted: 09/17/1999 18:42
Matrix: Water	QC-Batch: 1999/09/17-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Acetone	ND	50	ug/L	1.00	09/17/1999 18:42	
Benzene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Bromodichloromethane	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Bromoform	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Bromomethane	ND	1.0	ug/L	1.00	09/17/1999 18:42	
Carbon tetrachloride	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Chlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Chloroethane	ND	1.0	ug/L	1.00	09/17/1999 18:42	
2-Butanone(MEK)	ND	50	ug/L	1.00	09/17/1999 18:42	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Chloroform	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Chloromethane	ND	1.0	ug/L	1.00	09/17/1999 18:42	
Dibromochloromethane	ND	0.50	ug/L	1.00	09/17/1999 18:42	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1.00	09/17/1999 18:42	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Dibromomethane	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	09/17/1999 18:42	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	09/17/1999 18:42	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	09/17/1999 18:42	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	09/17/1999 18:42	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Ethylbenzene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
2-Hexanone	ND	50	ug/L	1.00	09/17/1999 18:42	
Methylene chloride	ND	5.0	ug/L	1.00	09/17/1999 18:42	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	09/17/1999 18:42	
Naphthalene	ND	1.0	ug/L	1.00	09/17/1999 18:42	
Styrene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/17/1999 18:42	

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Environmental Services (SDB)

To: **Protech Consulting**

Test Method: 8260A

Attn.: Woody Lovejoy

Prep Method: 5030

Volatile Organic Compounds

Sample ID: MW 2	Lab Sample ID: 1999-09-0248-001
Project: 107-0H99 K/M	Received: 09/16/1999 14:15
Sampled: 09/15/1999	Extracted: 09/17/1999 18:42
Matrix: Water	QC-Batch: 1999/09/17-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Tetrachloroethene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Toluene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	09/17/1999 18:42	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Trichloroethene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Vinyl acetate	ND	5.0	ug/L	1.00	09/17/1999 18:42	
Vinyl chloride	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Total xylenes	ND	1.0	ug/L	1.00	09/17/1999 18:42	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Carbon disulfide	ND	1.0	ug/L	1.00	09/17/1999 18:42	
Isopropylbenzene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Bromobenzene	ND	0.50	ug/L	1.00	09/17/1999 18:42	
Bromochloromethane	ND	1.0	ug/L	1.00	09/17/1999 18:42	
Trichlorofluoromethane	ND	2.0	ug/L	1.00	09/17/1999 18:42	
Surrogate(s)						
4-Bromofluorobenzene	106.7	86-115	%	1.00	09/17/1999 18:42	
1,2-Dichloroethane-d4	86.8	76-114	%	1.00	09/17/1999 18:42	
Toluene-d8	108.1	88-110	%	1.00	09/17/1999 18:42	

Environmental Services (SDB)

To: **Protech Consulting**
 Attn.: Woody Lovejoy

Test Method: 8260A
 Prep Method: 5030

Volatile Organic Compounds

Sample ID: MW 3	Lab Sample ID: 1999-09-0248-002
Project: 107-0H99 K/M	Received: 09/16/1999 14:15
Sampled: 09/15/1999	Extracted: 09/17/1999 19:20
Matrix: Water	QC-Batch: 1999/09/17-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Acetone	ND	50	ug/L	1.00	09/17/1999 19:20	
Benzene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Bromodichloromethane	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Bromoform	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Bromomethane	ND	1.0	ug/L	1.00	09/17/1999 19:20	
Carbon tetrachloride	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Chlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Chloroethane	ND	1.0	ug/L	1.00	09/17/1999 19:20	
2-Butanone(MEK)	ND	50	ug/L	1.00	09/17/1999 19:20	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Chloroform	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Chloromethane	ND	1.0	ug/L	1.00	09/17/1999 19:20	
Dibromochloromethane	ND	0.50	ug/L	1.00	09/17/1999 19:20	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1.00	09/17/1999 19:20	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Dibromomethane	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	09/17/1999 19:20	
1,1-Dichloroethane	1.4	0.50	ug/L	1.00	09/17/1999 19:20	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	09/17/1999 19:20	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	09/17/1999 19:20	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Ethylbenzene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
2-Hexanone	ND	50	ug/L	1.00	09/17/1999 19:20	
Methylene chloride	ND	5.0	ug/L	1.00	09/17/1999 19:20	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	09/17/1999 19:20	
Naphthalene	ND	1.0	ug/L	1.00	09/17/1999 19:20	
Styrene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/17/1999 19:20	

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Environmental Services (SDB)

To: **Protech Consulting**

Test Method: 8260A

Attn.: Woody Lovejoy

Prep Method: 5030

Volatile Organic Compounds

Sample ID: MW 3	Lab Sample ID: 1999-09-0248-002
Project: 107-0H99 K/M	Received: 09/16/1999 14:15
Sampled: 09/15/1999	Extracted: 09/17/1999 19:20
Matrix: Water	QC-Batch: 1999/09/17-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Tetrachloroethene	1.6	0.50	ug/L	1.00	09/17/1999 19:20	
Toluene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	09/17/1999 19:20	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Trichloroethene	1.9	0.50	ug/L	1.00	09/17/1999 19:20	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Vinyl acetate	ND	5.0	ug/L	1.00	09/17/1999 19:20	
Vinyl chloride	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Total xylenes	ND	1.0	ug/L	1.00	09/17/1999 19:20	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Carbon disulfide	ND	1.0	ug/L	1.00	09/17/1999 19:20	
Isopropylbenzene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Bromobenzene	ND	0.50	ug/L	1.00	09/17/1999 19:20	
Bromochloromethane	ND	1.0	ug/L	1.00	09/17/1999 19:20	
Trichlorofluoromethane	ND	2.0	ug/L	1.00	09/17/1999 19:20	
Surrogate(s)						
4-Bromofluorobenzene	106.1	86-115	%	1.00	09/17/1999 19:20	
1,2-Dichloroethane-d4	85.6	76-114	%	1.00	09/17/1999 19:20	
Toluene-d8	102.5	88-110	%	1.00	09/17/1999 19:20	

Environmental Services (SDB)

To: **Protech Consulting**

Test Method: 8260A

Attn.: Woody Lovejoy

Prep Method: 5030

Volatile Organic Compounds

Sample ID: MW 4	Lab Sample ID: 1999-09-0248-003
Project: 107-0H99 K/M	Received: 09/16/1999 14:15
Sampled: 09/15/1999	Extracted: 09/17/1999 19:58
Matrix: Water	QC-Batch: 1999/09/17-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Acetone	ND	50	ug/L	1.00	09/17/1999 19:58	
Benzene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Bromodichloromethane	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Bromoform	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Bromomethane	ND	1.0	ug/L	1.00	09/17/1999 19:58	
Carbon tetrachloride	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Chlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Chloroethane	ND	1.0	ug/L	1.00	09/17/1999 19:58	
2-Butanone(MEK)	ND	50	ug/L	1.00	09/17/1999 19:58	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Chloroform	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Chloromethane	ND	1.0	ug/L	1.00	09/17/1999 19:58	
Dibromochloromethane	ND	0.50	ug/L	1.00	09/17/1999 19:58	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1.00	09/17/1999 19:58	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Dibromomethane	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	09/17/1999 19:58	
1,1-Dichloroethane	61	0.50	ug/L	1.00	09/17/1999 19:58	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	09/17/1999 19:58	
1,1-Dichloroethene	0.74	0.50	ug/L	1.00	09/17/1999 19:58	
cis-1,2-Dichloroethene	18	0.50	ug/L	1.00	09/17/1999 19:58	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	09/17/1999 19:58	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Ethylbenzene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
2-Hexanone	ND	50	ug/L	1.00	09/17/1999 19:58	
Methylene chloride	ND	5.0	ug/L	1.00	09/17/1999 19:58	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	09/17/1999 19:58	
Naphthalene	ND	1.0	ug/L	1.00	09/17/1999 19:58	
Styrene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/17/1999 19:58	

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CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-09-0248

To: **Protech Consulting**

Test Method: 8260A

Attn.: Woody Lovejoy

Prep Method: 5030

Volatile Organic Compounds

Sample ID: MW 4	Lab Sample ID: 1999-09-0248-003
Project: 107-0H99 K/M	Received: 09/16/1999 14:15
Sampled: 09/15/1999	Extracted: 09/17/1999 19:58
Matrix: Water	QC-Batch: 1999/09/17-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Tetrachloroethene	16	0.50	ug/L	1.00	09/17/1999 19:58	
Toluene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	09/17/1999 19:58	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Trichloroethene	4.4	0.50	ug/L	1.00	09/17/1999 19:58	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Vinyl acetate	ND	5.0	ug/L	1.00	09/17/1999 19:58	
Vinyl chloride	0.91	0.50	ug/L	1.00	09/17/1999 19:58	
Total xylenes	ND	1.0	ug/L	1.00	09/17/1999 19:58	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Carbon disulfide	ND	1.0	ug/L	1.00	09/17/1999 19:58	
Isopropylbenzene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Bromobenzene	ND	0.50	ug/L	1.00	09/17/1999 19:58	
Bromochloromethane	ND	1.0	ug/L	1.00	09/17/1999 19:58	
Trichlorofluoromethane	ND	2.0	ug/L	1.00	09/17/1999 19:58	
Surrogate(s)						
4-Bromofluorobenzene	110.9	86-115	%	1.00	09/17/1999 19:58	
1,2-Dichloroethane-d4	77.2	76-114	%	1.00	09/17/1999 19:58	
Toluene-d8	106.3	88-110	%	1.00	09/17/1999 19:58	

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Environmental Services (SDB)

To: **Protech Consulting**

Test Method: 8260A

Attn.: Woody Lovejoy

Prep Method: 5030

Volatile Organic Compounds

Sample ID: MW 5	Lab Sample ID: 1999-09-0248-004
Project: 107-0H99 K/M	Received: 09/16/1999 14:15
Sampled: 09/15/1999	Extracted: 09/17/1999 20:36
Matrix: Water	QC-Batch: 1999/09/17-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Acetone	ND	50	ug/L	1.00	09/17/1999 20:36	
Benzene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Bromodichloromethane	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Bromoform	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Bromomethane	ND	1.0	ug/L	1.00	09/17/1999 20:36	
Carbon tetrachloride	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Chlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Chloroethane	ND	1.0	ug/L	1.00	09/17/1999 20:36	
2-Butanone(MEK)	ND	50	ug/L	1.00	09/17/1999 20:36	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Chloroform	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Chloromethane	ND	1.0	ug/L	1.00	09/17/1999 20:36	
Dibromochloromethane	ND	0.50	ug/L	1.00	09/17/1999 20:36	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1.00	09/17/1999 20:36	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Dibromomethane	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	09/17/1999 20:36	
1,1-Dichloroethane	6.4	0.50	ug/L	1.00	09/17/1999 20:36	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	09/17/1999 20:36	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	09/17/1999 20:36	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Ethylbenzene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
2-Hexanone	ND	50	ug/L	1.00	09/17/1999 20:36	
Methylene chloride	ND	5.0	ug/L	1.00	09/17/1999 20:36	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	09/17/1999 20:36	
Naphthalene	ND	1.0	ug/L	1.00	09/17/1999 20:36	
Styrene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/17/1999 20:36	

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Environmental Services (SDB)

To: **Protech Consulting**

Test Method: 8260A

Attn.: Woody Lovejoy

Prep Method: 5030

Volatile Organic Compounds

Sample ID: MW 5	Lab Sample ID: 1999-09-0248-004
Project: 107-0H99 K/M	Received: 09/16/1999 14:15
Sampled: 09/15/1999	Extracted: 09/17/1999 20:36
Matrix: Water	QC-Batch: 1999/09/17-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Tetrachloroethene	1.8	0.50	ug/L	1.00	09/17/1999 20:36	
Toluene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	09/17/1999 20:36	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Trichloroethene	1.8	0.50	ug/L	1.00	09/17/1999 20:36	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Vinyl acetate	ND	5.0	ug/L	1.00	09/17/1999 20:36	
Vinyl chloride	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Total xylenes	ND	1.0	ug/L	1.00	09/17/1999 20:36	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Carbon disulfide	ND	1.0	ug/L	1.00	09/17/1999 20:36	
Isopropylbenzene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Bromobenzene	ND	0.50	ug/L	1.00	09/17/1999 20:36	
Bromochloromethane	ND	1.0	ug/L	1.00	09/17/1999 20:36	
Trichlorofluoromethane	ND	2.0	ug/L	1.00	09/17/1999 20:36	
Surrogate(s)						
4-Bromofluorobenzene	108.9	86-115	%	1.00	09/17/1999 20:36	
1,2-Dichloroethane-d4	86.5	76-114	%	1.00	09/17/1999 20:36	
Toluene-d8	107.9	88-110	%	1.00	09/17/1999 20:36	

Environmental Services (SDB)

To: **Protech Consulting**

Test Method: 8260A

Attn.: Woody Lovejoy

Prep Method: 5030

Volatile Organic Compounds

Sample ID: MW 6	Lab Sample ID: 1999-09-0248-005
Project: 107-0H99 K/M	Received: 09/16/1999 14:15
Sampled: 09/15/1999	Extracted: 09/17/1999 21:14
Matrix: Water	QC-Batch: 1999/09/17-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Acetone	ND	50	ug/L	1.00	09/17/1999 21:14	
Benzene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Bromodichloromethane	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Bromoform	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Bromomethane	ND	1.0	ug/L	1.00	09/17/1999 21:14	
Carbon tetrachloride	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Chlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Chloroethane	ND	1.0	ug/L	1.00	09/17/1999 21:14	
2-Butanone(MEK)	ND	50	ug/L	1.00	09/17/1999 21:14	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Chloroform	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Chloromethane	ND	1.0	ug/L	1.00	09/17/1999 21:14	
Dibromochloromethane	ND	0.50	ug/L	1.00	09/17/1999 21:14	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1.00	09/17/1999 21:14	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Dibromomethane	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	09/17/1999 21:14	
1,1-Dichloroethane	1.8	0.50	ug/L	1.00	09/17/1999 21:14	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	09/17/1999 21:14	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	09/17/1999 21:14	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Ethylbenzene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
2-Hexanone	ND	50	ug/L	1.00	09/17/1999 21:14	
Methylene chloride	ND	5.0	ug/L	1.00	09/17/1999 21:14	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	09/17/1999 21:14	
Naphthalene	ND	1.0	ug/L	1.00	09/17/1999 21:14	
Styrene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/17/1999 21:14	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

CHROMALAB, INC.

Submission #: 1999-09-0248

Environmental Services (SDB)

To: **Protech Consulting**

Test Method: 8260A

Attn.: Woody Lovejoy

Prep Method: 5030

Volatile Organic Compounds

Sample ID: MW 6	Lab Sample ID: 1999-09-0248-005
Project: 107-0H99 K/M	Received: 09/16/1999 14:15
Sampled: 09/15/1999	Extracted: 09/17/1999 21:14
Matrix: Water	QC-Batch: 1999/09/17-01.27

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Tetrachloroethene	6.2	0.50	ug/L	1.00	09/17/1999 21:14	
Toluene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	09/17/1999 21:14	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Trichloroethene	0.87	0.50	ug/L	1.00	09/17/1999 21:14	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Vinyl acetate	ND	5.0	ug/L	1.00	09/17/1999 21:14	
Vinyl chloride	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Total xylenes	ND	1.0	ug/L	1.00	09/17/1999 21:14	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Carbon disulfide	ND	1.0	ug/L	1.00	09/17/1999 21:14	
Isopropylbenzene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Bromobenzene	ND	0.50	ug/L	1.00	09/17/1999 21:14	
Bromochloromethane	ND	1.0	ug/L	1.00	09/17/1999 21:14	
Trichlorofluoromethane	ND	2.0	ug/L	1.00	09/17/1999 21:14	
Surrogate(s)						
4-Bromofluorobenzene	105.9	86-115	%	1.00	09/17/1999 21:14	
1,2-Dichloroethane-d4	86.4	76-114	%	1.00	09/17/1999 21:14	
Toluene-d8	106.0	88-110	%	1.00	09/17/1999 21:14	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Environmental Services (SDB)

To: **Protech Consulting**

Test Method: 8260A

Attn.: Woody Lovejoy

Prep Method: 5030

Batch QC Report
Volatile Organic Compounds

Method Blank	Water	QC Batch # 1999/09/17-01.27
MB: 1999/09/17-01.27-001		Date Extracted: 09/17/1999 14:22

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Acetone	ND	50	ug/L	09/17/1999 14:22	
Benzene	ND	0.5	ug/L	09/17/1999 14:22	
Bromodichloromethane	ND	0.5	ug/L	09/17/1999 14:22	
Bromoform	ND	0.5	ug/L	09/17/1999 14:22	
Bromomethane	ND	1.0	ug/L	09/17/1999 14:22	
Carbon tetrachloride	ND	0.5	ug/L	09/17/1999 14:22	
Chlorobenzene	ND	0.5	ug/L	09/17/1999 14:22	
Chloroethane	ND	1.0	ug/L	09/17/1999 14:22	
2-Butanone(MEK)	ND	50	ug/L	09/17/1999 14:22	
2-Chloroethylvinyl ether	ND	0.5	ug/L	09/17/1999 14:22	
Chloroform	ND	0.5	ug/L	09/17/1999 14:22	
Chloromethane	ND	1.0	ug/L	09/17/1999 14:22	
Dibromochloromethane	ND	0.5	ug/L	09/17/1999 14:22	
1,2-Dichlorobenzene	ND	0.5	ug/L	09/17/1999 14:22	
1,3-Dichlorobenzene	ND	0.5	ug/L	09/17/1999 14:22	
1,4-Dichlorobenzene	ND	0.5	ug/L	09/17/1999 14:22	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	09/17/1999 14:22	
1,2-Dibromoethane	ND	0.5	ug/L	09/17/1999 14:22	
Dibromomethane	ND	0.5	ug/L	09/17/1999 14:22	
Dichlorodifluoromethane	ND	0.5	ug/L	09/17/1999 14:22	
1,1-Dichloroethane	ND	0.5	ug/L	09/17/1999 14:22	
1,2-Dichloroethane	ND	0.5	ug/L	09/17/1999 14:22	
1,1-Dichloroethene	ND	0.5	ug/L	09/17/1999 14:22	
cis-1,2-Dichloroethene	ND	0.5	ug/L	09/17/1999 14:22	
trans-1,2-Dichloroethene	ND	0.5	ug/L	09/17/1999 14:22	
1,2-Dichloropropane	ND	0.5	ug/L	09/17/1999 14:22	
cis-1,3-Dichloropropene	ND	0.5	ug/L	09/17/1999 14:22	
trans-1,3-Dichloropropene	ND	0.5	ug/L	09/17/1999 14:22	
Ethylbenzene	ND	0.5	ug/L	09/17/1999 14:22	
2-Hexanone	ND	50	ug/L	09/17/1999 14:22	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Environmental Services (SDB)

To: **Protech Consulting**

Test Method: 8260A

Attn.: Woody Lovejoy

Prep Method: 5030

Batch QC Report
Volatile Organic Compounds

Method Blank**Water****QC Batch # 1999/09/17-01.27**

MB: 1999/09/17-01.27-001

Date Extracted: 09/17/1999 14:22

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Methylene chloride	ND	5.0	ug/L	09/17/1999 14:22	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	09/17/1999 14:22	
Naphthalene	ND	1.0	ug/L	09/17/1999 14:22	
Styrene	ND	0.5	ug/L	09/17/1999 14:22	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	09/17/1999 14:22	
Tetrachloroethene	ND	0.5	ug/L	09/17/1999 14:22	
Toluene	ND	0.5	ug/L	09/17/1999 14:22	
1,1,1-Trichloroethane	ND	0.5	ug/L	09/17/1999 14:22	
1,1,2-Trichloroethane	ND	0.5	ug/L	09/17/1999 14:22	
Trichloroethene	ND	0.5	ug/L	09/17/1999 14:22	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	09/17/1999 14:22	
Vinyl acetate	ND	5.0	ug/L	09/17/1999 14:22	
Vinyl chloride	ND	0.5	ug/L	09/17/1999 14:22	
Total xylenes	ND	1.0	ug/L	09/17/1999 14:22	
Trichlorotrifluoroethane	ND	0.5	ug/L	09/17/1999 14:22	
Carbon disulfide	ND	1.0	ug/L	09/17/1999 14:22	
Isopropylbenzene	ND	0.5	ug/L	09/17/1999 14:22	
Bromobenzene	ND	0.5	ug/L	09/17/1999 14:22	
Bromochloromethane	ND	1.0	ug/L	09/17/1999 14:22	
Trichlorofluoromethane	ND	2.0	ug/L	09/17/1999 14:22	
Surrogate(s)					
4-Bromofluorobenzene	103.2	86-115	%	09/17/1999 14:22	
1,2-Dichloroethane-d4	81.8	76-114	%	09/17/1999 14:22	
Toluene-d8	101.2	88-110	%	09/17/1999 14:22	

Environmental Services (SDB)

To: **Protech Consulting**

Test Method: 8260A

Attn: Woody Lovejoy

Prep Method: 5030

Batch QC Report

Volatile Organic Compounds

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 1999/09/17-01.27
LCS: 1999/09/17-01.27-002	Extracted: 09/17/1999 12:56	Analyzed: 09/17/1999 12:56
LCSD: 1999/09/17-01.27-003	Extracted: 09/17/1999 13:44	Analyzed: 09/17/1999 13:44

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Benzene	51.3	51.1	50.0	50.0	102.6	102.2	0.4	69-129	20		
Chlorobenzene	57.3	52.9	50.0	50.0	114.6	105.8	8.0	61-121	20		
1,1-Dichloroethene	48.7	45.2	50.0	50.0	97.4	90.4	7.5	65-125	20		
Toluene	50.0	48.9	50.0	50.0	100.0	97.8	2.2	70-130	20		
Trichloroethene	49.1	48.9	50.0	50.0	98.2	97.8	0.4	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	537	519	500	500	107.4	103.8		86-115			
1,2-Dichloroethane-d4	430	413	500	500	86.0	82.6		76-114			
Toluene-d8	523	485	500	500	104.6	97.0		88-110			

CHROMALAB, INC.

Environmental Services (SDB) (DONS 1004)

1220 Quarry Lane • Placenton, California 94566-4756
510/404-1919 • Facsimile 510/404-1098

99-09-0248

Reference #: 47993

Chain of Custody

DATE 15 Sept 99 PAGE 1 OF 1

PROJECT INFORMATION					ANALYSIS REPORT															NUMBER OF CONTAINERS				
PROJ MGR	COMPANY	ADDRESS	SAMPLERS (SIGNATURE)	(PHONE NO.) (FAX NO.)	TPH-EPA 8015, 8020 <input type="checkbox"/> Gas w/ <input type="checkbox"/> BTEX DMTR	PURGEABLE AROMATICS BTEX (EPA 8020)	TPH-Diesel (EPA 8015M)	TEPH (EPA 8015M) Chlorides, DiChlor. DM.O.	PURGEABLE HALOCARBONS, (BVOCs) (EPA 8010)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMI-VOLATILES (EPA 8270)	TOTAL OIL AND GREASE (SM 5520 B + F, E + F)	<input type="checkbox"/> PESTICIDES (EPA 8080) <input type="checkbox"/> PCB'S (EPA 8090)	PNA's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	<input type="checkbox"/> Spec. Cond. <input type="checkbox"/> TSS <input type="checkbox"/> TDS	LUFT METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 6010/7470/7471)	TOTAL LEAD	DW.E.T. (STLC) DTCLP		<input type="checkbox"/> Equivalent Chromium <input type="checkbox"/> pH (24 hr hold time for BZD)			
SAMPLE ID	DATE	TIME	MATRIX	PRESRV.																				
MW2	15 Sept 99		Water							X													6	
MW3										X														6
MW4										X														6
MW5										X														6
MW6										X														6

PROJECT INFORMATION				SAMPLE RECEIPT				RELINQUISHED BY			RELINQUISHED BY			RELINQUISHED BY						
PROJECT NAME K/m	PROJECT NUMBER 107-0499	P.O. #	STANDARD 5 DAY	TOTAL NO. OF CONTAINERS 24	HEAD SPACE 48	TEMPERATURE 72	OTHER	(SIGNATURE) S. Lovejoy	(TIME) 15 Sept 99	(PRINTED NAME) S. Lovejoy	(DATE) 9/16/99	(SIGNATURE) G. Cook	(TIME) 14:10	(PRINTED NAME) G. Cook	(DATE) 9/16/99	(SIGNATURE) D. Harrington	(TIME) 13:30	(PRINTED NAME) D. Harrington	(DATE) 9/16/99	
Report: <input type="checkbox"/> Routine <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/> Level 4 <input type="checkbox"/> Electronic Report				CONFORMS TO RECORD				RECEIVED BY			RECEIVED BY			RECEIVED BY (LABORATORY)						
SPECIAL INSTRUCTIONS/COMMENTS: D. 1) ProTech Fax Results to Woody Lovejoy @ TCG 415-381-1741								(SIGNATURE) D. Harrington	(TIME) 14:15	(PRINTED NAME) D. Harrington	(DATE) 9/16/99	(SIGNATURE) G. Cook	(TIME) 14:15	(PRINTED NAME) G. Cook	(DATE) 9/16/99	(SIGNATURE) Gary Cook	(TIME) 13:30	(PRINTED NAME) Gary Cook	(DATE) 9/16/99	(LAB)

FOSS

ENVIRONMENTAL
INFRASTRUCTURE

Always Ready

1605 Ferry Point
Alameda, CA 94501

Please make a note of
our NEW Fax Number.

FAX COVER SHEET

DATE: 10-15-99

TO: Woody Lovejoy

FROM: Rich Lodge

COMPANY:

FAX: (510) 749-4150

FAX: 415-381-174

PHONE: (510) 749-1390

PHONE:

TOTAL PAGES INCLUDING THIS COVER SHEET: 2

SUBJECT:

COMMENTS:

Copy of Seaport manifest for
5 drums Removed from Kelly Moore
on 10/7/99.

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NON-HAZARDOUS WATER TRANSPORT FORM

0001

GENERATOR INFORMATION

Kelly Moore Paints
969 San pablo Ave
Albany Ca

CUSTOMER INFORMATION

Foss Environmental Services
Rich
PO # 49320-01

DESCRIPTION OF WATER: Monitoring Well Sampling
NON-HAZARDOUS WASTE WATER, MONITORING WELL PURGE WATER AND/OR AUGER RINSATE, TANK RINSATE OR ABOVE DESCRIBED WATER. THIS WATER MAY CONTAIN DISSOLVED HYDROCARBONS. I CERTIFY THAT THE ABOVE NAMED MATERIAL IS A LIQUID EXEMPT FROM RCRA PER 40 CFR 261.4 (b)(10) AND DOES NOT MEET THE CRITERIA OF HAZARDOUS WASTE AS DESCRIBED IN 22 CCR ARTICLE 11 OR ANY OTHER APPLICABLE STATE LAW. HAS BEEN PROPERLY DESCRIBED, CLASSIFIED AND PACKAGED AND IS IN PROPER CONDITION FOR TRANSPORTATION ACCORDING TO APPLICABLE REGULATIONS.

*Kelly Moore Paint
GARY A. ALCORN*

Generator/Authorised Agent

Gary A. Alcorn 10-7-99
Sign date

SITE INFORMATION

969 San pablo Ave
Albany
Ca

GROSS	
TARE	
NET	
TOTAL GALLONS	<i>200.250</i>

*5 Gross Gallons
Non-Hazardous Waste*

Calculated at 8.34 lbs per USG

TRANSPORTER INFORMATION

Foss

Truck ID: *2050 Mack*

Driver: *Tom Becker* 10/7/99
Print full name & sign date

TIME OUT	<i>8:00</i>
TIME IN	<i>2:00</i>
TIME SPENT	<i>6</i>

DISPOSAL FACILITY INFORMATION

Seaport Environmental
575 Seaport Boulevard
Redwood City, Ca 94063
Phone: (650) 364 1024

Approval Number

901 - 843

Solids %Wt

—

pH

—

Solids Surcharge
\$/USG

—

Received by:
Print full name & sign

W.R. Yeddes 10-08-99
Date