

Hos mut

November 19, 1987

Ted Gerow
Department of Environmental Health
470 27th Street, Third Floor
Oakland, California 94612

Dear Mr. Gerow:

SUBJECT: LEAK DETECTION PLAN FOR THE SF-OAKLAND BAY BRIDGE

PAINT YARD

IT PROJECT NUMBER 190297-14

IT Corporation (IT) has been retained by the Office of the State Architect (OSA) in Sacramento, to prepare leak detection plans for underground storage tanks at state-owned facilities throughout Regions I and II as specified by OSA under Agreement Number CS 6387 and Work Order Number GST 754.

Each facility has been visited and a leak detection plan has been developed. Enclosed is the leak detection plan for the facility mentioned above.

We ask that your agency review and approve the plan. Please sign and return the enclosed form. Upon notice of the approval, the state will proceed with plan implementation. We look forward to hearing from you soon.

If you have any questions, please call me at (415) 372-9100.

Sincerely.

Mohn McGuilre Project Manager

Regional Office



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St. Carried and South and Ted Gerow Department of Environmental Health $\mathcal V$ 470 27th Street, Third Floor Oakland, California 94612

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Sincerely,

Project Manager

LEAK DETECTION AND MONITORING PLAN OFFICE OF THE STATE ARCHITECT SACRAMENTO, CALIFORNIA IT PROJECT NUMBER 190263

PREPARED FOR:

STATE OF CALIFORNIA
DEPARTMENT OF GENERAL SERVICES
OFFICE OF THE STATE ARCHITECT
1500 5TH STREET
SACRAMENTO, CALIFORNIA 95814

PREPARED BY:

IT CORPORATION
4585 PACHECO BOULEVARD
MARTINEZ, CALIFORNIA 94553

NOVEMBER 19, 1987

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1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE OF WORK

The following plan outlines a method recommended to OSA by IT Corporation (IT) for a leak detection plan (LDP) and tank monitoring program (TMP) for management of the underground storage tanks at the SF-Oakland Bay Bridge Paint Yard. The OSA has selected IT to develop plans to bring a number of underground tanks into compliance with current state and local agency requirements.

1.2 BACKGROUND

This plan has been prepared in compliance with current and proposed "California Underground Tank Regulations" dated August 1985, and applicable local agency guidelines. The regulations referenced in this plan are derived from the California Administrative Code, Title 23 (Waters), Subchapter 16 (Underground Tank Regulations) by the California State Water Resource Control Board.

Enclosed is a copy of a completed survey form and site sketch for the facility. Information contained in the survey form was completed in cooperation with the facility manager.

2.0 LEAK DETECTION PROGRAM

2.1 TANK INTEGRITY TESTING

All tanks included in this program have recently undergone integrity testing. Based on the allowable product variation of less than or equal to 0.05 gallons per hour for testing of tanks with a capacity up to 12,499 gallons, as stated in the regulations, the tanks at this facility are certified "tight". A copy of the certification has been submitted by OSA to your agency.

As required by the guideline alternative selected for this facility, tank integrity testing shall be repeated annually.

3.0 TANK MONITORING PROGRAM

Based upon results of the leak detection program, the proposed tank monitoring program at this facility shall consist of all applicable monitoring methods under State Alternative 5.

3.1 ALTERNATIVE 5

Monitoring under this alternative shall include daily inventory reconciliation, annual tank testing, and continuous pipeline leak detectors, where applicable. This monitoring option has been selected for the tanks at this facility based upon the amount of assumption that and the monthly throughput reconciliation can be measured by the tank owner, operator, or other qualified personnel on a daily basis in accordance with all provisions of Section 2644 of the regulations. Attached is an example of an Inventory Reconciliation Sheet that will be used at this facility. Inventory reconciliation indicating a product loss exceeding the allowable measurement error given in Section 2641-(c)-(5)-(iv), Table 4.2 of the regulations, plus 0.15 percent of the throughput at any time during a 30-day period shall require further investigation in accordance with Section 2644 (f) and (g).

The method of delivering product is by suction from the tanks to the dispensing units. Therefore, pipeline leak detectors are not planned for this facility.

If daily inventory reconciliation requirements by qualified personnel are not met, monitoring under proposed Alternative 9, described in Section 3.2 below, shall be considered.

-

3.2 PROPOSED ALTERNATIVE 9

Although this alternative is currently not approved by the State of California, it has been included here for reference. Monitoring under this alternative shall include daily inventory reconciliation, rate of volume change (RVC) testing, tank testing once every three years, and pipeline leak detectors, where applicable. This monitoring option can be selected for the tanks at this facility based on the condition that the inventory reconciliation requirement for manual measurements of the tank volumes cannot be met.

To comply with this requirement, a tank level measuring (TLM) device shall be installed to automatically perform inventory reconciliation and RVC testing functions:

Inventory reconciliation exceeding the levels specified in Table 4.3 Section 2541-(c)-(9) of the regulations shall require further investigation. The TLM must meet with requirements of Section 2641-(c)-(9)-(e) - which specifies detection of a temperature compensated volume change of 0.2 gallons per hour for each hour during rate of volume change testing when liquid is at center of tank.

Frequency of RVC testing is dependent on the inventory reconciliation allowable variation selected from Table 4.3 Section 2541-(c)-(9).

The method of delivering product is by suction from the tanks to the dispensing units. Therefore, pipeline leak detectors are not planned for this facility.

3.3 OVERFILL PROTECTION OPTION

Although this option is not required by law, it is highly recommended. Retrofit the existing tanks with an overfill protection basin having a minimum 5-gallon capacity and a drain valve in the base to provide a means for product return to the primary container.

3.4 REPORTING

As required under Alternative 5 and 9, a report shall be submitted quarterly to the regulating agency indicating the inventory reconciliation findings, dates, and excessive variations.

TO BE COMPLETED BY REGULATORY AGENCY

Facility Name: SF-Oakland Bay Bridge Paint Yard

IT Project Number: 190297-14

The proposed leak detection plan check one) approved by this agency.	is	is	not (please
Comments:			
	<u> </u>		
	· · · · · · · · · · · · · · · · · · ·		

Please return completed form to:

Agency Name and Address

IT Corporation Attention: John McGuire 4585 Pacheco Boulevard Martinez, California 94553

·	

Signature of Agency Representative ________

Please print name here _______

PRELIMINARY UNDERGROUND TANK INFORMATION SURVEY Office of the State Architect, State of California

INS	TRUCTIONS FOR COMPLETING FORM
1)	Complete one form for each facility
2)	Where data is estimated or uncertain, note "est" or "approx"
3)	Not all of the information requested here will be available.
Ho	owever, it is very important and should be completed or
	estimated if at all possible.
4)	Attach additional sheets if more space is needed to answer the
	questions.
5)	Provide at least two (2) pictures as per specifications.
	photo identification A7-A9
I.	ADMINISTRATIVE
Α.	Department
	Name: <u>Caltrans District 04 Paint Region</u>
	Address: 434 Main Street
	City: San Francisco County: San Francisco CA Zip: 94105
	Phone: (415) 464-1291 Contact: Frank Pacholl
В.	Facility
	Name: S.F. Dakland Bay Bridge Paint Yard
	Address: South of East Bound 80 at Toll Plaza
	Nearest Cross Street:
	City: Dakland County: Alameda CA Zip:
	Phone: (415) 464-3765 Contact: Ken Kille
	

	·
в.	Facility (continued)
	Number of underground tanks at facility: <u>Two</u>
	Tanks - owned X leased
	Facility - owned X leased
c.	Operator (if different from facility)
	Name: Same as I-B
	Address:
	City: County: CA Zip:
	Phone:Contact:
	Emergency Contact
	Day: Name Ken Kille Phone (415) 464-3765
	Night: Name Toll Dispatcher Phone (415) 464-0589
E.	Product Supplier
	Name: Bay Cities Oil Marketers
	Address: 60 Castro Street
	City: Richmond County: Contra Costa CA Zip: 94802
	Phone: (415) 232-5956 Contact:
F.	Registration and Certification
•	Which regulations govern the tanks at this facility (e.g.
	State County Local) State

F. Registration and Certification (continued)
Have tanks been registered? <u>unc</u> Date of registration <u>unc</u>
Which agency enforces the State tank regulations?
Agency Address <u>Department of Environmental Health</u>
470 27th Street, Third Floor
Oakland, CA 94612
Phone: (415) 874-6434 Contact: Ted. Gerow
Tank Registration or Permit #:
Fees Paid:Cost:
(Provide copies of registration/permit/fees to consult)
II. SITE INFORMATION
A. Geology
Predominant natural soil type: sand and silt/bay mud
Depth to first aquiclude <u>est 15'</u>
Is site area on floodplain? yes X no
B. Groundwater
Name of the groundwater basin and sub-basin?
Alameda Bay Plian Basin
Estimated depth to high water table <u>est 3'</u>
Estimated depth to low water table <u>est 10'</u>
Average depth to water table <u>est 8'</u>
Are there any water wells within 0.5 miles? yes noX_
If yes, distance and direction to well

в.	Groundwater (continued)
	Uses of groundwater (eg. agricultural, domestic, industrial)
	None
	Current conditions of groundwater <u>Uncertain-S.F. Bay Water</u>
	Hydraulic gradient and direction, if known <u>West</u>
	Approximate ground surface slope and direction Flat
c.	Nearby Utilities
	Distance to nearest underground telephone line <u>~10 feet</u>
	Distance to nearest underground gas line <u>~10 feet</u>
	Distance to nearest underground power line ~10 feet
	Distance to nearest water line <u>~5 feet</u>
	Distance to nearest storm sewer line <u>~50 feet</u>
	Distance to nearest off-site basement <u>~200+ 100 feet</u>
	Are there any high voltage power lines that pose a risk to
	drilling? yes no _X
	Is there any nearby power for the monitoring system
	yes <u>X</u> no
	yes <u> </u>
D.	Site History and Surrounding Area SOURCE:Ken Kille
	Please note source of information entered in this section.
	Nearest location where cuttings generated during the
	drilling operations can be disposed of none

No contaminationX	te History and Surrounding Area (continued)
Dates and extent of known spills at this site and materials spilled none Type of surrounding environment (eg. forest, agricultural, industrial etc.) industrial Activites on adjoining sites <a and="" href="mailto:Port of Dakland MOTBA Harbor to South, I80/580 & Bay Bridge Toll Plaza to North Hazardous liquids that may be stored on adjoining sites (eg. hydrocarbons, fuels, pesticides solvents etc.) Paints and Solvents nearby	Suspected contamination Confirmed contamination
Dates and extent of known spills at this site and materials spilled none Type of surrounding environment (eg. forest, agricultural, industrial etc.) industrial Activites on adjoining sites <a and="" href="mailto:Port of Bakland MOTBA Harbor to South, I80/580 & Bay Bridge Toll Plaza to North Hazardous liquids that may be stored on adjoining sites (eg. hydrocarbons, fuels, pesticides solvents etc.) Paints and Solvents nearby	No contamination X
Type of surrounding environment (eg. forest, agricultural, industrial etc.) industrial Activites on adjoining sites Fort of Oakland MOTBA Harbor to South, I80/580 & Bay Bridge Toll Plaza to North Hazardous liquids that may be stored on adjoining sites (eg. hydrocarbons, fuels, pesticides solvents etc.) Paints and Solvents nearby	
Type of surrounding environment (eg. forest, agricultural, industrial etc.) industrial Activites on adjoining sites Port of Bakland MOTBA Harbor to South, I80/580 & Bay Bridge Toll Plaza to North Hazardous liquids that may be stored on adjoining sites (eg. hydrocarbons, fuels, pesticides solvents etc.) Paints and Solvents nearby	spilled <u>none</u>
Type of surrounding environment (eg. forest, agricultural, industrial etc.) industrial Activites on adjoining sites Port of Bakland MOTBA Harbor to South, I80/580 & Bay Bridge Toll Plaza to North Hazardous liquids that may be stored on adjoining sites (eg. hydrocarbons, fuels, pesticides solvents etc.) Paints and Solvents nearby	
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to South, I80/580 & Bay Bridge Toll Plaza to North Hazardous liquids that may be stored on adjoining sites (equipment of the store of	Activites on adjoining sites <u>Port of Öakland MOTBA Harbor</u>
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hydrocarbons, fuels, pesticides solvents etc.) <u>Paints and</u> Solvents nearby	to outer, 1007 000 a pay pringe roll ridge to north
Solvents nearby .	Hazardous liquids that may be stored on adjoining sites (eg
	hydrocarbons, fuels, pesticides solvents etc.) Paints and
	Solvents nearby
Known spills on adjoining sites <u>none</u>	
	Known spills on adjoining sites <u>none</u>

E. Facility Plan

Draw a sketch of the site with the recommended location of soil borings in accordance with the schedule of number of groundwater and/or vadose monitoring wells required pursuant to the provisions of monitoring alternatives of the California Underground Storage Tank Regulations.

Flease see Attached Sketch

III. TANK INFORMATION

DSA Tank Identification Number <u>(1)-2244, (2)-2243</u>
Attach sketch of tank location.
Tank used for: Product storage: X waste storage
sump other (describe)
Capacity in gallons (1)-4,000, (2)-2,000

A. General Tank Description (continued)	
Annual throughput in gallons $(1)^{-42,000}$, $(2)^{-5,700}$	
Status of tank (active or inactive) <u>Active</u>	
If inactive:	
Date tank taken out of service	
Quantity of material remaining in tank	
Is tank filled with inert material? yes no	
Manufacturer of tank <u>Owens/Corning</u>	
Installation year <u>(1)-1980, (2)-1980</u>	
Date of last tank test <u>March 20, 1987</u>	
B. Tank Construction and Operation	
Wall Material <u>Fiberglass</u>	
Elevation of ground above each tank ~ 6 feet	
Tank dimensions <u>(1)-5.3'x 24', (2)-5.3'x 12'</u>	
Depth to bottom of tank (1) - $^{\sim}$ 7.5', (2) - $^{\sim}$ 6'	
Is tank in a vault? yes noX	
Is there secondary containment? yes noX	
Type of backfill (natural soil, sand, pea gravel, clay etc	=)
Gravel	
Type of internal protection (eg. liner, epoxy) <u>unknown</u>	
Type of external protection (eg. asphalt, fiberglass)	
unknown	
Type of cathodic protection <u>none</u>	
Evisting monitoring equipment or procedures some	

B. Tank Construc	tion and Operati:	on (continued)	
Are fuel ac	dditives (inhibit	ors) used in t	:his tank?
yes	no X	•.	
	nave fuel transfe	er capability?	yes X no
			/1×2", (2)-1×4"/
1×2"		<u> </u>	
de // du			
C. Material Stor	-ed		
Material c	urrently stored _	(1)-gasoline,	(2)-diesel
			
If petrolue	em stored, grade	of mator vehic	le fuel or waste
oil. <u>(1)</u>	ınleaded, (2) die	esel #2	
Material s	tored used for \underline{C}	perating Emerc	ency Equipment
Past materia	als stored <u>same</u>		
D. Tank History			
PLEASE NOTE SOUR	RCE OF THE INFORM	MATION ENTERED	IN THIS SECTION
SOURCE-Steve Kau	ıfman	,	
	Vi. ini i Vi. i		
*	and many to the desired to		
Describe p	ast repairs and i	include dates .	Tione
Dates and	extent of known 1	leaks <u>none</u>	
At the second se			+22

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E. Miscellaneous Tank Information
What are the compliance alternatives for this tank
State Alternative # 5
COMPLETE THE FOLLOWING QUESTIONS IF THE INFORMATION IS KNOWN. DO
NOT TRY AND INSPECT THE TANK FOR CODE COMPLIANCE.
Which construction codes do tanks meet? (eg. fire codes,
county building codes, etc) - give dates. <u>unknown</u>
Surface elevation - <u>approximately 6 feet</u>
Surface material directly above tank (eg. pavement)
concrete and asphalt
Does the surface material show signs of settlement or
distress? <u>no</u>
Is surface directly above the tank used (eg. structures,
storage yard) <u>yes</u>
If yes, describe <u>surface used for yehicle refueling</u>

Are	there signs of tank movement (eg. floating, excessive
set	tlement) <u>none</u>
If ·	yes, explain
Are	filler caps, access covers, locks, etc functional <u>yes</u>
Is :	overfill protection available <u>no</u>
(NO	TE: THE FACILITY MANAGER SHOULD ANSWER THE FOLLOWING FOUR
QUE	STIONS).
Is :	underground storage needed at this facility <u>yes</u>
Fea	sibility of placing tank above ground <u>feasible</u>
Are	commercial sources available and feasible to use by the
agei	ncy NO-Traffic prohibits refueling off site in emergency
sit	uations
Feas	sibility of eliminating or consolidating this tank with
oth	ers? <u>Not feasible</u>
Are	other State facilities within one mile of this site? Yes
Wha	t equipment is used on-site that cannot be taken off-site
for	refueling? <u>qenerator, steam cleaners</u>
Gene	eral comments <u>Traffic congestion prohibits refueling off</u>

4:

ĮΥ,	. INVENIURY RECONCILIATION
	Is inventory reconciliation done <u>yes</u>
	If yes, with what frequency <u>once a week</u>
	Daily WeeklyXMonthly
	Are there meters with totalizers on dispensing mechanisms?
	yes
	Is there an automated tank level gauging system? <u>no</u>
	If inventory reconciliation is done on a daily basis, what
	is your typical daily variation? +/- 10 gal.
	+/- 25 gal +/- 50 gal +/- 100 gal
	greater than 100 gallons
	What is tank throughput? Daily $(1)-^300$, $(2)-^40$
	Weekly (1) - 2 ,100, (2) - 2 80 Monthly (1) - 3 ,525, (2) - 4 70
	If the tank is 1,000 gallons or less, can the tank be
	operated so that there are periods of up to 7 days where no
	inputs or withdrawals are allowed?
٧.	PIPING INFORMATION
Α.	General Piping information
	Attach a sketch of piping layout
	Type of piping used <u>galvanized/steel</u>
	Size of piping used <u>unknown except for 2 inch vent lines</u>
	Length of piping from tank to dispenser or point of use

A. (
	Age of piping <u>installed in 1980</u>						
	Is piping above or below ground (indicate on sketch) below						
	Type of backfill used in piping trenches <u>gravel</u>						
	Method of delivering material through pipeline (gravity,						
	suction, pressure, etc) <u>suction</u>						
	Leak detection equipment used <u>none</u>						
	Venting type <u>standard - 10 feet above ground surface</u>						
	Is product metered between tank and end device <u>no</u>						
	Are fill connections or sounding tube covers located above						
	grade? <u>no</u>						
	Is there an overfill protection device on the fill pipe <u>no</u>						
	Is there an overfill protection device on the fill pipe <u>no</u>						
	Is there an overfill protection device on the fill pipe <u>no</u> Describe known leaks (dates, extent, location) <u>none</u>						
	, ————————————————————————————————————						
В.	, ————————————————————————————————————						
B. 1	Describe known leaks (dates, extent, location) <u>none</u>						
B . !	Describe known leaks (dates, extent, location) <u>none</u>						
В	Describe known leaks (dates, extent, location) <u>none</u> Miscellaneous Piping Information Accessibility of piping for workmen <u>yes</u>						
В. 1	Describe known leaks (dates, extent, location) <u>none</u> Miscellaneous Piping Information Accessibility of piping for workmen <u>yes</u> Describe effort to access piping <u>break out concrete</u>						
B. 1	Describe known leaks (dates, extent, location) <u>none</u> Miscellaneous Piping Information Accessibility of piping for workmen <u>yes</u> Describe effort to access piping <u>break out concrete</u> Feasibility of placing piping above ground <u>not feasible</u>						
В	Describe known leaks (dates, extent, location) <u>none</u> Miscellaneous Piping Information Accessibility of piping for workmen <u>yes</u> Describe effort to access piping <u>break out concrete</u> Feasibility of placing piping above ground <u>not feasible</u> Feasibility of placing piping in utility tunnel <u>not feasible</u>						
B. :	Describe known leaks (dates, extent, location) <u>none</u> Miscellaneous Piping Information Accessibility of piping for workmen <u>yes</u> Describe effort to access piping <u>break out concrete</u> Feasibility of placing piping above ground <u>not feasible</u> Feasibility of placing piping in utility tunnel <u>not feasible</u>						
B. 1	Describe known leaks (dates, extent, location) <u>none</u> Miscellaneous Piping Information Accessibility of piping for workmen <u>yes</u> Describe effort to access piping <u>break out concrete</u> Feasibility of placing piping above ground <u>not feasible</u> Feasibility of placing piping in utility tunnel <u>not feasible</u>						

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SAMPLE INVENTORY RECONCILIATION SHEET

ALLONABLE VARIATION: A B C	- ENCTI	TTV.		TAMP #				PROPULET		
A B C D E F S S S S S S S S S S	FACILITY:						-	PRODUCT:	MONTH/YEAR:	
Note Color Color	•									
DATE INITIALS WATER GALLONS GALLONS GALLONS GALLONS GALLONS INCHES/GALLONS +/-GALLONS YES/NO				Opening stick reading (same as yester- days	Deliv-	Metered	Total	Closing In- ventory (Dip-	Actual Variation	Is F greater than allo able var ation? Yes refe to Secti
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	NATE	INTITALS	INCHES WATER	GALLONS	GALLONS	CALLONS	GALLONS			
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