



# GETTLER-RYAN INC.

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## TRANSMITTAL

TO: Mr. Barney Chan  
Alameda County Health Care Services  
Department of Environmental Health  
1131 Harbor Bay Parkway, Room 250  
Alameda, California 94502-6577

DATE: September 29, 1997  
PROJ.#: 6338  
SUBJECT: Letter Work Plan  
RMC Lonestar Facility  
333 23rd Avenue  
Oakland, California

FROM:

Greg A. Gurss  
Project Manager  
Gettler-Ryan Inc.  
3164 Gold Camp Drive, Suite 240  
Rancho Cordova, California 95670

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1	February 9, 1996	Letter Work Plan for RMC Lonestar Facility

THESE ARE TRANSMITTED as checked below:

- For review and comment     Approved as submitted     Resubmit \_\_\_ copies for approval
- As requested     Approved as noted     Submit \_\_\_ copies for distribution
- For approval     Return for corrections     Return \_\_\_ corrected prints
- For Your Files

COMMENTS:

At the request of Chevron Products Company, we are submitting a copy of the above-referenced Work Plan for your files. If you should have any questions, please call our Sacramento office at (916) 631-1300.

c: Mr. Bob Cochran, Chevron Products Company



# GETTLER - RYAN INC.

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September 29, 1997

Mr. Bob Cochran  
Chevron Products Company  
P.O. Box 6004  
San Ramon, California 94583

Subject: Letter Work Plan for RMC Lonestar Facility, 333 23rd Avenue, Oakland, California.

Mr. Cochran:

At the request of Chevron Products Company (Chevron), Gettler-Ryan (GR) has prepared this letter work plan in response to our meeting with Mr. Barney Chan of Alameda County Health Care Service (ACHCS) on May 15, 1997. ACHCS requested that well MW-4 be located, four potentiometric maps be prepared covering the last four years, and ORC be installed in well MW-8.

GR made several attempts in May and June 1997 to locate well MW-4. Unfortunately, this well was never located. At the request of Chevron, GR installed an additional well (MW-14) northwest of MW-4 in June 1997. This well was added as a replacement well to MW-4 in the regularly scheduled second quarter 1997 monitoring and sampling event. Wells MW-1, MW-8, MW-11, and MW-14 were purged and sampled in June 1997. This data was presented in GR's Well Installation and Quarterly Groundwater Monitoring Report Second Quarter 1997 dated September 10, 1997.

After the installation of well MW-14, wells MW-1, MW-5, MW-7 through MW-11, and MW-14 were surveyed to mean sea level. Utilizing this data, five potentiometric maps were prepared for 1990 and 1993 through 1996. The flow direction was consistently to the southwest with gradients ranging from 0.03 to 0.05. These potentiometric maps are attached.

## **Proposed Scope of Work**

Oxygen releasing compound (ORC) manufactured by REGENESIS was installed in wells MW-1, MW-7, MW-9, and MW-10 by Geraghty & Miller, Inc. (GM) in March 1996. The Site Closure Plan (dated August 30, 1996) prepared by GM proposed semi-annual monitoring and sampling of wells MW-1, MW-4, and MW-11. This plan was approved by ACHCS in a letter dated December 3, 1996 with the condition that well MW-8 be included in the semi-annual monitoring and sampling events. The semi-annual monitoring and sampling of wells MW-1, MW-4, MW-8, and MW-11 was initiated in December 1996. Well MW-4 could not be located and was not sampled in December 1996. Based on this GR proposes the following scope of work:

1. Well MW-14 will replace well MW-4 in the semi-annual monitoring and sampling events. Wells MW-1, MW-8, MW-11, and MW-14 are included in the monitoring and sampling program.
2. ORC will be replenished in wells MW-1, MW-7, MW-9, and MW-10 and added to well MW-8.

CH\_RMC.BC2

This will be accomplished by October 17, 1997.


3. Since ORC will be in wells MW-1 and MW-8 during the fourth quarter 1997 semi-annual monitoring and sampling event, these wells will only be sampled (no purging). During the second quarter 1998 semi-annual event these wells will be purged and sampled.

If you should have any questions regarding this letter, please call our Sacramento office at (916) 631-1300.

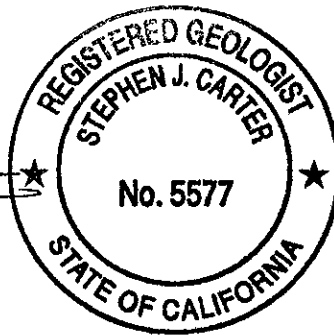
Sincerely  
Gettler-Ryan Inc.



Greg A. Gurss  
Project Manager



Stephen J. Carter  
Senior Geologist, R.G. 5577



Attachment: Potentiometric Maps (five)

Table 1. Groundwater Elevations for Selected Quarters Recalculated Using New Survey Data - Chevron/RMC  
 Lonestar Facility CPS #206142, 333 -23rd Avenue, Oakland, California

Well ID/ TOC*	Date	Depth to Water (ft)	GWE **	Product Thickness (ft)
MW-1 10.16	12/21/90	9.77	2.05	2.07
	12/18/93	8.45	1.73	0.03
	10/04/94	8.71	1.48	0.04
	06/30/95	---	---	---
	03/24/96	7.68	2.49	0.01
	06/30/97	8.65	1.51	0.00
MW-5 11.11	12/21/90	9.11	2.00	---
	12/18/93	8.72	2.39	---
	10/04/94	---	---	---
	06/30/95	8.78	2.33	---
	03/24/96	---	---	---
MW-7 10.15	12/21/90	7.90	2.26	0.01
	12/18/93	8.01	2.14	---
	10/04/94	7.82	2.33	---
	06/30/95	8.33	1.82	---
	03/24/96	7.69	2.47	0.01
MW-8 10.09	12/21/90	8.53	1.58	0.02
	12/18/93	---	---	---
	10/04/94	---	---	---
	06/30/95	8.09	2.00	---
	03/24/96	---	---	---
	06/30/97	11.65	-1.56	0.00
MW-9 10.13	12/21/90	7.86	2.27	Sheen
	12/18/93	7.91	2.22	---
	10/04/94	---	---	---
	06/30/95	8.34	1.79	---
	03/24/96	---	---	---
MW-10 10.91	12/21/90	8.92	1.99	---
	12/18/93	7.87	3.04	---
	10/04/94	---	---	---
	06/30/95	8.95	1.96	---
	03/24/96	---	---	---
MW-11 6.71	12/21/90	8.59	-1.88	Sheen
	12/18/93	8.26	-1.55	---
	10/04/94	7.94	-1.23	---
	06/30/95	8.81	-2.10	---
	03/24/96	8.46	-2.03	---
	06/30/97	8.63	-1.92	0.00

Table 1. Water Level Data & Groundwater Analytical Results - Chevron/RMC Lonestar Facility CPS# 206142, 333 - 23rd Avenue, Oakland, California (continued)

Well ID/ TOC*	Date	Depth to Water (ft)	GWE **	Product Thickness (ft)
MW-14 5.56	06/30/97	7.48	-1.92	0.00

**EXPLANATION:**

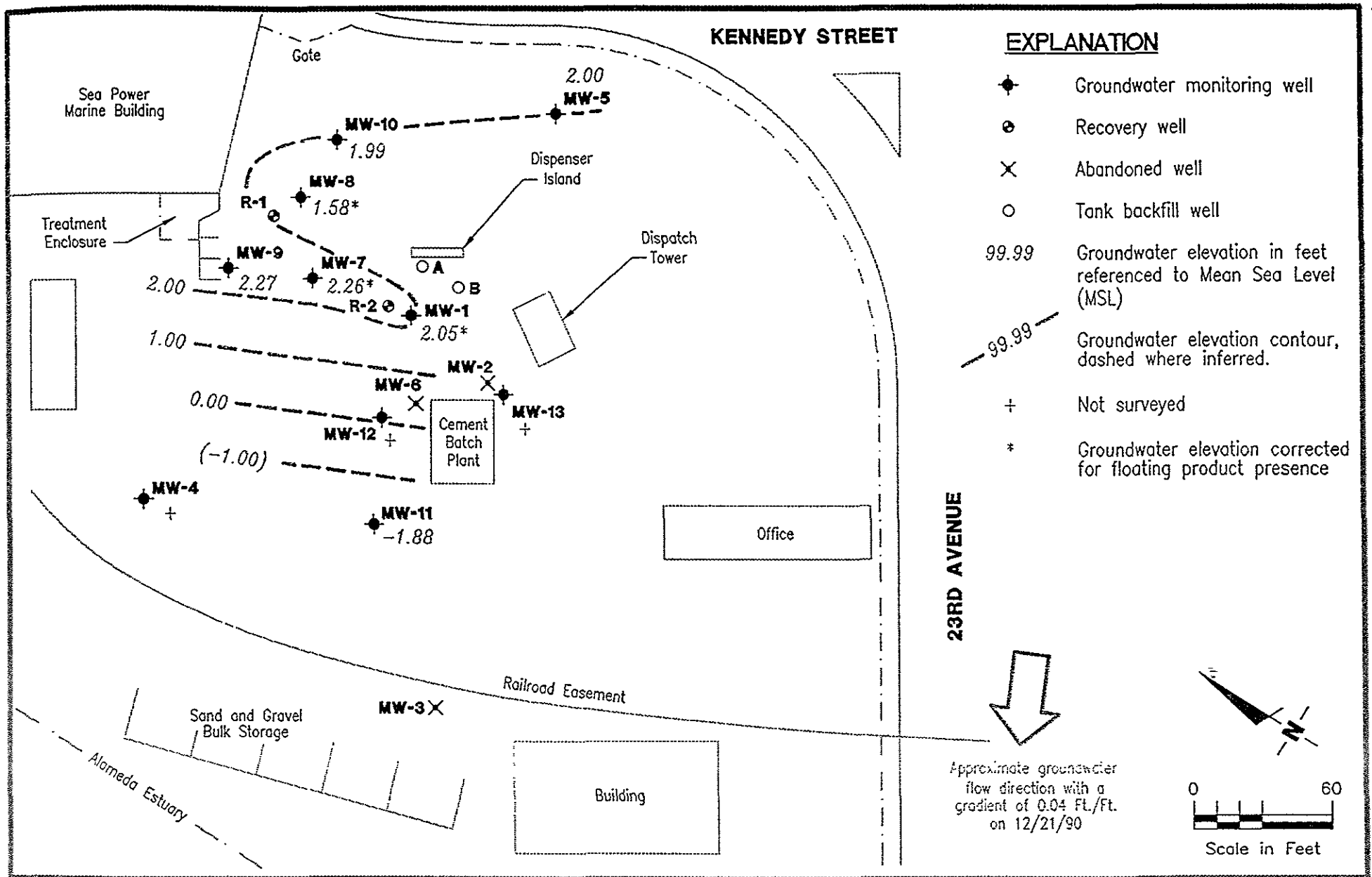
TOC = Top of Casing  
 (ft) = Feet  
 GWE = Groundwater Elevation  
 --- = Not Available

**NOTES:**

Water level elevation data prior to December 8, 1996, were compiled from Quarterly Groundwater Monitoring Reports prepared for Chevron by Geraghty & Miller, Inc.

\*\*\* Site surveyed by Virgil Chavez Land Surveying on 07/03/1997. The benchmark for the survey was a cut square in the northerly curb of East 7th Street, at the east return at the northeast corner of East 7th Street and Peterson Street. Benchmark elevation: 17.91 feet, msl. Wells MW-4 and MW-13 were not surveyed because these wells could not be located. TOC elevation of well MW-12 also was not surveyed.

\*\* Groundwater Elevation is corrected for the presence of separate-phase hydrocarbons and is calculated as follows: [(TOC-DTW) + (Product Thickness x 0.8)]. 0.8 is the assumed specific gravity of free-phase hydrocarbons.



**Gettler - Ryan Inc.**

6747 Sierra Ct., Suite J (510) 551-7555  
Dublin, CA 94568

POTENTIOMETRIC MAP  
Chevron/RMC Lonestar Facility CPS #206142  
333 23rd Avenue  
Oakland, California

FIGURE

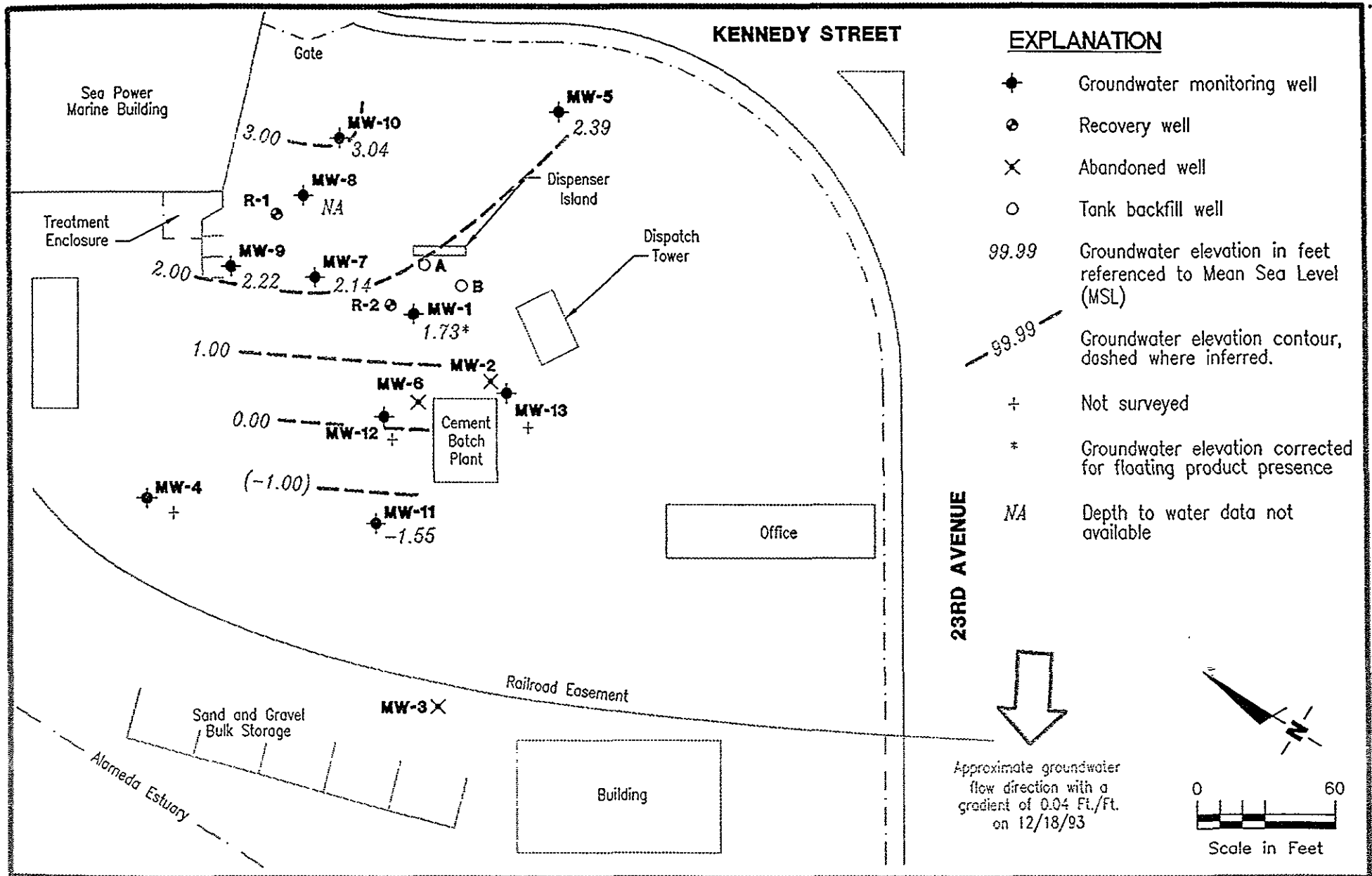
**2**

JOB NUMBER  
6338.01

REVIEWED BY  
*BS*

DATE  
September, 1997

REVISED DATE



**Gettler - Ryan Inc.**

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POTENTIOMETRIC MAP  
Chevron/RMC Lonestar Facility CPS #206142  
333 23rd Avenue  
Oakland, California

FIGURE

**2**

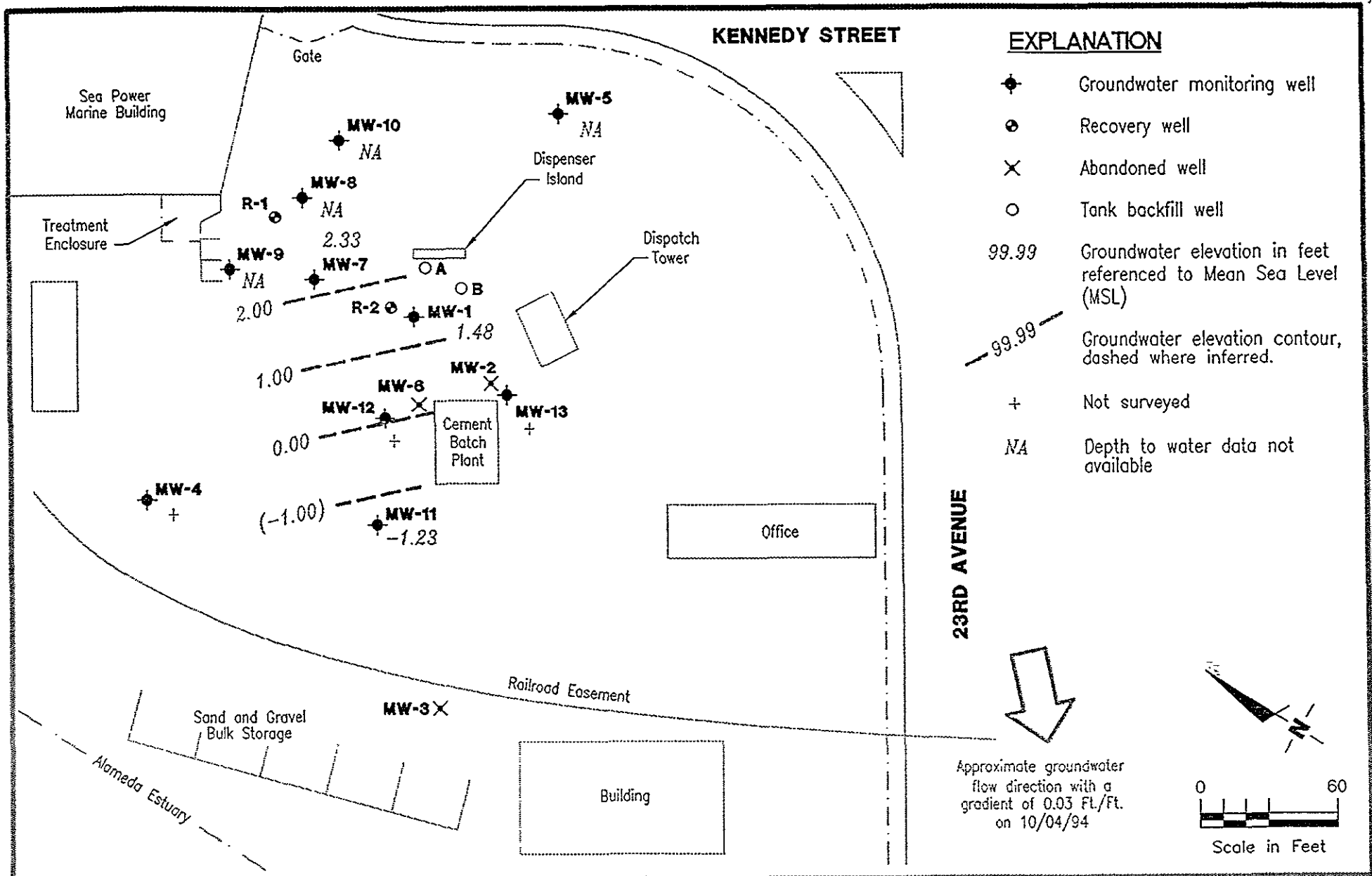
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Chevron/RMC Lonestar Facility CPS #206142  
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FIGURE

2

JOB NUMBER  
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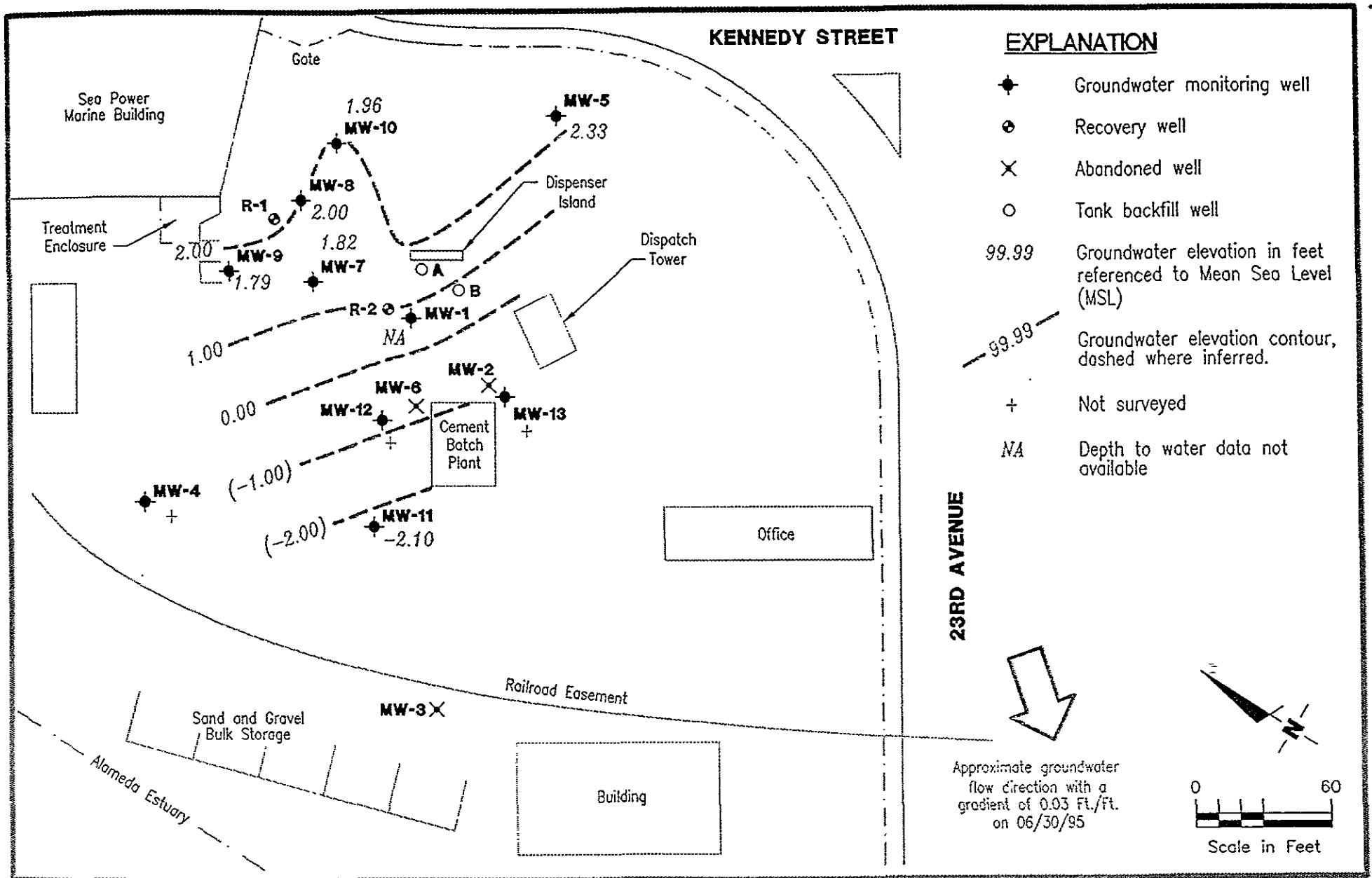
REVIEWED BY

DATE

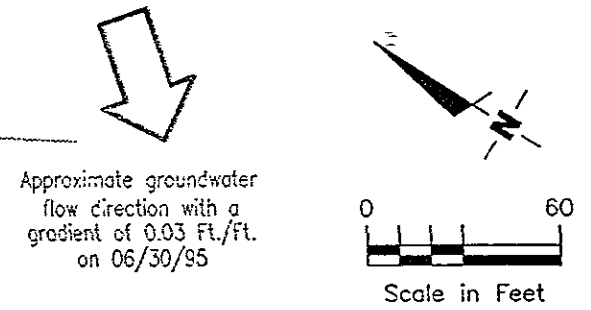
September, 1997

REVISED DATE





- EXPLANATION**
- ◆ Groundwater monitoring well
  - ⊕ Recovery well
  - × Abandoned well
  - Tank backfill well
  - 99.99 Groundwater elevation in feet referenced to Mean Sea Level (MSL)
  - - - 99.99 Groundwater elevation contour, dashed where inferred.
  - + Not surveyed
  - NA Depth to water data not available



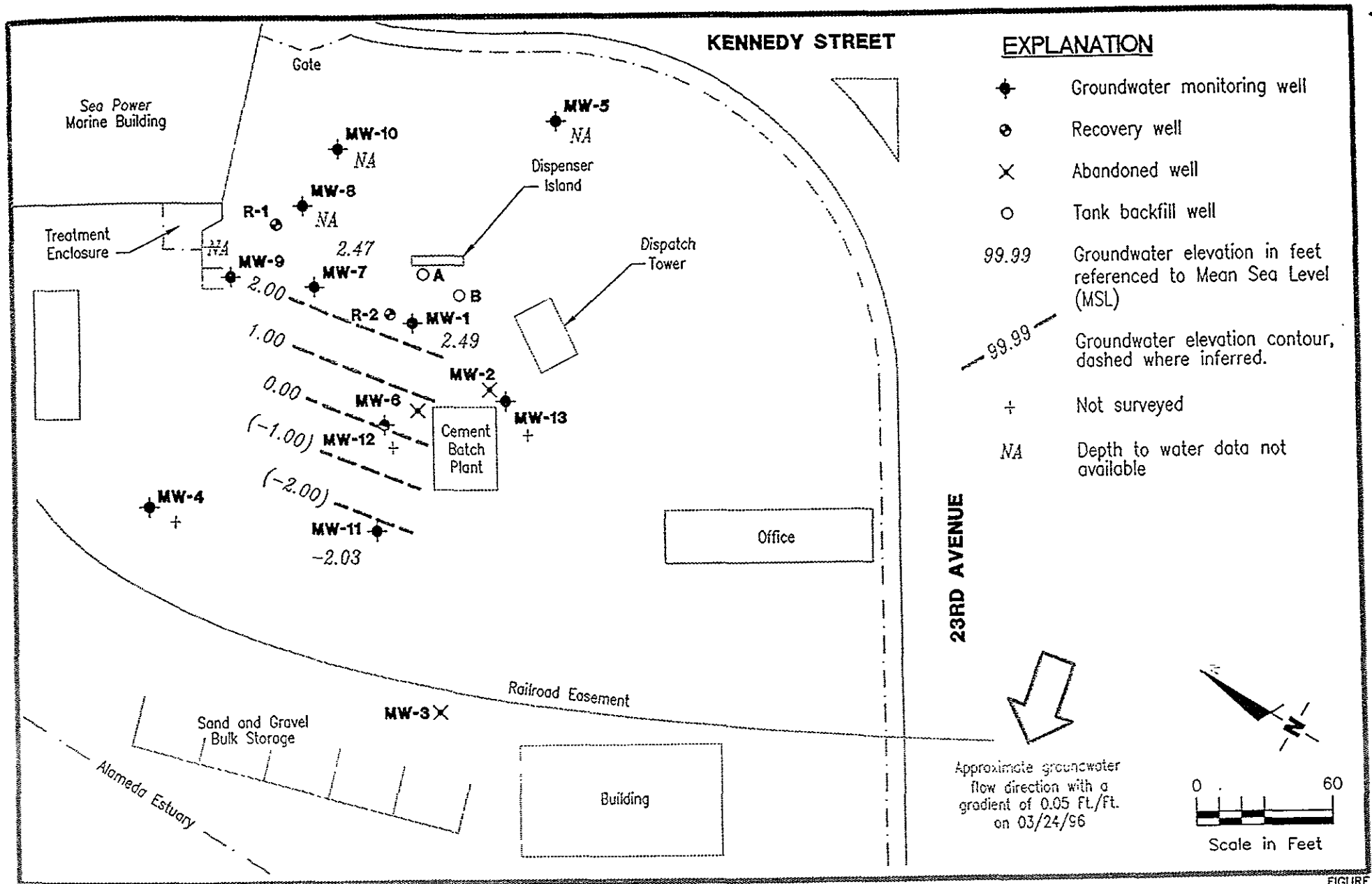
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POTENTIOMETRIC MAP  
Chevron/RMC Lonestar Facility CPS #206142  
333 23rd Avenue  
Oakland, California

FIGURE  
**2**

JOB NUMBER 6338.01	REVIEWED BY PS	DATE September, 1997	REVISED DATE
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FIGURE

**2**



**Gettler - Ryan Inc.**

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POTENTIOMETRIC MAP  
Chevron/RMC Lonestar Facility CPS #206142  
333 23rd Avenue  
Oakland, California

JOB NUMBER  
6338.01

REVIEWED BY  
*[Signature]*

DATE  
September, 1997

REVISED DATE