FAXCOVER SHEET

SLIC 6690
pg2 - rec. pg3

KRAZAN & ASSOCIATES, INC.

545 PARROTT STREET, SAN JOSE, CA 95112

(408) 271-2200, (408) 271-2201 FAX

OFFICES SERVING THE WESTERN UNITED STATES

Attention: Ms. Susan Hugo

Fax #: 510-337-9335

Telephone #:

Company Name: Alameda County

Date: 7/28/00

From: Alex Gallego

COMMENTS: Susan: Attached is the information regarding the installation of the piezometers and the groundwater sampling for lead. Based on the uniform lithology at the site site (i.e.: 5 feet of fill and then Merritt Sands), we did not prepare boring logs. I have also included the revised figure for the Conceputal Site Model/Risk Assessment, the revised contingency plan flow chart, and a revised site plan showing the elevator shafts. All will be included in the final documents. Please call at your earliest convienence regarding my voice mail. Thank You.

Please advise us immediately if you do not receive complete transmittal or if you have received this transmittal in error.

No. of pages, including transmittal sheet 15

____Original will not follow

x Original will follow

x Regular Mail

____Courier

____Federal Express

____Other__________

Krazan & ASSOCIATES, INC.

GEOTECHNICAL ENGINEERING • ENVIRONMENTAL ENGINEERING
CONSTRUCTION TESTING & INSPECTION

July 26, 2000

Project No. 044-00006

Ms. Susan Hugo, Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 230
Alameda, CA 94502

RE: Proposed Commercial Development
720 Second Street and 229 Castro Street
Oakland, California

Dear Ms. Hugo:

On behalf of M.A Mortenson Company (Mortenson), Krazan & Associates Inc. (Krazan) has prepared this letter to transmit documents related to the installation of piezometers and the collection of groundwater samples at the above referenced Site (Figure 1). The three piezometers were installed to assess shallow groundwater levels for the purposes of the proposed future construction at the Site. The locations of the monitoring wells are shown on Figure 2. The borings for the monitoring wells were drilled on May 25, 2000, using a truck-mounted, hollow-stem auger rig equipped with 8-inch augers. Drilling services were provided by Krazan. Because the lithologies at the subject site had been established, and the borings for the monitoring wells were within a few feet of previously-installed borings, sampling for lithologic purposes was limited to 5, 10, and 15 feet below the ground surface (BGS). The subsurface conditions were logged by a State-registered geologist from Krazan.

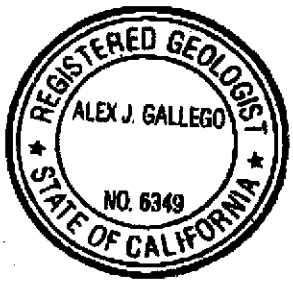
Based on the lithologies encountered at the subject site, piezometers were constructed to a depth of 20 feet BGS in all three piezometers. The screen interval was 9.5 to 19.5 feet BGS. The piezometers were constructed of flush-jointed, threaded, 2-inch I.D., Schedule 40 PVC casing with 0.020-inch machined slots. The filter pack consisted of #3 Lonestar Sand. The slot size and filter pack was selected with the intent to minimize the amount of native lithologic and filter pack material entering the monitoring well. During placement of the filter pack, the well casing was suspended in the augers. The augers were lifted 2 to 4 feet and the sand filter pack was poured into the annulus. The augers were then slowly lifted with sand filter pack placed "continuously" until the sand backfill was approximately 2 foot above the top of the screen. An approximately 2-foot thick layer of bentonite was placed above the sand filter pack. The

annulus above the bentonite was backfilled with a cement grout slurry. The cement grout was extended to a depth of approximately 1-foot below the ground surface. Well construction details for the three piezometers are presented in Figure 3. Vaults equipped with traffic-rated covers were placed above the well casings and set in concrete. The vaults were set approximately 2-inches above the ground surface to allow for surface drainage away from the wells. A locking device was installed to minimize the likelihood of unauthorized access to the piezometers.

The sampling equipment was cleaned prior to sampling and between borings to minimize the likelihood of cross-contamination. The work was performed at the direction of a California-registered professional geologist from Krazan. Chain-of-custody (COC) procedures were used to document the handling and transport of samples from the time the samples were collected to the time they were delivered to the laboratory for analysis.

Following your request to add lead as a target analyte in groundwater as presented in your letter to Mortenson and the Port of Oakland dated June 23, 2000, Krazan collected groundwater samples from the three piezometers. Prior to the collection of groundwater samples, the piezometers were developed by surging and bailing. Development was conducted to remove fine-grained sediment that accumulated in the piezometer and filter pack, and to increase the hydraulic communication with the aquifer material. Following development, groundwater samples were collected from the wells with dedicated disposable bailers. The sampled groundwater was transferred to laboratory-supplied containers specific for the anticipated analyses. The samples were labeled with the sample number, collection date, and project number and retained on ice in an insulated chest. The samples were immediately delivered to Entech Analytical Labs, Inc. (Entech) of Sunnyvale, California, a State of California certified analytical laboratory (CA ELAP# 2346). The samples were filtered and preserved by Entech prior to analyses for lead in accordance with Environmental Protection Agency (EPA) Method 200.7. Lead was not detected in the three groundwater samples. A copy of the laboratory analytical report and chain-of-custody form are attached to this letter.

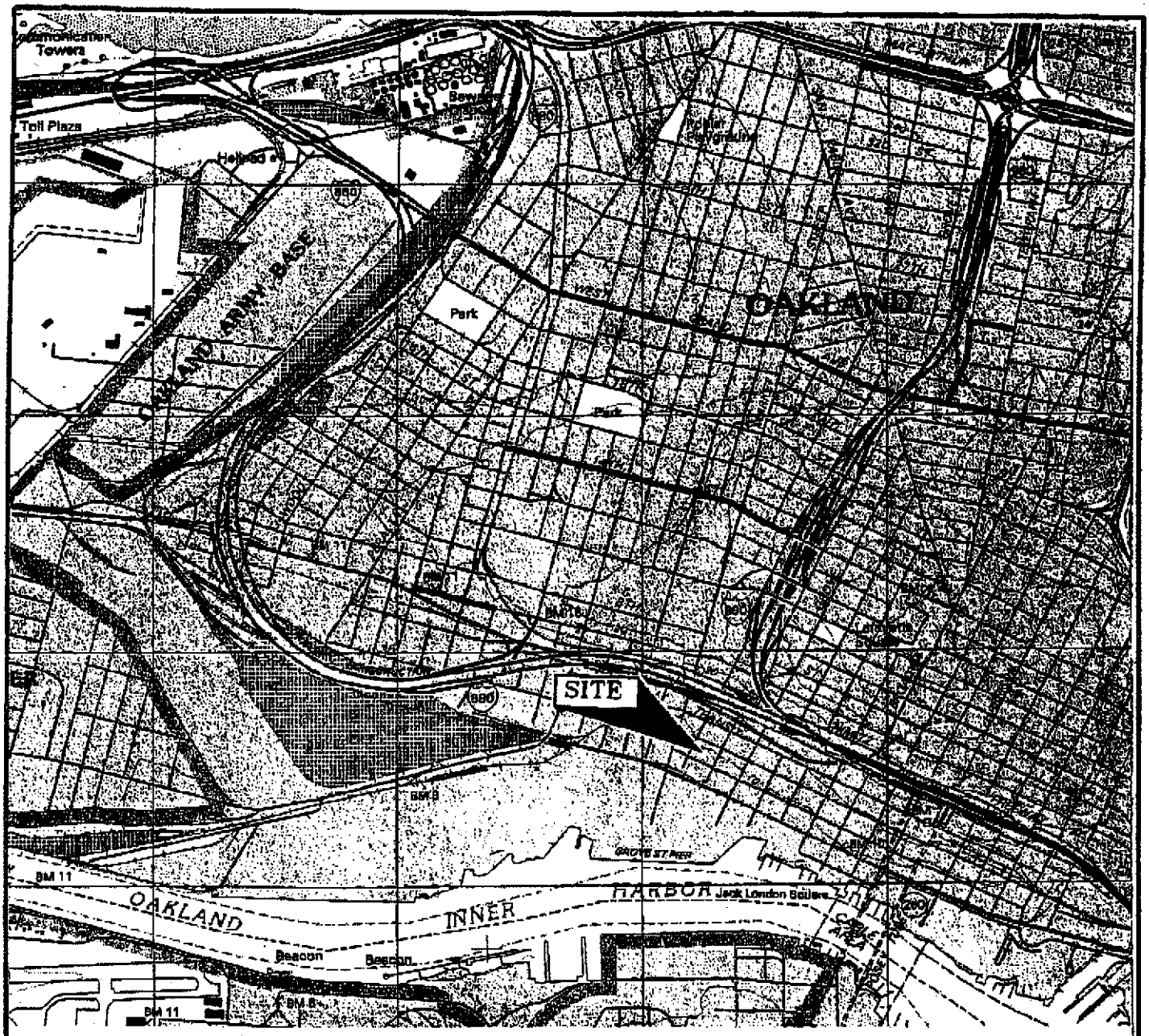
We hope that this letter, and the reports provided have fully addressed the concerns raised in your June 23 letter. If you have any further questions, please do not hesitate to contact me at (408) 271-2200.



Very truly yours,
Krazan & Associates, Inc.

ALEX J. GALLEGO, RG 6349
Director of Environmental Services

CC: Mr. Stuart Block, Cox, Castle & Nicholson, LLP
Mr. Marvin Doster, Thomas Management West
Mr. James Fey
Mr. Douglas Herman, Port of Oakland
Ms. Yane Nordhav, Baseline Environmental, Inc.

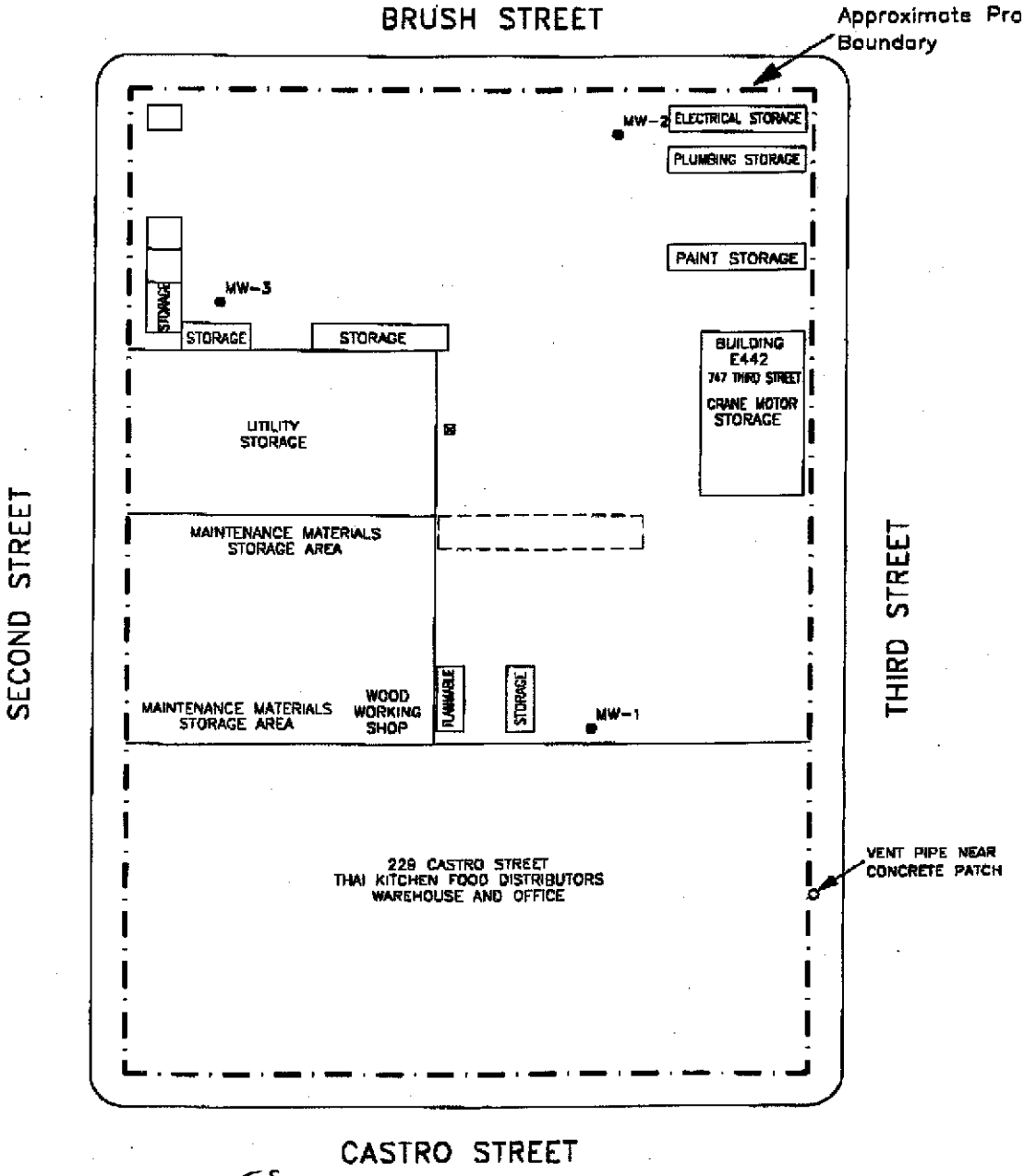


MAP SOURCE:
USGS QUADRANGLE, 7.5-MINUTE (TOPOGRAPHIC)
OAKLAND WEST (DATED 1993)

0 2,000 4,000
SCALE IN FEET (±)

VICINITY MAP	Scale: AS SHOWN	Date: 2/00
City Block Bound By: Second, Third, Castro, & Brush Streets Oakland, California	Drawn by: AJG	Approved by: AJG
	Project No. 044-00006	Figure No. 1

Krazan
ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SPECIALISTS
Offices Serving the Western United States



EXPLANATION

⊠ STORM DRAIN

● MW-1 MONITORING WELL LOCATIONS AND DESIGNATIONS

NOTES:
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2. BASE MAP FROM FIELD MEASUREMENTS AND SANBORN MAPS

NORTH

0 50 100

SCALE IN FEET (±)

LOCATION MAP	Scale: AS SHOWN	Date: 03/00
City Block Bound By: Second, Third, Castro, & Brush Streets Oakland, California	Drawn by: AJG	Approved by: AJG
	Project No. 044-00006	Figure No. 2

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Offices Serving the Western United States

Krazan
SITE DEVELOPMENT ENGINEERS
Offices Serving the Western United States

Krazan & Associates, Inc.
Environmental Department
545 Parrott Street
San Jose, California 95112
(408) 271-2200

WELL INSTALLATION DIAGRAM FOR MW-1, MW-2, AND MW-3

PROJECT: M.A. MORTENSON COMPANY PROJECT NO: 044-00006 DATE: 7/24/00

LOCATION: 720 SECOND STREET, OAKLAND, CALIFORNIA DRILLED BY: KRAZAN & ASSOCIATES

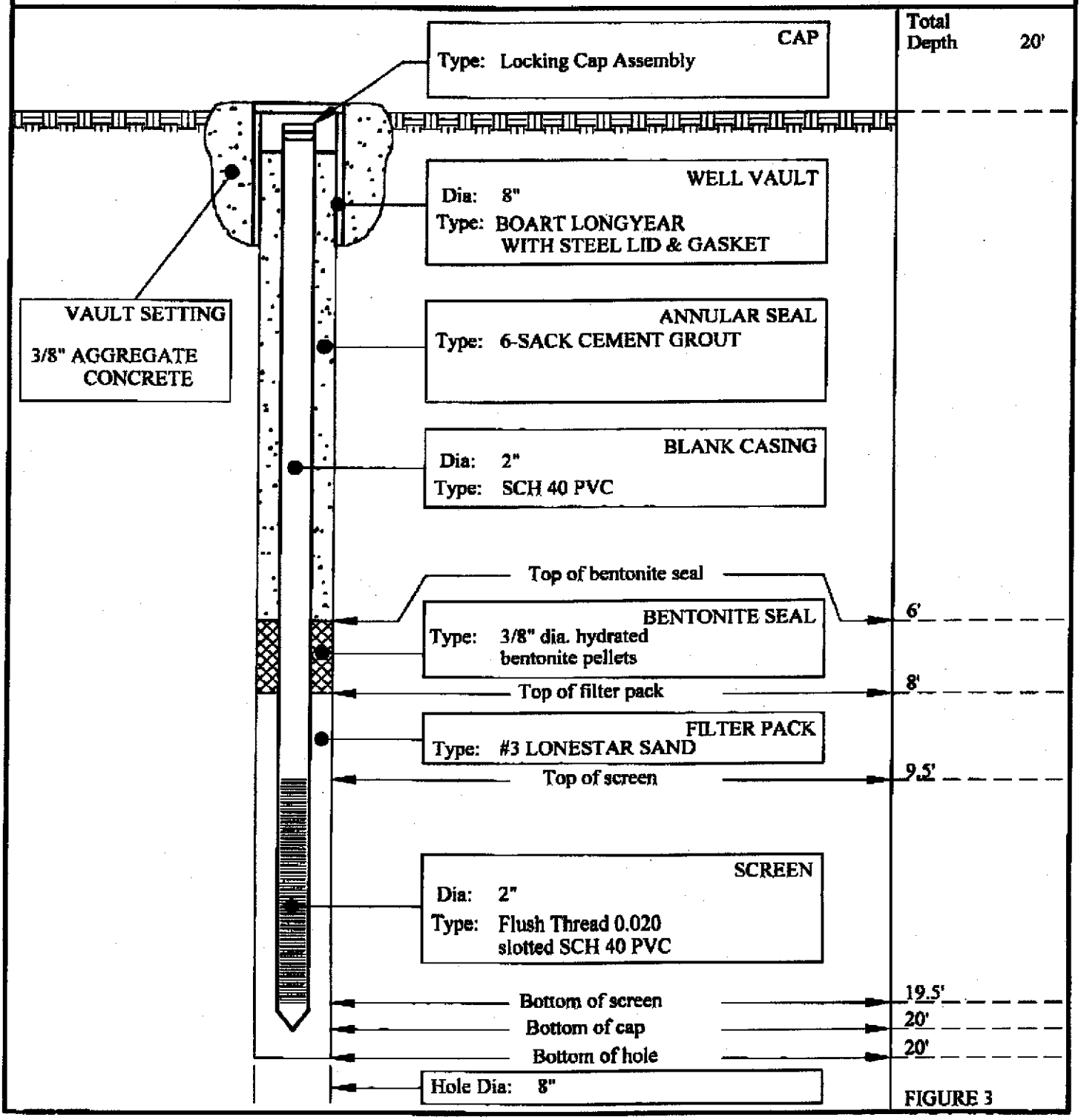


FIGURE 3

ATTACHMENT

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

June 30, 2000

Alex Gallego
Krazan & Associates, Inc.
550 Parrott Street, Suite One
San Jose, CA 95112

Order:	21165	**Date Collected:**	6/27/00
Project Name:		**Date Received:**	6/27/00
Project Number:	04400006	**P.O. Number:**	
Project Notes:			

On June 27, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix	Test	Method
Liquid	Lead	EPA 200.7

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson
Lab Director

Entech Analytical Labs, Inc.

525 Del Rey Avenue, Suite E
Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: ICP
Laboratory Control Spikes

QC Batch #: WM000619
Matrix: Liquid
Units: mg/L

Date Analyzed: 06/27/00
Date Digested: 06/26/00
Quality Control Sample: Blank Spike

PARAMETER	Method #	MB mg/L	SA mg/L	SR mg/L	SP mg/L	SP %R	SPD mg/L	SPD % R	RPD	QC LIMITS %R	QC LIMITS RPD
Antimony	200.7	<0.005	0.50	ND	0.54	108	0.55	111	2.2	75- 125	25.0
Arsenic	200.7	<0.005	0.50	ND	0.53	107	0.57	114	6.4	75- 125	25.0
Barium	200.7	<0.005	0.50	ND	0.54	107	0.54	108	0.9	75- 125	25.0
Beryllium	200.7	<0.005	0.50	ND	0.54	108	0.54	109	0.5	75- 125	25.0
Cadmium	200.7	<0.005	0.50	ND	0.53	105	0.52	105	0.5	75- 125	25.0
Chromium	200.7	<0.005	0.50	ND	0.53	107	0.54	109	1.9	75- 125	25.0
Cobalt	200.7	<0.005	0.50	ND	0.54	108	0.55	110	1.8	75- 125	25.0
Copper	200.7	<0.005	0.50	ND	0.54	107	0.53	107	0.1	75- 125	25.0
Lead	200.7	<0.005	0.50	ND	0.55	110	0.56	112	2.1	75- 125	25.0
Molybdenum	200.7	<0.005	0.50	ND	0.55	110	0.54	109	1.2	75- 125	25.0
Nickel	200.7	<0.005	0.50	ND	0.54	108	0.55	110	1.9	75- 125	25.0
Selenium	200.7	<0.005	0.50	ND	0.61	122	0.61	121	0.1	75- 125	25.0
Silver	200.7	<0.005	0.50	ND	0.53	106	0.53	105	0.4	75- 125	25.0
Thallium	200.7	<0.005	0.50	ND	0.48	96	0.48	96	0.2	75- 125	25.0
Vanadium	200.7	<0.005	0.50	ND	0.52	105	0.53	107	1.6	75- 125	25.0
Zinc	200.7	<0.005	0.50	ND	0.55	110	0.55	111	0.7	75- 125	25.0

Definition of Terms:

MB: Method Blank
nc: Not Calculated due to high levels of analyte found in sample
na: Not analyzed in QC batch
SA: Spike Added
SR: Sample Result
SP: Spike Result
SP (%R) Spike % Recovery
SPD Spike Duplicate Result
SPD (%R) Spike % Recovery

Entech Analytical Labs, Inc.

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Krazan & Associates, Inc.
550 Parrott Street, Suite One
San Jose, CA 95112
Attn: Alex Gallego

Date: 6/30/00
Date Received: 6/27/00
Project Name:
Project Number: 04400006
P.O. Number:
Sampled By: Client

Certified Analytical Report

Order ID: 21165 **Lab Sample ID:** 21165-001 **Client Sample ID:** MW-1
Sample Time: 11:30 AM **Sample Date:** 6/27/00 **Matrix:** Liquid

Parameter	Result	DF	PQL	DLR	Units	PrepDate	Analysis Date	QC Batch ID	Method
Lead	ND	1	0.015	0.015	mg/L	6/27/00	6/29/00	WM000619	EPA 200.7

Order ID: 21165 **Lab Sample ID:** 21165-002 **Client Sample ID:** MW-2
Sample Time: 11:45 AM **Sample Date:** 6/27/00 **Matrix:** Liquid

Parameter	Result	DF	PQL	DLR	Units	PrepDate	Analysis Date	QC Batch ID	Method
Lead	ND	1	0.015	0.015	mg/L	6/27/00	6/29/00	WM000619	EPA 200.7

Order ID: 21165 **Lab Sample ID:** 21165-003 **Client Sample ID:** MW-3
Sample Time: 12:00 PM **Sample Date:** 6/27/00 **Matrix:** Liquid

Parameter	Result	DF	PQL	DLR	Units	PrepDate	Analysis Date	QC Batch ID	Method
Lead	ND	1	0.015	0.015	mg/L	6/27/00	6/29/00	WM000619	EPA 200.7

DF = Dilution Factor ND = Not Detected DLR = Detection Limit Reported PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Environmental Analysis Since 1983

Krazan

Chain of Custody Record

RUSH

DATE 6-27-00 PAGE 1 OF 1

KRAZAN & ASSOCIATES, INC.
ATTN: Alex G. (San Jose office)
215 WEST DAKOTA AVENUE
CLOVIS, CA 93612
(209) 348-2200 FAX: (209) 348-2201

Project No. 04400006

Sampler Signature: Michael E Maury

Printed Name: Michael E Maury

SAMPLE NO	DATE	TIME	DESCRIPTION/LOCATION	CAC METALS (TTLC)	PR. POLLUTANT METALS	TOTAL LEAD	TPH-DIESEL	TPH-GAS	BTXE-TPH-GAS	OIL & GREASE	HALOGENATED ORGANICS (EPA 8010/8011)	VOLATILE ORGANICS (EPA 8020/602)	ORGANOCHLORINE PESTICIDES & PCB'S (EPA 8080)	PENTACHLOROPHENOL	CREOSOTE	OXYGENATES	ASTM (PLM)	Total Lead	Salinity	Chlorides	NUMBER OF CONTAINERS	OBSERVATIONS/ COMMENTS
MW-1	6-27-00	1130	MW-1	2		1165-001												X			2	Filter and preserve
MW-2	↓	1145	MW-2			↓		002										X	X	X	2	Sample as needed
MW-3	↓	1200	MW-3			↓		003										X			2	

00 JUN 27 13:25

RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY	DATE
Signature: Michael Maury	6/27/00	Signature: Amy Dambach	6/28/00	Signature		Signature	
Printed Name: Michael Maury	TIME 1320	Printed Name: Entech	TIME 1327	Printed Name	TIME	Printed Name	TIME
Company: Krazan		Company		Company		Company	
RELINQUISHED BY	DATE	RECEIVED BY	DATE	RELINQUISHED BY	DATE	RECEIVED BY (laboratory)	DATE 6/27/00
Signature		Signature		Signature		Signature: E-Burgett	TIME 1325
Printed Name	TIME	Printed Name	TIME	Printed Name	TIME	Printed Name	TIME
Company		Company		Company		Company	

6 TOTAL NUMBER OF CONTAINERS SUBMITTED TO THE LAB

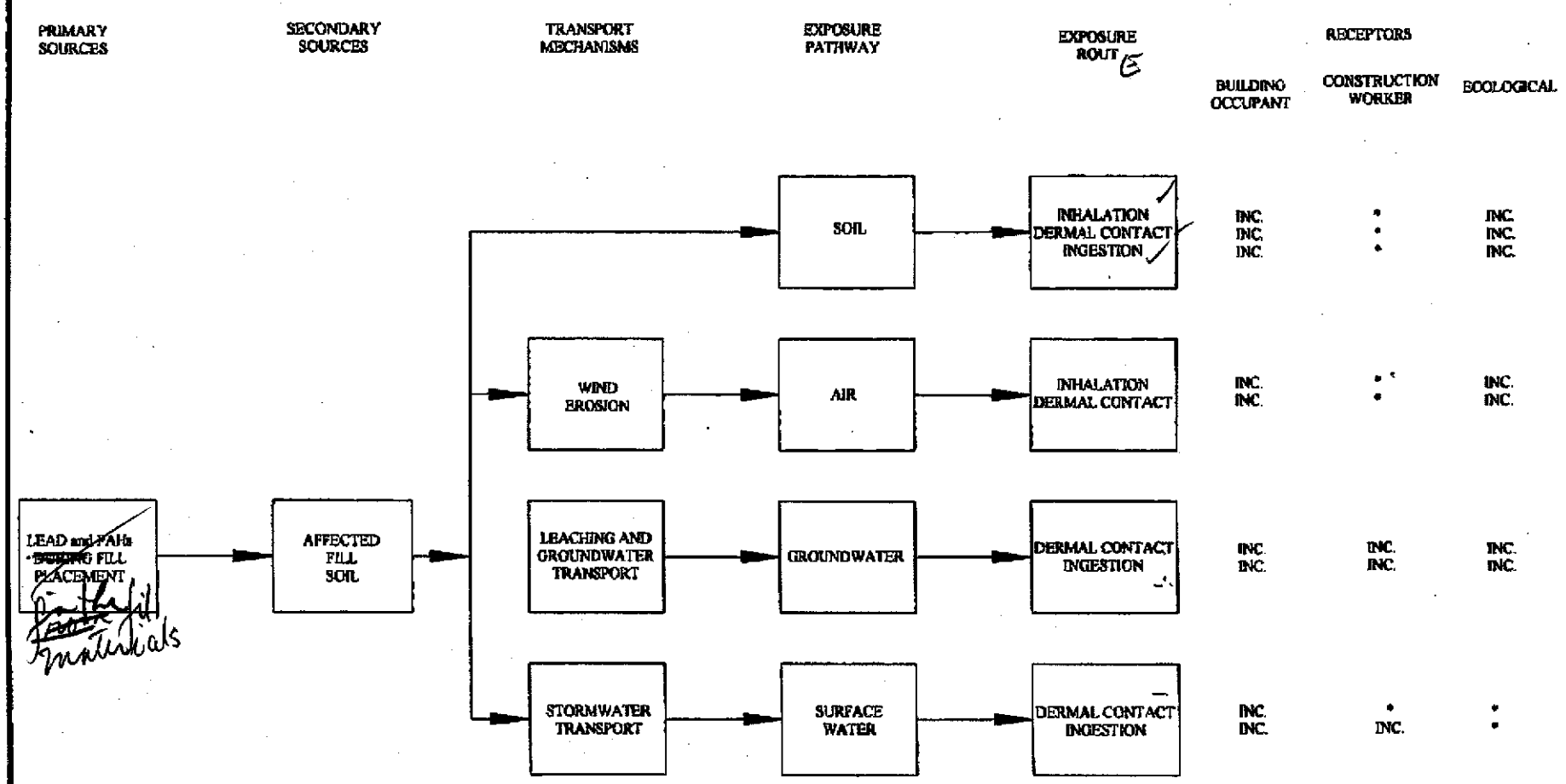
METHOD OF SHIPMENT/DELIVERY: Drop off

SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS: 72 hr T/A on Total Lead Standard T/A on Salinity

RESULTS DUE: _____

☐ VERBAL ☐ WRITTEN

White - Lab Yellow - Project File Pink - C.O.C. Binder



LEGEND

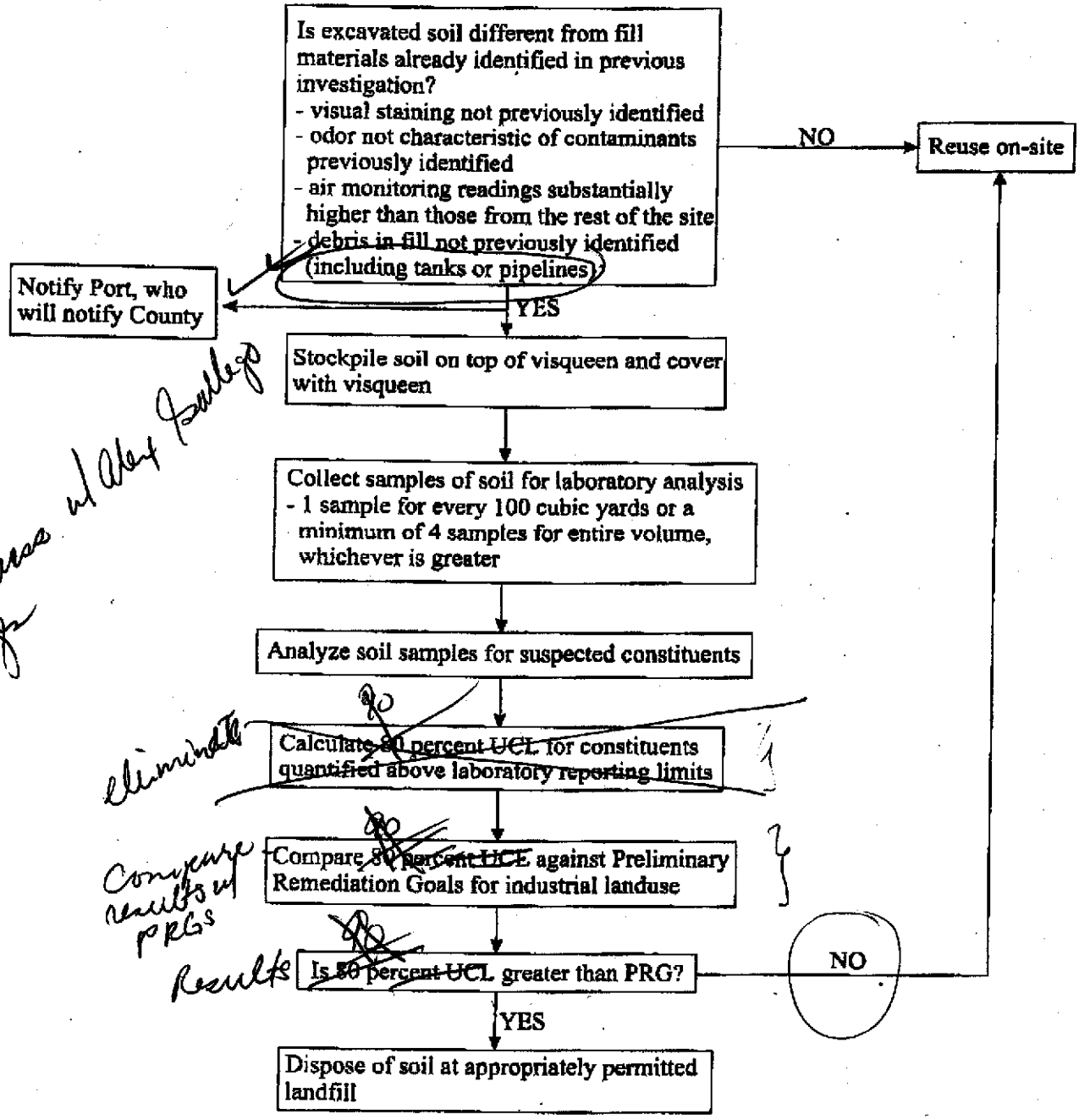
INC. = INCOMPLETE PATHWAY

• = COMPLETE PATHWAY MITIGATED WITH PLAN 1

RMP

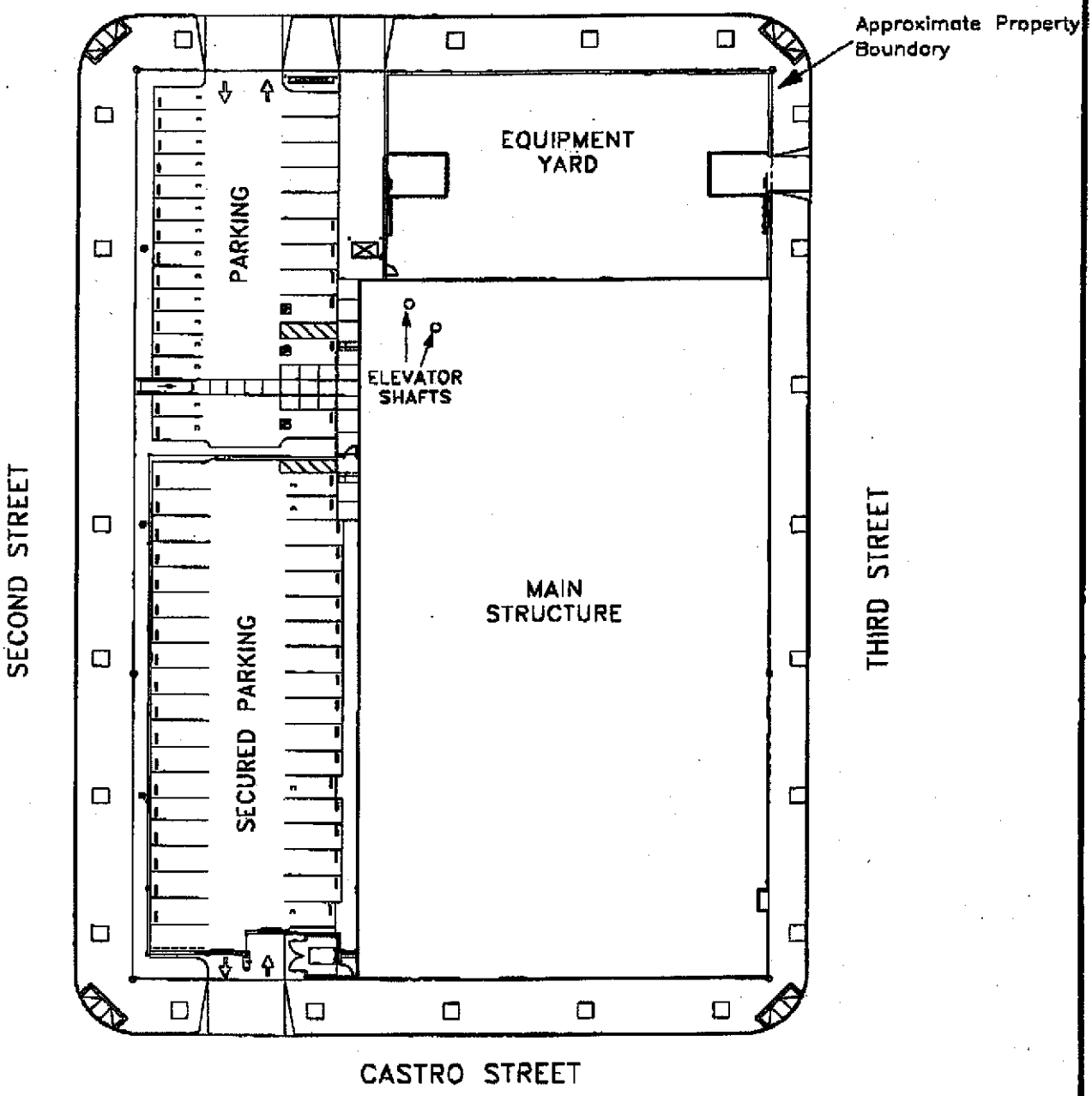
CONCEPTUAL SITE MODEL	Scale: AS SHOWN	Date: 6/00	Krazan
CITY BLOCK BOUND BY: SECOND, THIRD, CASTRO, & BRUSH STREETS OAKLAND, CALIFORNIA	Drawn by: C.G.	Approved by: A.J.G.	SITE DEVELOPMENT ENGINEERS
	Project No. 044-00006	Figure No. 5	Offices Serving the Western United States

"Hot Spot" Management Procedures
Telecommunications Building, Oakland



NOTES:
1. FROM BASELINE ENVIRONMENTAL CONSULTING AND THE PORT OF OAKLAND.

CONTINGENCY PLAN FLOW CHART City Block Bound By: Second, Third, Castro, & Brush Streets Oakland, California	Scale: AS SHOWN	Date: 07/00	Krazan ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SPECIALISTS *Offices Serving the Western United States*
	Drawn by: AJG	Approved by: AJG	
	Project No. 044-00006	Figure No. 5	



NOTES:
1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2. BASE MAP FROM CARILLO ARCHITECTURAL GROUP

PROPOSED SITE PLOT PLAN

City Block Bound By:
Second, Third, Castro, & Brush Streets
Oakland, California

Scale: AS SHOWN	Date: 06/00
Drawn by: AJG	Approved by: AJG
Project No. 044-00006	Figure No. 3

Krazan
ENGINEERS, GEOLOGISTS AND ENVIRONMENTAL SPECIALISTS
Offices Serving the Western United States