

August 20, 2013

Mr. Peter Mizera (USTClosuresComments@waterboards.ca.gov)
State Water Resources Control Board
1001 I Street, 16th Floor
Sacramento, CA 95814

Subject: Comment Letter – Nguyen Property Case Closure Summary, 960 King Road, San Jose, CA 95116

Dear Mr. Mizera,

The Santa Clara Valley Water District (District) is submitting the following comments on closure of the subject fuel leak site. The Santa Clara Valley Water District (District) is the groundwater management agency for Santa Clara County and also provides flood protection, stream stewardship, and water supply for the nearly two million residents of the county. Nearly half of the water used in the county comes from groundwater, and in the southern portion of the county, it is the sole drinking water supply source. Most public water systems in the county do not require wellhead treatment and the District works to aggressively protect groundwater in accordance with District Board policy.

The District believes that the Nguyen Property fuel leak case does not meet the closure criteria for the following reasons:

- The extent of contamination has not been defined. Based on the First Quarter 2010 Groundwater Monitoring Report the groundwater flow direction is generally toward the northwest. Well STMW-3, located approximately 25 feet northwest of the existing tanks, is the most down-gradient monitoring point, and 1,000 micrograms per liter (ug/L) of t-butyl alcohol (TBA) was detected in the last sample collected from this well in May 2011.

The Responsible Party's (RP's) consultant concluded that the extent of contamination was not defined in the Second Quarter 2008 Groundwater Monitoring Report (the most recent report prior to the First Quarter 2010). As no further site investigations have been completed, this conclusion remains valid.

- Our records indicate there is an active water supply well and potentially two abandoned wells in the site vicinity. The active water supply well is located approximately 320 feet southwest of the fuel islands. The abandoned wells are approximately 50 feet southwest and 800 feet north-northwest of the fuel islands.



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The Santa Clara County Department of Environmental Health's comment letter on closure of this site (attached) provides additional rationale for denying closure of this site. The District shares similar concerns regarding closure of the Nguyen Property.

The District supports the State Board's effort to pursue closure of sites that no longer pose a threat to human health and the environment. Prior to considering this case for closure, the District believes the following actions at a minimum, are required:

- The lateral and vertical extent of contamination must be defined.
- An effort should be made to locate and properly destroy the nearest abandoned well, if necessary.
- A sample should be collected from the nearby water supply and analyzed for fuel constituents and oxygenates.

Additional actions, such as remediation, may or may not be required depending up the findings of the investigation of the extent of contamination.

In summary, the District is concerned with closure of this case as the extent of contamination is not defined and there are nearby active water supply and abandoned wells. The District encourages the State Board to protect Santa Clara County's groundwater subbasins and require the appropriate investigation of all fuel leak sites, which includes defining the extent of contamination.

If you have any questions, please call me at (408)630-2964.

Sincerely,



George E. Cook Jr.
Associate Engineering Geologist
Groundwater Monitoring and Analysis Unit
Santa Clara Valley Water District

Attachment: Santa Clara County Department of Environmental Health Letter Dated August 14, 2013

cc: Michael Balliet, Santa Clara County Department of Environmental Health
Nathan King, Regional Water Quality Control Board, San Francisco Region
Geoff Blair, City of San Jose Environmental Services Department
Bill Dugan, WellTest
B. Ahmadi, V. De La Piedra

County of Santa Clara

Department of Environmental Health

1555 Berger Drive, Suite 300
San Jose, California 95112-2716
(408) 918-3400
www.EHinfo.org



August 14, 2013

Mr. Pete Mizera (USTClosuresComments@Waterboards.ca.gov)
State Water Resources Control Board
1001 I Street, 16th Floor
Sacramento, California 95814

Subject: Comment Letter – Nguyen Property Case Closure Summary Petition

Fuel Leak Investigation at Nguyen Property, 960 South King Road, San Jose, CA,
Case No. 14-230, SCVWDID No. 07S1E10H01f

Dear Mr. Mizera:

The Department of Environmental Health (DEH) received your Notice of Opportunity for Public Comment on the UST Case Closure Review Summary Report (State Closure Summary Report), signed on June 12, 2013 (received by the DEH on June 21, 2013). The public comment period closes on August 20, 2013. The DEH's comments are listed after the State Board's statements.

Issue 1

State Board Statement – *According to groundwater data, water quality objectives (WQOs) have been achieved or nearly achieved for all constituents except for MTBE in one source monitoring well.*

DEH Comment – Groundwater data shows that WQOs have not been achieved or nearly achieved. The most recent groundwater samples were collected in 2011. During that sampling groundwater from well STMW-3 contained 1,000 parts per billion TBA. No wells are located downgradient from this well. In addition, the grab groundwater sample collected from GP-1 contained 8,000 ppb TPH-g, 350 ppb MTBE and 130m ppb benzene.

The Groundwater Flow Direction Rose Diagram (Rose Diagram) illustrates the gradient direction from 2002 to 2010. The Rose Diagram shows that the historical gradient varies between west-southwest to northwest and that STMW-3 and GP-1 are located directly downgradient from the former USTs and pump islands.

For your convenience a copy of the Certified Analytical Report listing the groundwater sampling results from the 2011 event and the most recent Groundwater Flow Direction Rose Diagram

(Rose Diagram) which illustrated the gradient direction from 2002 to 2010 is attached to this Directive Letter.

Issue 2

State Board Statement – *According to data available in Geotracker, there are no supply wells regulated by the California Department of Public Health or surface water bodies within 250 feet of the defined plume boundary in files reviewed.*

DEH Comment – A groundwater production well is located approximately 290 feet to the west-southwest of the site's property line. This well is discussed in the Conduit Study – Nguyen Property (GeoRestoration, September 3, 2002) and is noted on the DEH groundwater production well data base (well number 07S01E10H004). According to historical gradient information presented in the Rose Diagram, the well is located in a downgradient direction from the site.

The three sampling points (STMW-3, GP-1, and IB-1) located in the western portion of the site indicate that the plume has moved beyond the sampling network. For example, when groundwater from STMW-3 was last sampled in 2011 it contained 1,000 ppb TBA. Only soil samples were collected from the soil boring for IP-1. The highest detections were from the samples collected at a depth of 14 feet below ground surface which is approximately 2 feet below groundwater. This indicates that the transport mechanism was by groundwater flow. No sampling points are downgradient of STMW-3 and IP-1. Consequently, the plume boundary is not defined and the distance from the edge of the plume, as defined by WQOs, cannot be determined. In addition, it is not possible to accurately determine if the active water production well which is located downgradient of the site is at risk.

Issue 3

State Board Statement – *The contaminant plume that exceeds water quality objectives is less than 100 feet in length. There is no free product, and the nearest water supply well or surface body is greater than 250 feet from the defined plume boundary.*

DEH Comment – As stated above, the DEH does not believe that the file supports the conclusion that the contaminant plume is defined. The DEH is concerned that the 2011 entire site file including data from the 2011 groundwater sampling event has not been included in the State's review. The table showing the most recent concentrations of petroleum constituents in groundwater is on page 8 of the State's Closure Summary Report. The table includes data up to 2010 and lists the highest TBA detection as 16 ppb. It should be noted that in 2011 groundwater samples were collected. The highest detected TBA was 1,000 ppb from the sample collected from well STMW-3. It appears that this data was not included in the State's analysis of the site conditions.

It is important to emphasize that a groundwater production well is located 290 feet from the property line in a downgradient direction according to the Rose Diagram. The DEH believes that it is reckless to assume that the downgradient extent of a plume is defined by a well with high

contaminant concentrations (i.e., 1,000 ppb TBA in well STMW-3).

Issue 3

State Board Statement – *Soil vapor intrusion is not required because the site is an active commercial petroleum fueling facility.*

DEH Comment – The LTCP exempts active commercial petroleum fueling facilities from assessment related to vapor intrusion to indoor air. In cases where contamination has migrated off-site, it may be appropriate to conduct soil vapor assessment in the portion of the plume outside the boundaries of the active commercial petroleum fueling facility. The groundwater plume is currently not defined. After the plume is defined, it will be necessary to determine if an off-site soil vapor assessment is required.

Issue 4

State Board Statement – *The case meets Policy Criterion 3b. A professional assessment of site-specific risk from exposure shows that maximum concentrations of petroleum constituents in soil will have no significant risk of adversely affecting human health.*

DEH Comment – A risk assessment is not present in the project file. The DEH is unclear who performed a risk assessment and made the determination that petroleum constituents in soil will have no significant risk of adversely affecting human health. Please provide a citation for the inferred risk assessment.

Issue 5

State Board Statement – *The extent of the plume with petroleum hydrocarbon constituents above water quality objectives has been defined by the analytical results of non-detect in two downgradient wells, MW-3 and MW-4 (STMW-3 and STMW-4).*

DEH Comment – Four sampling points are located downgradient of the former USTs and pump islands: STMW-3, STMW-4, GP-1 and IB-1. The most recent groundwater sampling event for STMW-3 was in 2011 (data attached). The groundwater sample collected from GP-1 contained 8,000 ppb TPH-g, 350 ppb MTBE and 130 ppb benzene. These two sampling points are located along the northern property line, upgradient of an apartment complex, and downgradient of the former USTs and pump islands. No sampling points are located downgradient of STMW-3 and GP-1.

Soil samples collected from IB-1 detected low to non-detectable concentrations of contaminants at 5 and 10 feet bgs. Much higher concentrations were detected at a depth of 14 feet bgs. The depth to groundwater is approximately 11 feet bgs. It appears that groundwater migrated in a westerly direction from the former USTs causing soil impact at IB-1. IB-1 is located upgradient of the water production well and downgradient from the former USTs and pump islands. No sampling points are located downgradient of IB-1.

The extent of the groundwater plume is not defined. Analytical detections from samples collected from STMW-3, GP-1 and IB-1 clearly indicate that the plume has migrated beyond the confines of the soil and groundwater sampling network and is not defined.

Issue 6

State Board Statement – *The Policy Criterion 1 by Class 1 lists 250 feet from the defined plume boundary as the distance necessary to provide an adequate buffer. In addition, the only detection of petroleum hydrocarbons in a monitoring well is in monitoring well MW-1 (STMW-1) in the source area.*

DEH Comment – The site data does not support the conclusion that the groundwater plume is defined. This issue is addressed in DEH the comments listed above. It is important to emphasize that the State's Closure Summary Report appears to not include the most recent groundwater data.

The DEH does not agree with the statement that “the only detection of petroleum hydrocarbons in a monitoring well is in monitoring well STMW-1 in the source area.” The most recent sampling event took place in 2011. The highest detections were from the sample collected from STMW-3 which is located next to the downgradient property line. During that event 1,000 ppb TBA was detected. Sample results from STMW-3, GP-1 and IB-1 indicate that the groundwater plume has migrated beyond the sampling network. Consequently, the groundwater plume is not defined and the distance from the edge of the plume to the water production well cannot be measured.

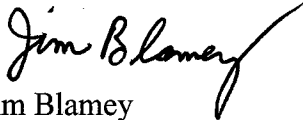
Issue 7

State Board Statement – *The relative concentration of naphthalene in soil can be conservatively estimated using the published relative concentrations of naphthalene and benzene in groundwater. Taken from Potter and Simmons (1998), gasoline mixtures contain approximately 2 percent benzene and 0.25 percent naphthalene. Therefore, benzene can be directly substituted for naphthalene concentrations with a safety factor of eight.*

DEH Comment – In a letter to the State (DEH Comment Letter, Western States Oil Case Closure Summary Petition, July 8, 2013) the DEH provided comments on the State's determination that in soil, the concentration of naphthalene can be determined by the concentration of benzene. As of the date of this letter, the DEH has not received a response from the State.

If you have any questions, please feel free to contact the Site Mitigation Program's Manager Michael Balliet at (408) 918-1976 or the Environmental Health Geologist Gerald O'Regan at (408) 918-1974.

Sincerely,



Jim Blamey
Acting Director

Attachments: Groundwater Analytical Data, prepared by McCampbell Analytical, Inc., date sampled: May 8, 2011.

Groundwater Chemistry Map, prepared by WellTest, Inc., February 2 and 23, 2007 (Includes Groundwater Flow Direction Rose Diagram).

cc: Nathan King, Regional Water Quality Control Board – SF Bay
(nking@waterboards.ca.gov)
George Cook, Groundwater Monitoring and Analysis Unit, Santa Clara Valley Water District (gcook@valleywater.org)
Geoff Blair, Environmental Services Department, City of San Jose
(Geoffrey.Blair@sanjoseca.gov)
Bill Dugan, WellTest (dugan@welltest.biz)
File



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Well Test, Inc. 1180 Delmas Avenue San Jose, CA 95125	Client Project ID: #2488; Nguyen Property	Date Sampled: 05/08/11
	Client Contact: Bill Dugan	Date Received: 05/11/11
	Client P.O.:	Date Extracted: 05/12/11-05/16/11
		Date Analyzed: 05/12/11-05/16/11

Oxygenates, MBTEX & Lead Scavengers by GC/MS*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 1105316

Lab ID	1105316-001A	1105316-002A	1105316-003A		Reporting Limit for DF=1
Client ID	MW-1	STMW-3	STMW-4		
Matrix	W	W	W		
DF	1	10	1		

Compound	Concentration			ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND	ND<5.0	ND	NA	0.5
Benzene	16	7.1	2.9	NA	0.5
t-Butyl alcohol (TBA)	19	1000	ND	NA	2.0
1,2-Dibromoethane (EDB)	ND	ND<5.0	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	7.3	ND	NA	0.5
Diisopropyl ether (DIPE)	ND	ND<5.0	ND	NA	0.5
Ethylbenzene	5.1	ND<5.0	1.9	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND	ND<5.0	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	30	ND<5.0	ND	NA	0.5
Toluene	8.4	6.5	3.2	NA	0.5
Xylenes	43	31	15	NA	0.5

Surrogate Recoveries (%)

%SS1:	79	95	94	
%SS2:	87	99	100	
%SS3:	84	94	98	
Comments	b1	b1	b1	

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

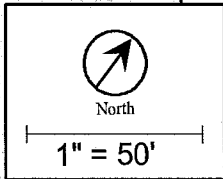
ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

b1) aqueous sample that contains greater than ~1 vol. % sediment



Apartment Building

Tennyson Lane

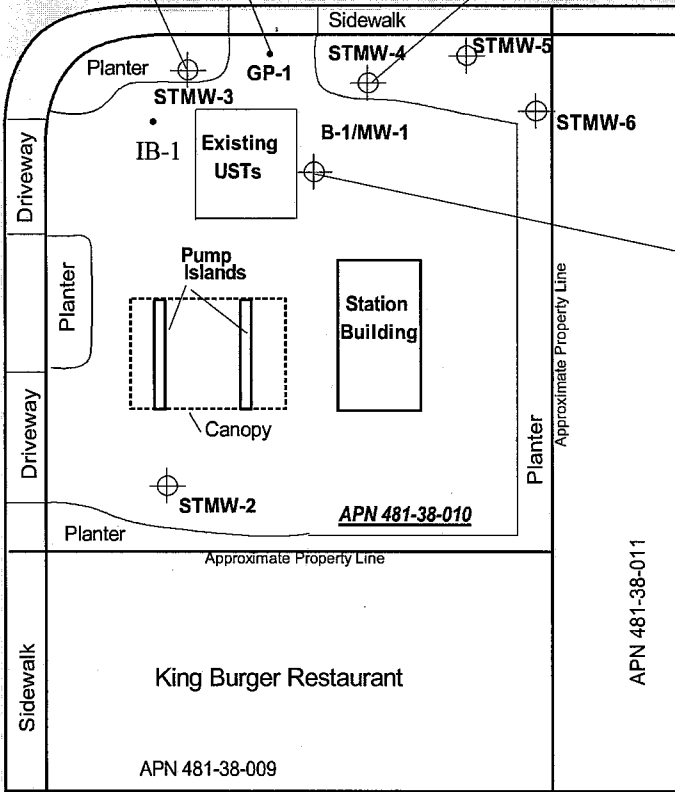
02/23/07
 TPHg 62 ug/L
 MTBE 250 ug/L
 Benzene 1.0 ug/L

02/02/07
 TPHg 8,000 ug/L
 MTBE 350 ug/L
 Benzene 130 ug/L

02/23/07
 TPHg <50 ug/L
 MTBE <5.0 ug/L
 Benzene <0.5 ug/L

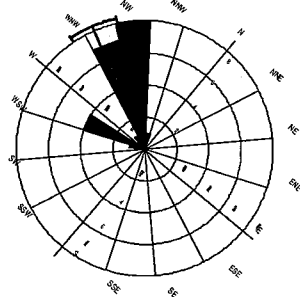
Lido Way

South King Road



02/23/07
 TPHg 2,000 ug/L
 MTBE 220 ug/L
 Benzene 51 ug/L

Groundwater Flow Direction
 Rose Diagram 12/28/02 to 03/10/10



Legend

- = Proposed Source-Area Test Well
- = Groundwater Well
- = Boring

WellTest, Inc.
 P.O. Box 8548
 San Jose, CA 95155

Groundwater Chemistry Map
 (02/02/07 & 02/23/07)
 Nguyen Property
 960 South King Road
 San Jose, California

FIGURE
5
 Job#: 2751