

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

March 31, 2006

Mr. John Wallace
Aqua Chlor
By Swim Chem
P.O. Box 417638
Sacramento, CA 95841

Subject: Work Plan to Collect Soil and Grab Groundwater Samples, 15885 Altamont Pass Road, Tracy, California

Dear Mr. Wallace:

Alameda County Environmental Health (ACEH) staff has reviewed the March 14, 2006 letter report entitled, "Work Plan to Collect Grab Groundwater Sample", prepared on your behalf by Compliance and Closure, Inc. ACEH received the work plan on March 21, 2006. ACEH staff have reviewed the documents associated with the site, and these documents indicate ethylene glycol concentrations of 1,700 parts per million (ppm) are present in the shallow soil.

ACEH concurs with the proposed scope of work. However, in response to ACEH request to collect a grab groundwater sample, it is important to consider that after the boring is advanced to approximately 50 feet bgs., the soil boring may be left open overnight to aid in the collection of groundwater sample, should the first attempt to collect a groundwater sample be unsuccessful. In addition, soil samples are to be collected at five feet intervals and submitted for laboratory analysis for ethylene glycol.

We request that you perform the proposed work, and send us the reports described below. Please provide 72-hour advance written notification to this office (email to: steven.plunkett@acgov.org) prior to the start of field activities.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Steven Plunkett), according to the following schedule:

- **April 30, 2006** – Soil and Groundwater Investigation Report

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) now request submission of reports in electronic form. The electronic copy is intended to replace the need for a paper copy

Mr. John Wallace
March 30, 2006
Page 2

and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for groundwater cleanup programs.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this case meet this requirement.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

If you have any questions, please call me at (510) 383-1767.

Sincerely,

Steven Plunkett
Hazardous Materials Specialist

Mr. John Wallace
March 30, 2006
Page 3

Enclosure: ACEH **Electronic Report Upload (ftp) Instructions**

cc: Donna Drogos, ACEH
Gary Mulkey, CCI
Steven Plunkett, ACEH
Susan Hugo, ACEH
File

Memorandum

To: Donna Drogos
CC: Susan Hugo, Ariu Leve
From: Steven Plunkett
Date: 3/31/2006
Re: File Review for Auto Chlor (SLIC)

Background File Review and Investigation for Auto Chlor

I have reviewed case file for AutoChlor (the site) and have found that there are some issues of concern regarding this case. The initial file review of the site indicated that an incident occurred in October 2000, and there was an associated ethylene glycol release. The release was documented by ACEHD and the RP was informed of his responsibility to determine the extent of contamination and cleanup the site. I called and left a message for the consultant -Gary Mulkey- to discuss the case, but he did not return my call.

Summary of Activities

- July 1996, NOV issued to property owner at 15885 Altamont Pass Rd. regarding zoning violation and illegal operation of business on the property.
- Initial inspection of site conducted 5/97 with several issues/concerns regarding proper documentation, labeling, employee training and inventory control.
- Facility inspection for stormwater 7/2000 indicated several areas of concern; 1) soil and gravel staining by ethylene glycol due to drag out liquid on outside of chlorine gas cylinders leaking onto dirt floor. Cylinders are stored in ethylene glycol solution, which is stored inside freezer unit. 2) release of ~ 1,600 gallons of caustic solution into soil from an poly tank 3) Vehicle washing for 20 vehicles occurs weekly on concrete pad without adequate control of runoff.
- 6/99 RMP submitted to ACEHD. RMP updated in 6/04
- Complaint filed in 10/2000 by former employee pertaining to illegal dumping of ~2,000gal/week of caustic solution. Employee also claims that illegal dumping of used motor oil and antifreeze occurs on the site.
- 1/01 disposal of ethylene glycol bill of lading. 4/03 ACEHD site inspection uncovers several areas of concern; 1) Need for emergency response plan, 2) Properly label and identify caustic AST, 3) document employee training, 4) provide documentation that releases occurred in 2000 were cleaned up.

- 12/04 ACEHD CalARP review for AquaChlor RMP.
- 2/05 ACEHD correspondence regarding site closure permit including summary of work to be completed by AutoChlor.
- 9/05 Compliance & Closure, Inc (CCI). submits limited closure plan on behalf of AutoChlor. ACDEH reviews report -which lacks soil analytical data- and request work plan to profile soil and groundwater conditions on site.
- 11/05 CCI. submits work plan to characterize soil conditions on site without addressing groundwater issues. ACDEH replies to letter and request groundwater issues be addressed in workplan.
- 12/05 CCI replies to ACEHD with justification for initial work plan with the installation of one soil boring to 25' bgs, which may or may not encounter groundwater.

Conclusion and Recommendations

During the initial limited closure report, CCI collected a total of six soil samples from approximately 12 to 18 inches below ground surface. Chemical analytical results indicate the presence of ethylene glycol in sample S-2, which is in front of the former cylinder drag out station. Noticeable staining from ethylene glycol was present in the soil at this location, and it was selected as the site for a soil boring location.

Several factors should be considered in making an informed decision when installing this boring; 1) the proper equipment to install a boring that will allow us to encounter groundwater is critical to determine the if groundwater contamination is a issue, 2) the sorption coefficient of ethylene glycol is very low and therefore will not adsorb to sediment, 3) ethylene glycol is very mobile and miscible and will move through the sediment quite rapidly, 4) the amount of solution released is unknown, but the area of impact is limited, 5) soil sampling intervals should at least every 5 feet, at significant lithology changes and at the capillary fringe/soil water interface, 6) lateral migration of contaminant is likely limited in extent to an area of approximately 4 feet x 8 feet; according to a conversation with former ACEHD employee, Paul Smith.

In my opinion, we should start with one soil boring at the location determined by the consultant. We need to impress on the RP/consultant that a grab groundwater sample is a critical component for proper site characterization and ultimately site closure.

Hugo, Susan, Env. Health

From: Hugo, Susan, Env. Health
Sent: Friday, March 10, 2006 9:44 AM
To: 'Gary Mulkey'
Cc: Levi, Ariu, Env. Health; De, Sukla, Env. Health; Drogos, Donna, Env. Health; Plunkett, Steven, Env. Health; 'Nalini Frush'
Subject: FW: DWR Release Form for Well Survey
Importance: High

Gary - please complete your part on the form; fax the completed form to me at (925) 337-9335; I will sign the form and fax or e-mail it back to you; hard copy in the mail.

I expect to receive your revised workplan by March 22 as discussed in our meeting last week (March 8).

Please call or e-mail if you have any questions.

Thanks

Susan L. Hugo
Supervising Hazardous Materials Specialist
Alameda County Environmental Health Services
1131 Harbor Bay Parkway, Alameda, CA 94502
Phone (510) 567-6780
Fax (510) 337-9335
susan.hugo@acgov.org


From: Gary Mulkey [<mailto:gary@cci-envr.com>]
Sent: Friday, March 10, 2006 8:33 AM
To: Hugo, Susan, Env. Health
Subject: DWR Release Form for Well Survey



Untitled Attachment DWR Release
Form.pdf (150 KB)

Tracking:	Recipient	Delivery	Read
	'Gary Mulkey'		
	Levi, Ariu, Env. Health	Delivered: 3/10/2006 9:44 AM	Read: 3/10/2006 10:28 AM
	De, Sukla, Env. Health	Delivered: 3/10/2006 9:44 AM	
	Drogos, Donna, Env. Health	Delivered: 3/10/2006 9:44 AM	Read: 3/10/2006 9:47 AM
	Plunkett, Steven, Env. Health	Delivered: 3/10/2006 9:44 AM	
	'Nalini Frush'		

Hugo, Susan, Env. Health

 Compliance and Closure Inc. Corporate Logo

Compliance & Closure, Inc. 4115 Blackhawk Plaza
Circle, Suite 100 Danville, CA 94506

Hello Susan:

In order for Wyman Hong of the Zone 7 Water Agency to release any well completion reports to me, I need you to authorize it by signing the DWR Release Form.

Please sign and either e-mail back to me or you can fax it to me at (408) 226-9672. I would like to have this information before I complete the revised Work Plan.

Thank You,

Gary Mulkey
gary@cci-envr.com
(925) 580-2258

3/10/2006

DEPARTMENT OF WATER RESOURCES

CENTRAL DISTRICT
3251 8 Street
Sacramento, CA 95816
(916) 227-7632
(916) 227-7600(Fax)

NORTHERN DISTRICT
2440 Main Street
Red Bluff, CA 96080
(530) 528-7300
(530) 528-7322 (Fax)

SAN JOAQUIN DISTRICT
3374 East Shields Avenue
Fresno, CA 93728
(559) 230-3300
(559) 230-3301 (Fax)

SOUTHERN DISTRICT
770 Fairmont Avenue
Glendale, CA 91203
(818) 543-4600
(818) 543-4604 (Fax)

WELL COMPLETION REPORT RELEASE AGREEMENT-AGENCY
(Government and Regulatory Agencies and their Authorized Agents)

Project/Contract No. Aqua chlon, Alameda County

Township, Range, and Section _____ Radius _____

(Must include entire study area and a map that shows the area of interest.)

Under California Water Code Section 13752, the agency named below requests permission from Department of Water Resources to inspect or copy, or for our authorized agent named below to inspect or copy, Well Completion Reports filed pursuant to Section 13751 to (check one):

Make a study, or,

Perform an environmental cleanup study associated with an unauthorized release of a contaminant within a distance of 2 miles.

In accordance with Section 13752, information obtained from these reports shall be kept confidential and shall not be disseminated, published, or made available for inspection by the public without written authorization from the owner(s) of the well(s). The information shall be used only for the purpose of conducting the study. Copies obtained shall be stamped CONFIDENTIAL and shall be kept in a restricted file accessible only to agency staff or the authorized agent.

Authorized Agent _____

Government or Regulatory Agency _____

Address _____

Address _____

City, State, and Zip Code _____

City, State, and Zip Code _____

Signature _____

Signature _____

Title _____

Title _____

Telephone () _____

Telephone () _____

Fax () _____

Fax () _____

Date _____

Date _____

E-mail _____

E-mail _____

6 June 2001

Memorandum

To: Donna Drogos
CC: Susan Hugo, Ariu Leve
From: Steven Plunkett
Date: 3/8/2006
Re: File Review for Auto Chlor (SLIC)

Background File Review and Investigation for Auto Chlor

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- Initial inspection of site conducted 5/97 with several issues/concerns regarding proper documentation, labeling, employee training and inventory control.
- Facility inspection for stormwater 7/2000 indicated several areas of concern; 1) soil and gravel staining by ethylene glycol due to drag out liquid on outside of chlorine gas cylinders leaking onto dirt floor. Cylinders are stored in ethylene glycol solution, which is stored inside freezer unit. 2) release of ~ 1,600 gallons of caustic solution into soil from an poly tank 3) Vehicle washing for 20 vehicles occurs weekly on concrete pad without adequate control of runoff.
- 6/99 RMP submitted to ACEHD. RMP updated in 6/04
- Complaint filed in 10/2000 by former employee pertaining to illegal dumping of ~2,000gal/week of caustic solution. Employee also claims that illegal dumping of used motor oil and antifreeze occurs on the site.
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*not true
allegations
per Gary
Wallace*

- 12/04 ACEHD CalARP review for AquaChlor RMP.
- 2/05 ACEHD correspondence regarding site closure permit including summary of work to be completed by AutoChlor.
- 9/05 Compliance & Closure, Inc (CCI). submits limited closure plan on behalf of AutoChlor. ACDEH reviews report -which lacks soil analytical data- and request work plan to profile soil and groundwater conditions on site.
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Several factors should be considered in making an informed decision when installing this boring; 1) the proper equipment to install a boring that will allow us to encounter groundwater is critical to determine the if groundwater contamination is a issue, 2) the sorption coefficient of ethylene glycol is very low and therefore will not adsorb to sediment, 3) ethylene glycol is very mobile and miscible and will move through the sediment quite rapidly, 4) the amount of solution released is unknown, but the area of impact is limited, 5) soil sampling intervals should at least every 5 feet, at significant lithology changes and at the capillary fringe/soil water interface, 6) lateral migration of contaminant is likely limited in extent to an area of approximately 6 feet x 10 feet; according to a conversation with former ACEHD employee, Paul Smith.

In my opinion, we should start with one soil boring at the location determined by the consultant. We need to impress on the RP/consultant that a grab groundwater sample is a critical component for proper site characterization and ultimately site closure.

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1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

February 22, 2006

Mr. Jerry Wallace
AquaChlor
By Swim Chem
P.O.Box 417638
Sacramento, CA 95841

RE: Aqua Chlor - 15885 Altamont Pass Road, Tracy, CA
Work Plan for Soil Profiling and Requirement For Groundwater Sample

Dear Mr. Wallace:

The Alameda County Department of Environmental Health (ACDEH) has reviewed the letter dated December 26, 2005, submitted by Compliance & Closure, Inc. (CCI) in response to our request of ground water sampling.

AquaChlor closed their chlorine transfer operation in 2005. As part of the closure procedure, samples were collected in the former process areas to confirm the presence of any contamination associated with the former process at the site. Based on past history of chemical handling and spill reports, the location of the chlorine transfer station, sodium hydroxide tank and ethylene glycol freezer are the areas of concern. Ethylene glycol (1700 mg/kg) has been found in one of the soil samples collected at the site. CCI proposed to drill a single boring at that sample location to a depth of 25 feet to investigate possible migration of the contaminant and impact to ground water beneath the site.

In the response letter, CCI established that there had not been any lateral migration of the ethylene glycol based on two other samples collected in the top 15 inches of the soil. ACEHD is concern of the vertical migration and therefore requested a water sample. The Alameda County Local Oversight Program (LOP), the group in charge of contaminated site clean up here in our office recommended that groundwater be collected at the site. Based on the fact that ethylene glycol has very little affinity for soil and therefore will not stay bound to the top layer as suggested and without the knowledge of the hydrogeology of the area, a grab water sample is being required.

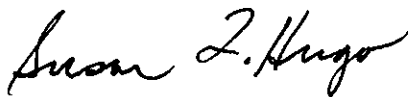
The ACDEH required soil sampling in the freezer area based on past history of ongoing spill & releases at the time of use. According to our record, the use of ethylene glycol continued until 2003. The release happened during the dragging of the smaller cylinders from the freezer to the chlorine transfer station. In addition, there was a reported illegal weekly disposal of antifreeze in the ground. Based on these ongoing releases at the time of use, collection of groundwater sample beneath the site is necessary.

Mr. Jerry Wallace
RE: AquaChlor - 15885 Altamont Pass Road, Tracy, CA
February 22, 2006
Page 2

A drilling permit is required for any soil boring from the local jurisdiction. Information as to the depth of water table in the area and local hydrogeology can also be obtained from this permitting agency.

If you have any questions, please contact me at (510) 567-6780 or Sukla De at (510) 304-5446. You can also e-mail me at susan.hugo@acgov.org.

Sincerely,



Susan Hugo
Supervising Hazardous Materials Specialist

cc: Ariu Levi – Chief, Environmental Health
Chris Gray – BOS District 1
Sukla De – Environmental Health
Gary Mulkey – Compliance & Closure



December 26, 2005

Ms. Susan Hugo
Supervising Hazardous Material Specialist
Alameda County Department of Environmental Health
1131 Harbor Way Parkway, Suite 250
Alameda, CA 94502-6577

RE: Response Letter to Proposed Work Plan
Aqua Chlor Site
15885 Altamont Pass Road, Tracy, CA
(CCI Project No. 12176)

Dear Ms. Hugo:

This letter is in response to the Alameda County, Department of Environmental Health (ACDEH)'s letter dated December 13, 2005 to Aqua Chlor regarding Compliance & Closure, Inc.'s (CCI) November 21, 2005 Work Plan to Profile Soil Conditions at the Aqua Chlor site, located at 15885 Altamont Pass Road, Tracy, California. In its letter, the ACDEH indicated CCI did not provide information of *"the basis of soil profiling to the proposed depth of 25 feet only and not to ground water"*.

As CCI stated in its Work Plan, ethylene glycol was detected at 1,700 milligrams per kilogram (mg/kg) in **one of four** soil samples collected at depths ranging from 15 to 22 inches below the ground surface. The ethylene glycol was detected in soil sample S-2 (Limited Closure Plan Report, September 18, 2005), collected near the former location of the antifreeze-filled freezer. The antifreeze was used to cool 20-pound field service cylinders prior to filling them with chlorine gas for use in Aqua Chlor's business. It is CCI's professional opinion the ethylene glycol detected at S-2 (at a depth of **15 inches**) is limited to the near surface clay soil in the immediate area near the sample location. This is based on the fact that the sample was collected from a very dense clay, which is prevalent throughout the site. It is CCI's opinion that ethylene glycol will become bound to the clay soil and will not migrate to any great extent from the former freezer area. Furthermore, soil samples S-1 and S-1A, located in front of and five feet away from the former freezer area, were reported to be free of detectable ethylene glycol, as was one other soil sample collected as a background sample at the site. This indicates there was no horizontal migration of ethylene glycol.

CCI's Work Plan is designed to demonstrate to the ACDEH that the ethylene glycol detected at S-2 is shallow and very localized.

CCI proposed to drill a single boring at the location of S-2 to a depth of 25 feet. Since the soil boring location is located within an existing steel-framed building, a conventional drilling rig (Mobile drill B-53 or equivalent) cannot be used; therefore, CCI proposed to use a track-mounted, BT-6600 drilling rig with low mast to drill the boring. It is CCI's professional opinion, based upon the previous investigation at the site, that a depth of 25 feet is more than sufficient to determine whether ethylene glycol has migrated beyond the 15-inch depth of sample S-2. If no soil contamination is detected in any of the boring samples to a depth of 25 feet, and/or groundwater is not encountered within that depth, the likelihood of the near-surface soil contamination impacting the water table is virtually nil. As CCI has indicated in its closure report, the contamination in S-2 is bound in dense clay; therefore, migration of contaminants would be very restricted. Ethylene glycol is mobile only if soil conditions allow such mobility. In order to confirm the density of the clay, CCI will collect an undisturbed sample of the clay and have it tested for density and permeability at Cooper Laboratory, located in Mountain View, California.

As CCI indicated in its Work Plan, if groundwater is encountered within the proposed soil boring depth, a grab water sample will be collected from the boring as follows: a temporary, 1-inch diameter, slotted casing will be placed through the hollow stem auger. A grab water sample will be collected using 3/8-inch diameter PVC tubing that is fitted with a small ball valve. Upon hydraulically pumping the tubing and forcing water through the tubing to the surface, the water sample will be collected in appropriate laboratory-supplied bottles, labeled, logged on a chain-of-custody form and stored in a chilled ice chest containing water ice for preservation in the field and during transport to a state-certified laboratory. Once sampling is completed, the temporary PVC casing will be removed and the holes will be sealed to the surface with Portland cement.

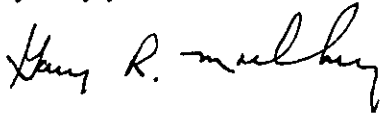
The ACDEH also indicated in its letter that it requires soil sampling of ethylene glycol in the freezer area *"based on past history of glycol spill and history of ongoing release of glycol coolant in the chlorine process area...."* CCI has been informed by Aqua Chlor that **there has been no history of ongoing releases of ethylene glycol at the subject site**. That statement in the ADCEH letter is inaccurate and misleading. The ethylene glycol on the surface was a result of drips from the small field cylinders used in Aqua Chlor's operations. There has never been a "spill" of ethylene glycol at the site and the concentration used by Aqua Chlor was 3 parts water to one part ethylene glycol. As stated in several previous documents submitted to ACDEH, Aqua Chlor stopped using the freezers and ethylene glycol solution at the site on or before January 2001; therefore, **there is no ongoing release** of glycol coolant.

Response Letter to Proposed Work Plan
Aqua Chlor Site
Page 3

It is CCI's professional opinion that its November 21, 2005 Work Plan takes into account specific conditions encountered during previous investigations conducted at the site and the proposed work plan is adequate and appropriate to determine whether Aqua Chlor's past use of ethylene glycol in its operation has impacted the subsurface beyond the shallow soil contamination encountered at sample location S-2. As CCI proposed in its work plan, in the event the investigation shows ethylene glycol to be present at the depth proposed, further investigation would obviously be necessary; however, it appears to be premature and unnecessarily costly to require a groundwater sample when the extent of vertical migration of ethylene glycol has yet to be determined.

Please feel free to contact this office if you have any questions.

Very truly yours,



Gary Mulkey, R.G. 5842

cc: Mr. John Wallace, Aqua Chlor
Mr. Ariu Levi, Alameda County Department of Environmental Health

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
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12/13/05

Mr. Jerry Wallace
AquaChlor
By Swim Chem
P.O.Box 417638
Sacramento, CA 95841

RE: Work Plan to Profile Soil Conditions at 15885 Altamont Pass Road
Tracy, California

Dear Mr. Wallace:

The Alameda County Department of Environmental Health (ACDEH) has reviewed the work plan to profile soil condition at the subject site submitted on November 29, 2005. The work plan was submitted in response to ACDEH letter dated November 18, 2005 requiring ground water investigation for ethylene glycol found in the soil.

AquaChlor used ethylene glycol as coolant in their chlorine transfer operation. ACDEH required soil sampling for ethylene glycol in the freezer area based on past history of glycol spill and history of ongoing release of glycol coolant in the chlorine process area. Of the two soil samples collected at the former freezers site, one had glycol concentration of 1700 milligrams/liter (ppm). The ACDEH is concerned of ground water impact because of the high mobility of ethylene glycol in soil.

Federal EPA has set a drinking water guideline for ethylene glycol of 7000 micrograms per liter of water (7000 ppb). The California Department of Health Standard (DHS) for drinking water for ethylene glycol is 14,000 ppb.

Compliance & Closure submitted the work plan to profile the area soil. The work plan does not provide information of the basis of soil profiling to a depth of 25 feet only and not to the ground water. The hydrogeology of the site vicinity should be taken into account and soil profiling must extend to ground water. A grab water sample shall be collected to assess the ground water impact.



AGENCY
DAVID J. KEARS, Agency Director

November 18, 2005

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Mr. Jerry Wallace
AQUA CHLOR
By Swim Chem
P.O.Box 417638
Sacramento, CA 95841

RE: Partial facility closure of the Aqua Chlor at 15885 Altamont Pass Road, Tracy, California; Closure of the Chlorine Operation

Dear Mr. Wallace:

The Alameda County Department of Environmental Health (ACDEH) has reviewed the Limited Closure Plan report submitted for the closure of the chlorine process at the AquaChlor facility at 15885 Altamont Pass Road in Tracy, California.

AquaChlor, a swim pool service provider, used chlorine for their services. AquaChlor used to store seven one-ton chlorine cylinders at their Tracy facility for their chlorine transfer operation. Chlorine was transferred to smaller 20-pound cylinders for on-site pool services. The total chlorine inventory at the Tracy facility exceeded the Federal Risk Management Plan (Fed RMP) and California Accidental Release Prevention Plan (Cal ARP) threshold quantity (TQ) for chlorine. AquaChlor submitted a copy of their RMP in June 1999. In December 2004, ACDEH required AquaChlor to submit an updated CalARP plan.

In order to reduce the risk, AquaChlor decided to substitute chlorine with a less toxic chemical, sodium hypochlorite, for their services. Accordingly, the chlorine cylinders were removed in February 2005.

ACDEH required a closure plan to be submitted for the removal of the chlorine process. AquaChlor obtained permit for a limited facility closure in June, 2005. Sampling was done in the areas of filling operation, the sodium hydroxide treatment tank used as the scrubber, the chlorine storage pit for pH, chloride and for ethylene glycol under the freezer. Sampling was also required for clean up of the sodium hydroxide tank, which AquaChlor intends to use for storing non-potable water. The closure report was submitted on September 26, 2005.

November 18, 2005

AQUA CHLOR
By Swim Chem
P.O.Box 417638
Page 2 of 2

A review of the analytical results submitted show that the pH of the samples collected (pH range 8.1 to 9.7) are in the range of the back ground in the area (pH 9.0). The chloride concentrations range from 1100 to 1800 mg/kg compared to the background of 920 mg/kg. is also in the acceptable range.

The ethylene glycol concentration in one of the freezer area is 1700 mg/kg. compared to non-detect concentration in the background. Compliance & Closure, the consulting firm retained by AquaChlor, recommended no further action based on the clay type surface soil.

In the absence of site specific soil composition data and considering the fact (stated in your report) that surface water often pools on site during the rainy season, a ground water grab sample must be collected to assess ground water impact. The need for further remedial action at this site will be based in part on these results.

Please submit a workplan that identifies the proposed methodology for obtaining a ground water sample and the analysis to be performed. This workplan should identify the contractors and state certified laboratories that shall perform the necessary activities and analysis.

If you have any question, please contact me at 510-567-6780 or Sukla De at 510-304-5446.

Sincerely,



S. Hugo

Susan Hugo
Supervising Hazardous Material Specialist

Sukla De, CIH
Consultant

CC: Gary Mulkey
Compliance & Closure

STATE OF CALIFORNIA - THE RESOURCES AGENCY

ARNOLD SCHWARZENEGGER, Governor

DEPARTMENT OF WATER RESOURCES

CENTRAL DISTRICT
3251 8 Street
Sacramento, CA 95816
(916) 227-7632
(916) 227-7600 (Fax)

NORTHERN DISTRICT
2440 Main Street
Red Bluff, CA 96080
(530) 528-7300
(530) 528-7322 (Fax)

SAN JOAQUIN DISTRICT
3374 East Shields Avenue
Fresno, CA 93728
(559) 230-3300
(559) 230-3301 (Fax)

SOUTHERN DISTRICT
770 Fairmont Avenue
Glendale, CA 91203
(818) 543-4900
(818) 543-4904 (Fax)

WELL COMPLETION REPORT RELEASE AGREEMENT-AGENCY
(Government and Regulatory Agencies and their Authorized Agents)

Project/Contract No. AQUA CHLOR, ALAMEDA County

Township, Range, and Section T. 2 S. R. 3 E. 1/2 mile Radius

(Must include entire study area and a map that shows the area of interest.)

Under California Water Code Section 13752, the agency named below requests permission from Department of Water Resources to inspect or copy, or for our authorized agent named below to inspect or copy, Well Completion Reports filed pursuant to Section 13751 to (check one):

Make a study, or,

Perform an environmental cleanup study associated with an unauthorized release of a contaminant within a distance of 2 miles.

In accordance with Section 13752, information obtained from these reports shall be kept confidential and shall not be disseminated, published, or made available for inspection by the public without written authorization from the owner(s) of the well(s). The information shall be used only for the purpose of conducting the study. Copies obtained shall be stamped CONFIDENTIAL and shall be kept in a restricted file accessible only to agency staff or the authorized agent.

Gary Mulkey
Authorized Agent

4115 Blackhawk Plaza Circle
Address STE. 100

DANVILLE, CA 94506
City, State, and Zip Code

Signature Gary R. Mulkey

Title Project manager

Telephone (925) 648-2008

Fax (925) 648-9672

Date 3/10/2006

E-mail Gary@CCI-ENR.COM

ALAMEDA CO. DEH
Government or Regulatory Agency

1131 HARBOR BAY PARKWAY
Address

ALAMEDA, CA 94502
City, State, and Zip Code

Signature Susan Z. Hugo

Title Supervising HMS

Telephone (510) 567-6780

Fax (510) 337-9335

Date March 10, 2006

E-mail susan.hugo@ac.gov.org

6 June 2001

Hugo, Susan, Env. Health

C
ar
Cl**Compliance & Closure, Inc.** 4115 Blackhawk Plaza Circle, Suite 100 Danville, CA 94506

Susan:

Attached is the updated release form. I just want to clarify that we did not set a hard date to have the Work Plan to you. As you may recall, I said give me a couple of weeks, because I needed time to do the well survey. However, after talking to Mr. Wyman Hong with Zone 7 Water Agency, he will most likely be able to get the well information to me sooner. Therefore, I will most likely have a Work Plan to you before March 22, 2006. As we discussed, you will have a response to the Work Plan within three weeks of receipt. I have tentatively scheduled a drilling rig for April 6, 2006. We can move that drill date back a week if we need to.

Please e-mail me back the form or fax it to (408-226-9672).

Thank you,

Gary Mulkey
(925) 580-2258

3/10/2006

STATE OF CALIFORNIA - THE RESOURCES AGENCY
DEPARTMENT OF WATER RESOURCES

ARNOLD SCHWARZENEGGER, Governor

CENTRAL DISTRICT
3261 8 Street
Sacramento, CA 95816
(916) 227-7632
(916) 227-7600 (Fax)

NORTHERN DISTRICT
2440 Main Street
Red Bluff, CA 96080
(530) 529-7300
(530) 529-7322 (Fax)

SAN JOAQUIN DISTRICT
3374 East Shields Avenue
Fresno, CA 93726
(559) 230-3300
(559) 230-3301 (Fax)

SOUTHERN DISTRICT
770 Fairmont Avenue
Glendale, CA 91203
(818) 543-4600
(818) 543-4604 (Fax)

WELL COMPLETION REPORT RELEASE AGREEMENT-AGENCY
(Government and Regulatory Agencies and their Authorized Agents)

Project/Contract No. Aqua chlon, Alameda County

Township, Range, and Section T. 2 S R. 3 E 1/2 mile Radius

(Must include entire study area and a map that shows the area of interest.)

Under California Water Code Section 13752, the agency named below requests permission from Department of Water Resources to inspect or copy, or for our authorized agent named below to inspect or copy, Well Completion Reports filed pursuant to Section 13751 to (check one):

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Gary Mulkey
Authorized Agent

Government or Regulatory Agency

4115 Blackhawk Plaza Circle
Address STE. 100

Address

DANVILLE, CA 94506
City, State, and Zip Code

City, State, and Zip Code

Signature Gary R. Mulkey

Signature

Title Project manager

Title

Telephone (925) 648-2008

Telephone ()

Fax (925) 648-9672

Fax ()

Date 3/10/2006

Date

E-mail Gary@CCI-ENR.COM

E-mail

6 June 2001