



November 1, 1990

Mr. Stanley Sun
Department of Health Services
Technical Services
700 Heinz Avenue
Second Floor
Berkley, California 94710

Dear Stanley:

**Subject: T-Series Land Surveys and Water Measurements at Mare
Island Naval Shipyard Vallejo, Ca.; IT Project
Number 409728, A1T.263**

Enclosed are floppy disks with the survey and water level data you requested during our meeting of October 31, 1990. Data is listed under file name: T-SERIES. Included as Table 1 is a hardcopy of the data. Water level measurements were taken on October 17, 1990. Also included for your information in Table 2 are the water levels taken on May 30 and September 17, 1990 during past quarterly samplings of the subject wells. Water elevations for each of the three periods were computed using the elevations determined during the October land surveying.

Horizontal coordinates were referenced to the state coordinate system in keeping with our policy to utilize a common reference system for all environmental work at the IR sites. Locations were determined to the nearest 1.0 foot. Elevation were referenced to the Yard Datum which corresponds to Mean Lower Low Water Level minus 100 feet. Elevations were determined for each well at the following points:

- a notch on the top of the PVC riser pipe
- the top of the outer steel protective casing
- the ground surface adjacent to the well.

All elevations were determined to the nearest 1/100 ft. Wells T2S and T2D have been destroyed and were not available for surveying.

We appreciate the opportunity to provide this information as we support the Navy in their efforts to address environmental concerns of the State of California.

Yours Truly,

 FOR
Dennis R. Williams, P.E.
Project Manager

Regional Office

Enclosures 4585 Pacheco Boulevard • Martinez, California 94553 • 415-372-9100

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cc: (without computer disks)
Stephen Chao, Western Division Naval Command, San Bruno, Ca
Chandler Smith, Mare Island Naval Shipyard, Vallejo, Ca
Patricia Franzen, Energy Systems, Oak Ridge, Tn
Alison Harlick, Automated Science Group, Oliver Springs, Tn

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**Table 1 T-Series Well Data and Water Elevations
Mare Island Naval Shipyard
Vallejo, CA**

Date: 17-Oct-90

Well Number	National Geodetic Survey Coordinates		Mare Island Local Coordinates		Top of Protective Casing Elevation (ft.)	Top of Casing Elevation (ft.)	Ground Surface Elevation (ft.)	Ground Surface Elevation Descriptor	Depth to Water (ft.)	Point of Reference	Water Level Elevation (ft.)
	North	East	North	East							
IR01-T1S	586061.34	1485518.08	-10125.42	-15666.65	125.27	124.63	122.08	CONCRETE PAD	9.98	TOC	114.65
IR01-T3S	585789.28	1486559.52	-10942.52	-14965.87	127.01	126.28	125.41	DIRT	7.80	TOC	118.48
IR01-T4S	586484.80	1486783.23	-10498.45	-14385.65	120.00	119.22	117.12	CONCRETE PAD	8.98	TOC	110.24
IR01-T5S	586934.84	1486455.02	-9941.57	-14398.88	119.26	118.48	117.16	CONCRETE PAD	9.00	TOC	109.48
IR01-T6S	587084.69	1485965.66	-9539.54	-14715.62	117.86	116.57	115.66	DIRT	4.89	TOC	111.68
IR01-T7S	586935.26	1485065.44	-9149.29	-15540.56	123.26	122.54	120.46	CONCRETE PAD	10.56	TOC	111.98
IR01-T8S	584496.20	1486918.61	-12209.79	-15407.71	132.58	132.20	126.30	DIRT	11.64	TOC	120.56
IR01-T1I	586059.94	1485522.16	-10128.90	-15664.09	123.80	123.07	122.13	CONCRETE PAD	6.50	TOC	116.57
IR01-T2I	585529.81	1486076.43	-10880.42	-15510.73	126.25	125.42	124.00	DIRT	15.72	TOC	109.70
IR01-T3I	585784.04	1486555.23	-10944.38	-14972.38	126.67	126.17	125.41	DIRT	16.72	TOC	109.45
IR01-T4I	586489.96	1486780.06	-10492.40	-14385.31	119.93	119.14	116.94	CONCRETE PAD	10.88	TOC	108.26
IR01-T5I	586930.97	1486458.51	-9946.74	-14398.22	119.03	117.94	116.82	CONCRETE PAD	9.98	TOC	107.96
IR01-T6I	587085.70	1485959.47	-9535.18	-14720.13	118.17	117.05	115.88	CONCRETE PAD	8.42	TOC	108.63
IR01-T7I	586940.38	1485063.75	-9144.13	-15539.03	123.60	122.37	120.22	DIRT	12.68	TOC	109.69
IR01-T8I	584492.59	1486918.73	-12212.82	-15409.67	132.20	131.54	126.39	DIRT	20.72	TOC	110.82
IR01-T1D	586061.13	1485530.16	-10132.47	-15656.84	125.81	125.08	122.49	CONCRETE PAD	17.28	TOC	107.80
IR01-T1DO	586082.18	1485526.16	-10112.90	-15648.13	124.88	124.68	122.90	DIRT	16.74	TOC	107.94
IR01-T3D	585797.05	1486566.76	-10940.26	-14955.49	128.01	126.53	125.14	DIRT	17.82	TOC	108.71
IR01-T4D	586497.63	1486775.39	-10483.44	-14384.78	119.74	118.90	117.01	CONCRETE PAD	10.82	TOC	108.08
IR01-T5D	586938.30	1486452.34	-9937.20	-14399.11	118.38	117.36	117.02	CONCRETE PAD	9.86	TOC	107.50
IR01-T5DO	586955.28	1486441.58	-9917.12	-14398.28	118.97	118.78	117.01	CONCRETE PAD	11.30	TOC	107.48
IR01-T6D	587092.20	1485962.34	-9531.47	-14714.07	118.22	117.16	116.25	DIRT	10.00	TOC	107.16
IR01-T7D	586947.44	1485057.33	-9134.66	-15540.28	122.35	121.54	120.49	DIRT	14.88	TOC	106.66
IR01-T8D	584477.25	1486967.50	-12253.21	-15378.34	132.31	131.94	126.53	DIRT	22.14	TOC	109.80

**Table 2 T-Series Well Data and Water Elevations
Mare Island Naval Shipyard
Vallejo, CA**

WELL NUMBER	DEPTH TO WATER (ft.)		TOP OF CASING ELEVATION (ft.)	POINT OF REFERENCE	WATER LEVEL ELEVATION (ft.)	
	MAY 1990	OCT 1990			MAY 1990	OCT 1990
IR01-T1S	10.04	10.28	124.63	TOC	114.59	114.35
IR01-T3S	10.50	7.78	126.28	TOC	115.78	118.50
IR01-T4S	7.54	8.68	119.22	TOC	111.68	110.54
IR01-T5S	6.32	8.08	118.48	TOC	112.16	110.40
IR01-T6S	4.08	4.98	116.57	TOC	112.49	111.59
IR01-T7S	10.55	10.68	122.54	TOC	111.99	111.86
IR01-T8S	10.10	10.1	132.20	TOC	122.10	122.10
IR01-T1I	11.71	7.68	123.07	TOC	111.36	115.39
IR01-T2I	16.00	16.28	125.42	TOC	109.42	109.14
IR01-T3I	16.70	16.6	126.17	TOC	109.47	109.57
IR01-T4I	10.36	10.88	119.14	TOC	108.78	108.26
IR01-T5I	9.28	9.92	117.94	TOC	108.66	108.02
IR01-T6I	7.77	8.36	117.05	TOC	109.28	108.69
IR01-T7I	12.35	12.74	122.37	TOC	110.02	109.63
IR01-T8I	21.40	20.96	131.54	TOC	110.14	110.58
IR01-T1D	17.16	17.38	125.08	TOC	107.92	107.70
IR01-T1DO	16.44	NT	124.68	TOC	108.24	NT
IR01-T3D	17.70	17.92	126.53	TOC	108.33	108.61
IR01-T4D	10.34	10.84	118.90	TOC	108.56	108.06
IR01-T5D	9.28	9.84	117.36	TOC	108.08	107.52
IR01-T5DO	10.36	NT	118.78	TOC	108.42	NT
IR01-T6D	9.37	9.96	117.16	TOC	107.79	107.20
IR01-T7D	14.38	14.96	121.54	TOC	107.16	106.58
IR01-T8D	21.70	22.26	131.94	TOC	110.24	109.68

NT: Not Taken

All water level elevations are based on the October survey elevations

ENCLOSURES

FLOPPY DISKS WITH THE SURVEY AND
WATER LEVEL DATA

THESE ENCLOSURES WERE NOT RECEIVED IN THE
RESTORATION RECORD FILE.

FOR ADDITIONAL INFORMATION, CONTACT:

DIANE C. SILVA, COMMAND RECORDS MANAGER, CODE EV33
NAVAL FACILITIES ENGINEERING COMMAND, SOUTHWEST
1220 PACIFIC HIGHWAY (NBSD BLDG. 3519)
SAN DIEGO, CA 92132

TELEPHONE: (619) 556-1280
E-MAIL: diane.silva@navy.mil