

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



RO# 1154

Alameda County CC4580
Environmental Health Services
1131 Harbor Bay Pkwy., #250
Alameda CA 94502-6577
(510)567-6700 FAX(510)337-9335

May 29, 1996
StID # 3740

Mr. William Calvert
National Convenience Store
100 Waugh Drive
Houston TX 77007

Mr. Frank Polito
9899 Hamilton Ave.
Fountain Valley, CA 92708

**Re: Closure of Monitoring Wells at 2710 Foothill Blvd., Oakland
CA, 94601**

Dear Messrs. Calvert and Polito:

This is to inform you that our office has received concurrence on the recommendation for site closure for the above referenced site. Prior to issuance of the Remedial Action Completion Certificate (RACC) we must receive documentation of the proper closure of the three (3) monitoring wells at the site. As an alternative, the RP may also provide a written statement indicating what type of regular inspection and safety precautions will be taken to insure the integrity of the existing wells.

Please notify me of your intentions in regards to the well so I may facilitate site closure.

You may reach me at (510) 567-6765 should you have any questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

cc: G. Coleman, files
MWcl2710

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R01154

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

March 10, 1993
StID # 3740

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

Mr. William Calvert
National Convenience Stores, Inc.
100 Waugh Drive
Houston, TX 77007

**Re: Comment on Request for Site Sign-off for 2710 Foothill Blvd.,
former Stop N Go, Oakland CA 94601**

Dear Mr. Calvert:

Our office has received and reviewed your March 1, 1993 letter requesting recommendation for site sign-off for the above site. It was your opinion that the three monitoring events performed in 1991 was sufficient to characterize the groundwater conditions of the site and since these concentrations were non-detectable for TPHg and BTEX, no further work should be required.

I would like to explain the requirements for recommendation for site sign-off. Minimally, the Water Board requires groundwater monitoring for a full hydrogeologic cycle. This would mean, under normal rainfall conditions, one full year. Not only was this not done but the groundwater monitoring in 1991 occurred during the Bay Area's extended drought, which has only recently returned to normal rainfall. With the likely rise in groundwater levels in the monitoring wells, this will be a better representation of groundwater conditions. Therefore, you must continue to monitor the three wells. Depending on the results, our office will reconsider this site for recommendation for site sign-off.

Enclosed please find the format for a report proposing case closure as provided by the Regional Water Quality Control Board, (RWQCB). You may contact me at (510) 271-4530 if you have any questions.

Sincerely,

Barney M. Chan, Hazardous Materials Specialist

enclosure (Mr. Calvert)

cc: G. Jensen, Alameda County District Attorney Office
R. Hiatt, RWQCB
F. Polito, 9899 Hamilton Ave., Fountain Valley, CA 92708
E. Howell, files
2-2710

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY

DAVID J. KEARS, Agency Director



R01154

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

January 12, 1992
StID # 3740

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

Mr. William Calvert
National Convenience Stores, Inc.
100 Waugh Drive
Houston, Texas 77007

Re: **Request for Quarterly Monitoring Report for Former Stop N Go
#1006, 2710 Foothill Blvd., Oakland CA 94601**

Dear Mr. Calvert:

Please be advised that the oversight of the remediation for the above site has been transferred to the Local Oversight Program (LOP) section of Alameda County Environmental Health, Hazardous Materials Division and that the new case worker is the undersigned Hazardous Materials Specialist. Our office has reviewed the tank closure report and the subsequent quarterly groundwater monitoring reports for the site. It appears that we have failed to receive any reports after the September 5, 1991 report. At this time our office requests copies of all quarterly monitoring reports subsequent to the September 5, 1991 report.

The three monitoring reports our office has 3/13/91, 6/25/91 and 9/5/91 indicate non-detectable concentrations of both Total Petroleum Hydrocarbons as gasoline, TPHg, and BTEX (Benzene, Toluene, Ethylbenzene and Xylenes). File notes from Mr. Paul Smith, your previous case handler, state that after the fourth quarterly monitoring event you intended to request site sign-off. Please be advised that in the event that you believe this site is eligible for site sign-off, you should provide in a report form, the information on the attachment. This guide was drafted by the Regional Water Quality Control Board (RWQCB) to provide uniformity and speed up the review and concurrence of recommendation for site sign-off by the RWQCB.

Please provide the requested monitoring and summary reports to our office **within 45 days** of receipt of this letter. You may contact me at (510) 271-4530 if you have any questions.

Sincerely,

Handwritten signature of Barney M. Chan in cursive.

Barney M. Chan
Hazardous Materials Specialist

enclosure (Mr. Calvert Only)
cc: G. Jensen, Alameda County District Attorney Office

R. Hiatt, RWQCB
F. Polito, 9899 Hamilton Ave., Fountain Valley, CA 92708
E. Howell, files 1-2710Ft

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R01154

August 16, 1991

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

ATTN: Mr. William Calvert

National Convenience Stores
100 Waugh
Houston, Tx 77007

RE: Project # 501A - R
at 2710 Foothill Blvd. in Oakland 94601

Dear Property Owner/Designee:

Our records indicate the deposit/refund account for the above project has fallen below the minimum deposit amount. To replenish the account, please submit an additional deposit of \$500.00, payable to Alameda County.

Please write your project number and site address on your check.

We must receive this deposit before we perform any further work on this project. At the completion of this project, any unused monies will be refunded to you or your designee.

If you have any questions, please contact Paul Smith at (415) 271-4320.

Sincerely,

Edgar B. Howell III, Chief
Hazardous Materials Division

EH:lp

cc: files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R01154

May 29, 1991

Mr. William Calvert
National Convenience Stores
100 Waugh Dr.
Houston, Texas 77007

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Re: Former Stop N Go #1006, 2710 Foothill Blvd., Oakland, CA
94601

Dear Mr. Calvert:

Alameda County Environmental Health Department Hazardous Materials Division has received the Limited Environmental Site Assessment Report dated April 26, 1991 and your letter dated May 13, 1991 requesting an exemption from the standard groundwater monitoring quarterly reporting protocol.

Your request for an exemption from collecting sampling data from all three of the existing monitoring wells and also for the reporting of the results on a biannual basis cannot be granted for the following reasons.

Page 7 of the above report states that "a groundwater gradient could not be established for the site at the time of our assessment and that the site may be located in the vicinity of a groundwater divide". Quarterly sampling from each of the three monitoring wells would provide valuable information in determining seasonal hydraulic gradient fluctuations if such fluctuations exist.

In the interest of securing site sign off four quarters of non detectable sampling from each of the three monitoring wells is necessary in determining that groundwater has not been impacted.

Regional Water Quality Control Guidelines as specified in the Tri-Regional Recommendations specify that the reporting requirement and the monitoring requirement must be performed on a quarterly basis. Any deviation from this requirement would need to be authorized by the San Francisco Regional Water Quality Control Board.

If you have any questions with regard to the content of this letter please contact this office at 415/ 271-4320.

Sincerely:

Paul M. Smith
Hazardous Materials Specialist

cc:

Mark Miller, Law Environmental
Lester Feldman, SFRWQCB
Howard Hatayama, DHS
Gil Jensen, Alameda County District Attorney's Office of
Consumer and Environmental Protection

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R01154

February 14, 1991

Mr. William Calvert
National Convenience Stores
100 Waugh Dr.
Houston, Texas 77007

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

**Re: Workplan For Monitoring Well Installation, Former Stop N
Go #1006, 2710 Foothill Blvd., Oakland, CA 94601**

Dear Mr. Calvert:

We have received the proposed workplan for the installation of monitoring wells, dated February 4, 1991, prepared by Law Environmental for the above site. The workplan is hereby approved with the following conditions:

Analytical data from groundwater samples are to be taken from each of the three monitoring wells until contaminant levels have been established in each. Negotiations with this department regarding the type and frequency of groundwater sampling of upgradient monitoring wells can be worked out after these levels have been adequately established.

When installing each well the workplan specifies that only one sample be analyzed per boring. Due to the collection of only 2 confirmation samples following the over excavation which occurred to remove contaminated soil from the former tank excavation, sampling and chemical analysis of soil samples are required at 5 foot intervals for each well boring. Samples should be analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) and Benzene, Toluene, Xylene, and Ethyl benzene (BTEX).

Please notify this department of the date and time of monitoring well installation with as much advance prior notification as possible. If you have any questions please direct them to me at 271-4320.

Sincerely:

Paul M. Smith
Hazardous Materials Specialist

cc:

Mark Miller, Law Environmental
Lester Feldman, SFRWQCB
Howard Hatayama, DHS
Gil Jensen, Alameda County District Attorney's Office of
Consumer and Environmental Protection
Rafat A. Shahid, Assistant Agency Director, Alameda County
Environmental Health Department

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R01154

November 27, 1990

Mr. William Calvert
National Convenience Stores Inc.
100 Waugh Dr.
Houston, Texas 77007

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

**RE: Site Remediation at the Former Stop N Go #1006
2710 Foothill Blvd., Oakland 94601**

Dear Mr. Calvert:

This letter is in response to your request for a variance from the requirement of the installation of a groundwater monitoring well at the above site. Over excavation of initially contaminated soils yielded a non detectable (ND) analyses in both locations for the presence of Total Volatile Hydrocarbons and the presence of 150 ppb benzene, 42 ppb xylene in one of the 2 samples .

Upon consultation with the Regional Water Quality Control Board it was agreed that an exemption to the water monitoring well requirement could be granted if it could be demonstrated that each of the following geologic conditions exist at the site:

There is a distance of at least 20 feet between soil contamination and groundwater.

Within the 20 foot vadose zone, it can be demonstrated that at least 5 feet of the distance is of a consistency which is impervious to the migration of petroleum fuel constituents.

If both of the above criteria cannot be satisfactorily demonstrated then you are required to install monitoring wells to investigate the potential to groundwater at this site.

You are required to submit to this office within 30 days of the receipt of this letter a proposal to adequately the potential groundwater contamination issue at the above location.

If you have any questions please contact me at (415) 271-4320.

Sincerely,

Paul M. Smith
Hazardous Materials Specialist

cc:

Lester Feldman, RWQCB
Howard Hatayama, DHS
Gil Jensen, Alameda County District Attorney's Office of
Consumer and Environmental Protection
Rafat A. Shahid, Asst. Agency Director
Al Berryhill, Law Engineering, Houston,
Kurt Lampi, Law Engineering, Austin

LS

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY

DAVID J. KEARS, Agency Director



R01154

October 15, 1990

Mr. William Calvert
Environmental Manager
National Convenience Stores Incorporated
100 Waugh Drive
Houston, Texas 77007

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

**Subject: Site Remediation at the former Stop N Go # 1006
2710 Foothill Blvd., Oakland 94601**

Dear Mr. Calvert:

We have received the Report of Underground Storage Tank Removal dated October 1989 prepared by Law Engineering. Upon reviewing the report and accompanying analytical lab results it became apparent that in the initial soil samples taken from the native fill beneath the tanks contained significant levels of contamination as high as 470 ppm of Total Petroleum Hydrocarbons.

According to the August 10, 1990 Tri-Regional Water Quality Control Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground tank sites, when the concentrations of Total Petroleum Hydrocarbon (TPH) and/or Total Oil and Grease (TOG) within the first 2 feet of native soil exceeds 100 ppm a soil/groundwater investigation is required. A copy of this document can be obtained by contacting the San Francisco Regional Water Quality Control Board at (415) 464-1255. The latest edition of the above document is August 10, 1990.

You are therefore required to install one monitoring well within 10 feet of the tank in the verified downgradient direction. The verified downgradient direction must have been determined using data from a minimum of three monitoring wells, piezometers or other appropriate techniques. These monitoring wells and piezometers should have been completed in the same water-bearing zone and constructed in the same manner. **If verified downgradient direction data is not available, then a minimum of three monitoring wells will be required to determine the verified downgradient direction.**

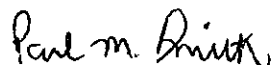
Quarterly monitoring reports are required for at least one year. Groundwater samples are to be analyzed by a California State Certified Laboratory for the presence of dissolved and free floating constituents. A groundwater gradient map shall be developed for every water level data set.

Mr. Calvert
October 11, 1990
Page 2 of 2

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You are requested to submit to this office a workplan for the installation of groundwater monitoring wells within 30 days of the receipt of this letter. If you have any questions please contact this office at (415) 271-4320.

Sincerely,



Paul M. Smith

cc:

Lester Feldman, Regional Water Quality Control Board,
San Francisco Bay Region
Howard Hatayama, State Department of Health Services
Gil Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Division
Kurt Lampi, Diana Slagle, John Henbrow-Beach, Law Engineering
Paul M. Smith, Alameda County Hazardous Materials Division
Files

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



R01154

Certified Mailer #: P 062 128 271

August 21, 1990

Mr. Steven Hayes
National Convenience Stores Incorporated
100 Waugh
Houston, Texas 77007

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Subject: Site Remediation at the former Stop N Go # 1006
2710 Foothill Blvd., Oakland 94601

Dear Mr. Hayes:

Our department has received the analytical lab results taken following the tank removals and also following the over excavation which occurred at the above site. The lab results indicated contamination levels necessitating the identification of the extent of the problem which has occurred at the above site.

To complete contaminant assessment and begin remediation, we require that you submit a work plan which, at a minimum, addresses the items listed below and presents a timetable for their completion. Please submit this work plan within 30 days of the date of this letter.

Our office will be the lead agency overseeing both the soil and ground water remediation of this site. The San Francisco Bay Regional Water Quality Control Board (SFRWQCB) is currently unable to oversee the large number of fuel cases within Alameda County and has delegated the handling of this case to our Division. We will be in contact with the SFRWQCB in order to provide you with guidance concerning the SFRWQCB's remediation requirements. However, please be aware that you are responsible for diligent actions to protect the waters of the State.

All work must be performed according to the following SFRWQCB documents:

- * Regional Board Staff Recommendations for Initial Evaluation and Investigation of Underground Tanks, 2 June 1988, revised 10 August, 1990 (2 June 1988 SFRWQCB document); and
- * Appendix A for above, 1 July 1988, revised 3 April 1989.

August 21, 1990

Copies of these documents can be obtained by calling the SFRWQCB data management group at (415) 464-1269. Please note the LUFT manual as a whole has not been adopted by the SFRWQCB.

Items to Address:

- .. Immediate initiation of free product removal.
- .. Site history.

This shall include historic site use and ownership information, a description of the types and locations of any hazardous materials used on site, a description of any known hazardous materials spills, leaks or accidents, and the installation and use history (installation and use dates, types of materials contained) of all the underground tanks used on site.

- .. Determination of the vertical and lateral extent of soil contamination.

The investigative work done to date does not adequately define the horizontal or vertical extent of soil contamination. The extent of soil contamination related to the diesel, gasoline and waste oil tanks and their associated piping must be investigated. The method by which the contaminated soil extent will be determined must be described.

- A. If a soil gas survey is planned, the location of survey points must be identified along with the analytical methods and techniques to be used. A quality assurance plan for field analyses must be submitted.
 - B. If soil samples are to be collected for contamination delineation, consult the SFRWQCB guidelines and the LUFT manual for soil sampling protocols. During drilling of all boreholes and monitoring wells, undisturbed soil samples are to be collected at a minimum of every five feet in the unsaturated zone and at any changes in lithology for logging and analytical purposes. Borings and wells are to be permitted through Alameda County Flood Control and Water Conservation District, Zone 7. Borings and wells shall be logged from undisturbed soil samples. Logs shall include observed soil odors; blow counts shall be expressed in blows per 6 inches of drive.
 - C. Soil samples are to be analyzed by a California State Certified Laboratory for the appropriate constituents (see Attachment 1, Table 2, 2 June 1988 SFRWQCB document).
- .. Definition of the horizontal and vertical extent of the ground water pollution plume, both on and off site.

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The extent of the floating product plume and the dissolved constituent plume has not been defined.

- A. The exact location of the contaminant source must be identified. Include in the rationale for source identification the results of inventory record checks, of tank tightness tests, and of all other efforts to determine the contaminant source.
- B. Additional monitoring wells are required to determine the extent and magnitude of the free product and dissolved product plumes.
- C. Monitoring and extraction wells should be designed and constructed to be consistent with the SFRWQCB guidelines and to permit entrance of free product into the wells. Filter pack and slot sizes for all wells should be based on particle analysis (ASTM D-422) from each stratigraphic unit in at least one boring on the site and on the type of ground water contaminants present. The well screen must be situated to intercept any floating product from both the highest and lowest ground water levels. All wells shall be surveyed to mean sea level to an established benchmark to 0.01 foot.
- D. Free product thicknesses and water levels must be measured and wells must be sampled.

Measure free product thicknesses and water levels in all wells weekly for one month and then as part of every sampling event. Free product measurements must be made with an optical probe or other device which has been shown to be of equivalent accuracy. A ground water gradient map shall be developed for every water level data set. If the gradient fluctuates, water level measurements must continue to be made monthly until a gradient pattern is established. Fluctuations in ground water levels due to tidal action should also be documented.

For three consecutive months, monitoring wells shall be sampled monthly for dissolved constituents. Free product

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thickness and water level measurements must be made in all wells before any purging or sampling activities are begun. After three consecutive months of sampling, sampling may be conducted as needed for remediation purposes but must be done at least quarterly for all monitoring wells.

- E. Ground water samples are to be analyzed by a California State Certified Laboratory for the appropriate constituents (see Attachment 1).
- F. Groundwater levels and quality must be monitored for a minimum of one year, even if no contamination is identified.

_. Interpretation of hydrogeologic data.

- A. Water level contour maps showing ground water gradient direction, and free and dissolved product plume definition maps of each contaminant constituent should be prepared routinely and submitted with other sampling results.
- B. The hydrogeologic characteristics of the aquifer must be described. An estimate of vertical transmissivity, based on a laboratory permeability test or a pump test, is required for any unit identified as a clay. Identification of the clay should be verified by particle analysis (ASTM D-422).
- C. Geologic cross-sections should be prepared as specified in Attachment 2 using appropriate boring logs.
- D. The cross sections, ground water gradients (horizontal and vertical), and any tidal effects should be interpreted to explain pollution migration patterns.

_. Determination of the potential short- and long- term impact of the pollution plume on the beneficial uses of ground and surface water in the area.

Beneficial uses of ground and surface water in the area which might be impacted by this site must be identified. Evaluation of the actual or potential short and long term impacts of this site on these beneficial uses is also required. Examples of beneficial uses include irrigation water supply, ground water recharge, fresh water habitat, wildlife habitat, contact and non contact recreation, and fish migration.

_. Development of a remediation plan.

- A. A remediation plan for the site shall be developed. This plan is to include a time schedule for remediation plan implementation and, at a minimum, must address the following issues:

August 21, 1990

- i) Removal of all free product by an appropriate remediation system. Specific information on the system must be submitted. Manual bailing of fuel product is not acceptable as a recovery system, nor is a system which increases soil contamination (a free product removal system which creates a cone of depression could increase soil contamination). Actual amounts of free product removed must be monitored and tabulated.
 - ii) Remediation of any contaminated soils and dissolved constituents such that beneficial uses of the ground and surface waters are restored or protected as required by the State Water Resources Control Board's Resolution No. 68-16, "Policy With Respect to Maintaining High Quality of Waters in California". A plan for cleanup of the known dissolved product plume should be submitted. Soil contaminated with 1000 ppm or greater total petroleum hydrocarbons must be remediated. Soil having hydrocarbon levels between 100 and 1000 ppm must be either remediated or, if sufficient evidence is provided which indicates no adverse effects on ground water will occur, left as is with implementation of a ground water monitoring program. Cleanup of soils to less than 100 ppm is strongly recommended in order to minimize the impact of residual soil contamination on ground water quality.
 - iii) Design of a ground water remedial action system which is based on appropriate review of hydrogeologic and water quality data and on evaluation of mitigation alternatives. Aquifer test data (pump- and/or slug-testing) should be used to determine aquifer characteristics and the probable capture zone(s) of extraction system(s). The overall effectiveness of the remediation system should be verified by an appropriate monitoring program.
- B. Mitigation involving on-site treatment of hazardous wastes requires a variance from the State of California Department of Health Services (DHS). In addition, such on-site treatment may also require permits from the SFRWQCB and the Bay Area Air Quality Management District (BAAQMD). Off-site storage or treatment of hazardous wastes also requires permits from DHS, SFRWQCB, and BAAQMD.

Variations may be applied for at either the DHS regional office in Emeryville (Permitting Section) or the DHS office in Sacramento (Alternative Technology Section, ATS). In the event on-site treatment is considered, we recommend that you and your consultant contact or meet with ATS to discuss the type of remediation most

August 21, 1990

appropriate for the site and to discuss the information needed in a variance application. The following people can be contacted at ATS with remediation and variance application questions: Mr. John Wesnousky, Mr. Tej Pahwa, and Mr. Ken Smarkel. They can be reached at (916) 324-1807. In the event on-site treatment is used, the DHS office issuing the on-site treatment variance will oversee only the treatment technology. The extent and degree of cleanup will still be overseen by our office and the SFRWQCB.

- C. Implementation of remedial plans for free product, polluted soils, and dissolved constituents may be appropriate prior to full definition of the extent of pollution. If remedial action is to be postponed pending further investigation, a rationale for this proposal should be provided.

Reporting

- A. Monthly reports must be submitted for the next three months with the first report due on November 21, 1990. These reports should include, at a minimum, results of water level and water quality sampling, gradient determination and gradient maps, and contamination plume maps.
- B. Quarterly reports must be submitted beginning on February 21, 1991. These reports should describe the status of the investigation and cleanup and should include the following:
- * Details and results of all work performed during the quarter (e.g. records of field observations and data, boring and well construction logs, water level data, chain-of-custody forms, laboratory-originated analytical results for all samples collected, tabulations of soil and ground water contaminant concentrations, tabulations of free product thicknesses, tabulation of amount of free product removed, etc.);
 - * Status of soil contamination characterization;
 - * Status of ground water contamination characterization;
 - * Status of soil contamination remediation;
 - * Status of dissolved constituent remediation and free product removal (e.g. estimated starting date, daily flow records, evaluation of remediation system performance, etc.);

August 21, 1990

- * Interpretation of the results (e.g. water level contour maps showing ground water gradient direction, free and dissolved product plume definition maps of each constituent, tidal effects, cross sections, etc.);
 - * Plans or recommendations for additional investigative work or remediation; and
 - * Copies of TSDF to Generator manifests for any hazardous wastes hauled off site.
- C. All reports and proposals must be signed by a California-Certified Engineering Geologist, California-Registered Geologist or a California-Registered Civil Engineer (see page 2, 2 June 1988 SFRWQCB document). A statement of qualifications for each lead professional should be included in all workplans and reports.
- D. Each technical report should be submitted with a cover letter from National Convenience Stores Incorporated and received in this office by the established due date. The letter must be signed by a principal executive officer or by an authorized representative of that person.

_. Site Safety Plan.

All proposals, reports and analytical results pertaining to this investigation and remediation must be sent to our office and to:

Lester Feldman
Regional Water Quality Control Board, San Francisco Bay Region
1800 Harrison Street, Suite 700
Oakland, California 94612
(415) 464-1255

You should be aware that this Division is working in conjunction with the SFRWQCB and that this is a formal request for technical reports pursuant to California Water Code Section 13267 (b). Failure to respond or a late response will result in referral of this case to the SFRWQCB for enforcement and may subject National Convenience Stores Incorporated to civil liabilities imposed by the

August 21, 1990

SFRWQCB to a maximum amount of \$1,000 per day. Any extensions of agreed-upon time deadlines must be confirmed in writing by either this Division or the SFRWQCB.

I have recently taken over this case from Mr. Larry Seto, Senior Hazardous Materials Specialist therefore any future correspondence should be addressed to me. If you have any questions please do not hesitate to contact me at (415) 271-4320.

Sincerely,

Paul M. Smith

Paul M. Smith,
Hazardous Materials Specialist

attachments

cc:

Lester Feldman, Regional Water Quality Control Board,
San Francisco Bay Region
Howard Hatayama, State Department of Health Services
Gil Jensen, Alameda County District Attorney, Consumer and
Environmental Protection Division
Diana Slagle, John Henbrow-Beach, Law Engineering
Paul M. Smith, Alameda County Hazardous Materials Division
Files

GEOLOGIC CROSS SECTIONS**CROSS SECTION CONSTRUCTION**

The location of the cross section must be shown on a plan view map at the same scale as the cross section.

Cross section scale:

1. Horizontal scale should not exceed 1 in. = 200 ft.
2. Vertical exaggeration should not exceed 10X. The vertical scale should permit the depiction of a sandy zone 6 in. thick.

The ground surface should be represented accurately, after all the wells have surveyed elevations (top of casing and ground surface).

INFORMATION TO BE SHOWN ON CROSS SECTIONS**Stratigraphic and Structure Information:**

1. Sediment types present, including fill, should be accurately represented on the cross sections. The sediment types should be readily recognized from the boring logs. The explanation should be detailed. Formation boundaries may be shown if they are present.
2. Position of impoundments, tank excavations, or other contaminant sources should be shown.
3. The cross section should also accurately depict:
 - a) Position of wells and borings with identifying numbers.
 - b) Position of well screens and filter pack.
 - c) Position of encountered water, with dates if applicable.

Contaminant Information:

Using the first cross section, construct additional cross sections showing the areas of the following contaminants and the direction of contaminant movement:

- 1) Soil contamination
- 2) Free product (floating portion) - "floaters"; show each constituent separately
- 3) Dissolved contamination; show each constituent separately
- 4) Contaminants heavier than water (if present) - "sinkers"; show each constituent separately