DEPARTMENT OF THE NAVY
NAVAL TRAINING CENTER
SAN DIEGO, CALIFORNIA 92133

N00247.000009
NTC SAN DIEGO
SSIC #5090.3
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010/0563

26 JUL 1991

Mr. John Menatti
County of San Diego
Department of Health Services
Environmental Health Services
Hazardous Materials Management Division
P. O. Box 85261
San Diego, CA 92186-5261

Dear Mr. Menatti:

We are in the process of planning for the disposal of soil and water generated from the installation of groundwater monitoring wells at the Naval Training Center, San Diego. The wells were installed for accomplishment of a site investigation (SI) at the Navy Exchange Gas Station and an SI and Solid Waste Assessment Test (SWAT) at the old Marine Corps Recruit Depot (MCRD) disposal area. Please review the below disposal plan for approval and notify us of your decision as soon as possible.

At the MCRD Disposal Area, 44 drums of soil and 78 drums of water were generated. At the Navy Exchange Gas Station, 8 drums of soil and 14 drums of water were generated. Analytical results of the soil and water at both sites are enclosed and represent the chemical composition of the drummed soil and water.

The drummed soil from both sites will be transported by Environspectrum, Inc. of Stanton, California (hauler registration No. 2524; E.P.A. I.D. No. CAD 982481939) to the U.S. Ecology, Inc. landfill located in Beatty, Nevada (state permit No. NEV HW002; E.P.A. ID No. NVT330010000).

Water generated at the MCRD Disposal Area will be discharged to the City of San Diego sewer with the approval of the City of San Industrial Waste Program. Water generated at the Navy Exchange Gas Station will be transported by Asbury Oil Company of Compton, California (hauler registration No. 0015; E.P.A. I.D. No. CAT080013352) for treatment.

Thank you for your prompt attention in this matter. If you have any questions or need additional information, please contact my Environmental Engineer, Ms. Martha Gandy, at 524-1022.

Sincerely,

P. N. JOHNSON
Captain, U. S. Navy
Chief of Staff
By direction of
the Commander

Encl:
(1) Analytical results

Copy to:
CO, SWDIVNAVFACENGCOM, (Code 1822.MP)

Table 7.2
Concentrations of Contaminants Detected in the Soil
Volatile Organics

Sample Location	Sample Depth (feet)	Concentration (ug/kg)		
		Methylene Chloride *	Acetone	2-Butanone
SB-1	0.5	2	<10	<10
	2	2	2 *	<10
	5	2	<10	<10
		2	2 *	<10
SB-2	0.5	2	<10	<10
	2	2	7 *	<10
	5	3	<10	<10
		2	<10	<10
SMW-4	0.5	2 (3)	12 ** (9*)	<10 <10
	2	2 (2)	7 * (9*)	<10 <10
	5	3	13 **	<10
		4	22 **	<10
SMW-5	0.5	2	5 *	<10
	1.5	3	4 *	<10
	5	2	36	<10
		2	9 *	<10
SMW-6	0.5	2	4 *	<10
	1.5	1	4 *	<10
	5	3	4 *	<10
		3	6 *	<10
		2	7 *	<10
SMW-7	0.5	2	<10	<10
	1.5	2	<10	<10
	5	2.5	<10	<10
		2.5	<10	<10
SMW-8	0.5	3	<10	<10
	1.5	2	<10	<10
	5	3	8 *	<10
SMW-9	0.5	2	<10	<10
	2	2	<10	<10
	5	2	9 *	2 ***
SMW-10	0.5	3 (1)	8 * (6*)	<10 <10
	1.5	3	30 **	<10
	5	5	5 *	<10
		3	21 **	<10
DMW-10	0.5	2 (3)	5 * (6*)	<10 <10
	1.5	2	5 *	<10
	5	3	19 **	<10

* Detected below Contract Required Detection Limit (CRDL); also detected in laboratory blank.

** Also detected in laboratory blank.

*** Detected below CRDL.

< Not detected at indicated value.

Note: Number in parenthesis indicates level detected in second analysis.

Table 7.3

Concentrations of Contaminants Detected in the Soil
Semi-Volatile Organics
(Sheet 1 of 2)

Sample Location	Sample Depth (feet)	Concentration (ug/kg)								
		2,4,5-Trichlorophenol	Pentachlorophenol	Phenanthrene	Anthracene	Di-n-Butylphthalate	Fluoranthene	Pyrene	Butylbenzylphthalate	Benzo(a)Anthracene
SB-1	0.5	<1600	<1600	<330	<330	180 *	<330	<330	<330	<330
	2	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
	5	<1600	<1600	<330	<330	<330	<330	<330	39 *	<330
		<1600	<1600	<330	<330	<330	<330	<330	<330	<330
SB-2	0.5	<1600	44 *	88 *	110 *	<330	500	700	<330	900
	2	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
	5	<1600	<1600	<330	<330	<330	<330	<330	<330	39 *
		<1600	<1600	<330	<330	<330	340	330	<330	200 *
SMW-4	0.5	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
	2	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
	5	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
		<1600	<1600	<330	<330	<330	<330	<330	<330	<330
SMW-5	0.5	600 *	<3200	<660	<660	<660	<660	<660	<660	<660
	1.5	940 *	<3200	<660	<660	<330	<660	<660	52 *	<660
	5	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
		<1600	<1600	<330	<330	<330	<330	<330	<330	<330
SMW-6	0.5	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
	1.5	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
	5	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
		4600	250 *	<1650	<1650	<330	<1650	<1650	<1650	<1650
		<1600	<1600	<330	<330	<330	<330	<330	<330	<330
SMW-7	0.5	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
	1.5	11,000	<3200	<660	<660	<660	<660	<660	190 *	74 *
	5	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
		4600 *	<8000	<1650	<1650	<1650	<1650	<1650	<1650	<1650
SMW-8	0.5	4400	<3200	<660	<660	<660	<660	79 *	<660	<660
	1.5	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
	5	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
SMW-9	0.5	1500 *	<8000	<1650	<1650	<1650	<1650	<1650	<1650	210 *
	2	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
	5	<1600	<1600	<330	<330	<330	<330	<330	<330	<330
SMW-10	0.5	<1600	70 *	<330	<330	420	65 *	74 *	<330	<330
	1.5	550 *	150 *	<660	<660	<660	<660	82 *	<660	<660
	5	1300 *	130 *	<660	<660	<660	<660	<660	<660	<660
		1200 *	96 *	<660	<660	<660	<660	<660	160 *	<660
DMW-10	0.5	380 *	140 *	<660	<660	220 *	<660	<660	<660	<660
	1.5	840 *	140 *	<660	<660	<660	<660	<660	<660	<660
	5	<1600	<1600	<330	<330	<330	<330	49 *	<330	<330

* Detected below Contract Required Detection Limit.
< Not detected at indicated value.

Table 7 3

Concentrations of Contaminants Detected in the Soil
Semi-Volatile Organics
(Sheet 2 of 2)

Sample Location	Sample Depth (feet)	Concentration (ug/Kg)							
		Benzo(a)Pyrene	Indeno(1,2,3-cd)Pyrene	Dibenz(a,h)Anthracene	Benzo(g,h,i)Perylene	Chrysene	bis(2-Ethylhexyl)Phthalate	Benzo(b)Fluoranthene	Benzo(k)Fluoranthene
SB-1	0.5	<330	<330	<330	<330	<330	100 *	<330	<330
	2	<330	<330	<330	<330	<330	48 *	<330	<330
	5	<330	<330	<330	<330	<330	260 *	<330	<330
		<330	<330	<330	<330	<330	100 *	<330	<330
SB-2	0.5	3600	4200	1100	4000	2600	59 *	5700	4500
	2	<330	<330	<330	<330	<330	<330	<330	<330
	5	240 *	<330	<330	150 *	170 *	134 *	<330	490
		440	<330	<330	280 *	490	64 *	530	680
SMW-4	0.5	<330	<330	<330	<330	<330	60 *	<330	<330
	2	<330	<330	<330	<330	<330	<330	<330	<330
	5	<330	<330	<330	<330	<330	<330	<330	<330
		<330	<330	<330	<330	<330	<330	<330	<330
SMW-5	0.5	<660	<660	<660	<660	<660	240 *	<660	<660
	1.5	<660	<660	<660	<660	<660	245 *	<660	<660
	5	<330	<330	<330	<330	<330	<330	<330	<330
		<330	<330	<330	<330	<330	<330	<330	<330
SMW-6	0.5	<330	<330	<330	<330	<330	<330	<330	<330
	1.5	<330	<330	<330	<330	<330	580	<330	<330
	5	<330	<330	<330	<330	<330	<330	<330	<330
		<1650	<1650	<1650	<1650	<1650	950	<1650	<1650
		<330	<330	<330	<330	<330	<330	<330	<330
SMW-7	0.5	<330	<330	<330	<330	<330	78 *	<330	<330
	1.5	<660	<660	<660	<660	<660	2200	<660	<660
	5	<330	<330	<330	<330	<330	<330	<330	<330
		<1650	<1650	<1650	<1650	<1650	1300 *	<1650	<1650
SMW-8	0.5	<660	<660	<660	<660	<660	900	<660	<660
	1.5	<330	<330	<330	<330	<330	<330	<330	<330
	5	<330	<330	<330	<330	<330	<330	<330	<330
SMW-9	0.5	<1650	<1650	<1650	<1650	<1650	940 *	<1650	<1650
	2	<330	<330	<330	<330	<330	<330	<330	<330
	5	<330	<330	<330	<330	<330	<330	<330	<330
SMW-10	0.5	<330	<330	<330	<330	<330	91 *	<330	<330
	1.5	<660	<660	<660	<660	<660	250 *	<660	<660
	5	<660	<660	<660	<660	<660	400 *	<660	<660
		<660	<660	<660	<660	<660	500 *	<660	<660
DMW-10	0.5	<660	<660	<660	<660	<660	165 *	<660	<660
	1.5	<660	<660	<660	<660	<660	210 *	<660	<660
	5	<330	<330	<330	<330	<330	<330	<330	<330

* Detected below Contract Required Detection Limit.
< Not detected at indicated value.

Table 7.4

Concentrations of Contaminants Detected in the Soil
Heavy Metals
(Sheet 1 of 3)

Sample Location	Sample Depth (Feet)	Concentration (mg/Kg)							
		Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium
SB-1	0.5	9790	<4.7	3.9	50.6	0.33 *	<0.85	6250	12.1
	2	6300	5.0 *	2.0 *	22.4 *	<0.22	<0.87	1020 *	10.9
	5	9020	<5.1	3.9	56.6	0.35 *	<0.92	6690	14.4
		7520	<4.9	4.6	52.9	0.27 *	<0.89	7550	14.2
SB-2	0.5	7720	<4.8	2.1 *	37.2 *	<0.22	<0.88	2640	11.1
	2	9710	<5.1	1.1 *	39.1 *	<0.23	<0.92	679 *	8.3
	5	6970	<5.8	1.2 *	35.2 *	<0.22	<0.87	440 *	7.5
		10400	<5.1	1.8 *	45.8 *	<0.23	<0.93	11800	11.8
SMW-4	0.5	28400	5.4 *	3.3	105	0.41 *	<0.94	4920	37.6
	2	10900	<5.0	3.1	37.3 *	<0.23	<0.91	2000	15.9
	5	39800	<6.2	6.4 *	127	0.58 *	<1.1	3640	43.8
		45000	<5.1	6.9 *	126	0.66 *	<0.93	2880	48.4
SMW-5	0.5	8290	<4.9	2.5	55.6	<0.22	<0.87	2760	14.6
	1.5	12500	<5.2	2.8	63.4	<0.24	<0.94	3650	16.6
	5	38700	<4.7	8.7 *	114	0.81 *	1.7	4360	47.9
		22200	<4.8	13.4	104	0.47 *	<0.87	1270	33.1
SMW-6	0.5	8020	<4.7	6	53.7	0.40 *	<0.86	6720	10.7
	1.5	7660	<5.0	4.5	61.8	0.29 *	<0.91	5830	10.6
	5	7540	<5.0	6	65	0.38 *	<0.90	14000	12.6
		16500	<5.4	5.4	81.5	0.39 *	<0.98	5570	23.9
		11300	<5.5	8.8	71.3	0.67 *	<1.0	37700	15.5
SMW-7	0.5	6210	<4.8	4.8	100	<0.22	<0.88	1980	8.4
	1.5	15900	<4.8	3.8	84.8	0.26 *	<0.87	4320	22
	5	25300	<4.9	3.4	99.9	0.40 *	<0.90	2080	32
		22300	<5.6	4.8	114	0.40 *	<1.0	5320	30.4
SMW-8	0.5	9560	<6.0	3.5	74.7	<0.27	<1.1	8240	16.5
	1.5	6410	<5.1	2.3	40.3 *	<0.23	<0.92	811 *	10.4
	5	3810	<5.0	1.2 *	27.9 *	<0.23	<0.91	1750	7
SMW-9	0.5	10300	<5.2	3.8	69	<0.24	<0.95	5550	18.2
	2	2280	<4.7	0.96 *	12.7 *	<0.22	<0.86	937 *	4.5
	5	3800	<5.0	1.3 *	13.3 *	<0.23	<0.91	8890	6
SMW-10	0.5	17000	<5.1	1.5 *	84.1	<0.23	<0.93	1320	10.7
	1.5	28100	6.6 *	4.8	108	0.40 *	<0.93	6130	33.6
	5	17800	<4.9	3.8	107	0.26 *	<0.90	4750	25.8
		17900	<4.6	4.1	89.5	0.27 *	<0.84	4600	25.9
DMW-10	0.5	12700	5.0 *	1.6 *	80.7	<0.23	<0.91	2520	12.4
	1.5	14300	<4.9	4.6	90.5	0.24 *	<0.89	2010	23.2
	5	18900	6.3 *	4.1	101	0.30 *	<0.93	4130	28

* Detected below Contract Required Detection Limit.

Table 7.4

Concentrations of Contaminants Detected in the Soil
Heavy Metals
(Sheet 2 of 3)

Sample Location	Sample Depth (Feet)	Concentration (mg/Kg)							
		Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel
SB-1	0.5	4.1 *	7.4	11400	20.8	2880	123	<0.11	5.3 *
	2	4.0 *	6.5	9890	5.3	2000	59.7	<0.11	3.1 *
	5	4.5 *	11.1	12800	13.1	3460	148	<0.12	6.2 *
		4.3 *	9.1	12400	29	3410	139	<0.11	4.9 *
SB-2	0.5	3.7 *	8.4	8620	29	1950	114	<0.11	5.2 *
	2	3.6 *	7.9	7070	10.3	1180	157	<0.12	3.7 *
	5	3.3 *	9.8	6510	4.3	1270	120	<0.11	3.2 *
		4.1 *	8.8	9260	61.3	1890	177	<0.12	5.3 *
SMW-4	0.5	10.3 *	31.5	28500	10.7	7160	232	<0.14	10.2
	2	4.2 *	9.6	10400	2.6	3600	91.6	<0.11	5.2 *
	5	12.7 *	38.2	34900	8.8	9300	243	<0.13	16.1
		12.8	36.8	43000	13.6	9910	271	0.17	16.1
SMW-5	0.5	5.1 *	22.8	12600	10.9	3110	149	<0.11	5.1 *
	1.5	6.1 *	14.8	15500	28.6	3610	201	<0.12	6.3 *
	5	13.4	46.5	40800	11.7	10000	255	0.18	16.8
		11.7	17.6	27000	7.3	7970	214	0.16	11.8
SMW-6	0.5	3.8 *	14	10200	6.4	3770	196	<0.11	4.3 *
	1.5	3.9 *	8.9	10000	3.3	3160	141	<0.11	4.8 *
	5	4.9 *	10.6	10600	3.7	3730	179	<0.11	4.9 *
		10.0 *	26.9	19300	21.8	5130	220	0.13	12.1
		4.7 *	23	14100	5.2	6080	456	<0.13	7.3
SMW-7	0.5	2.8 *	13.9	10200	6.7	2240	97.2	<0.11	3.3 *
	1.5	5.5 *	12.3	16300	29.7	4260	144	0.15	7.9 *
	5	9.9 *	14.7	25900	7.6	6840	183	0.15	10.1
		8.7 *	16.2	25700	31.5	6440	233	<0.12	11
SMW-8	0.5	5.3 *	17.1	13800	3.4	3510	151	<0.14	7.3 *
	1.5	3.5 *	5.2 *	8960	4.2	2320	76.1	0.11	3.5 *
	5	1.9 *	6.6	5300	1.5	1440	68	0.11	<1.6
SMW-9	0.5	5.9 *	15.6	15100	35.8	3740	187	<0.12	7.2 *
	2	<1.1	3.4 *	5170	0.86	568 *	25.6	<0.11	<1.5
	5	1.3 *	4.4 *	5470	1.1	1010 *	33	<0.11	<1.6
SMW-10	0.5	7.5 *	26.7	19800	5.4	4410	224	<0.12	5.0 *
	1.5	9.8 *	27.4	28400	53.8	7080	237	<0.11	11.4
	5	8.5 *	57.6	20700	17	5980	172	0.14	9.9
		7.4 *	75.8	20400	14.8	5670	186	0.11	7.8 *
DMW-10	0.5	6.2 *	24.8	16300	10.1	3320	223	<0.11	4.7 *
	1.5	7.3 *	46.9	19600	47.2	5060	187	0.14	8.3 *
	5	7.7 *	194	21600	16.2	5640	186	<0.12	7.9 *

* Detected below Contract Required Detection Limit.

Table 7.4

Concentrations of Contaminants Detected in the Soil
Heavy Metals
(Sheet (3 of 3)

Sample Location	Sample Depth (Feet)	Concentration (mg/Kg)						
		Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
SB-1	0.5	1580	<0.64	<1.1	410 *	<0.64	30.8	37.7
	2	1310	<0.65	<1.1	692 *	<0.65	30	19.1
	5	2130	<0.69	<1.2	714 *	<0.69	35.2	37.8
		2310	<0.67	<1.1	777 *	<0.67	35.2	35.8
SB-2	0.5	2050	<0.66	<1.1	874 *	<0.66	24.9	28.2
	2	1570	<0.69	<1.2	349 *	<0.69	17.9	19
	5	1460	<0.65	<1.1	320 *	<0.65	18.1	30.2
		2080	<0.70	<1.2	802 *	<0.70	24.8	29.1
SMW-4	0.5	6800	<0.71	<1.2	5940	<0.71	72.5	69.6
	2	2170	<0.69	<1.1	2780	<0.69	32	27.2
	5	8720	<4.2	<1.4	6050	<0.85	90.1	84.8
		9410	<3.5	<1.2	5760	<0.70	101	90.9
SMW-5	0.5	3120	<0.65	<1.1	264 *	<0.65	39.2	49
	1.5	3060	<0.71	<1.2	563 *	<0.71	44.5	64.7
	5	9850	<3.3	<1.1	7540	<0.65	106	109
		7810	<0.65	<1.1	6800	<0.65	72.1	61
SMW-6	0.5	1550	<0.65	<1.1	147 *	<0.65	30	37.1
	1.5	1490	<0.68	<1.1	365 *	<0.68	29.4	74.1
	5	1710	<0.68	<1.1	1310	<0.68	29.5	29.7
		4020	<0.73	<1.2	3540	<0.73	50.9	57.9
		2530	<0.75	<1.3	2240	<0.75	36.2	51.3
SMW-7	0.5	1930	<0.66	<1.1	930 *	<0.66	23.8	42.1
	1.5	3590	<0.65	<1.1	2360	<0.65	42	45.3
	5	6330	0.83 *	<1.1	3040	<0.67	66	54.6
		5480	<0.76	<1.3	2220	<0.76	65.5	68.8
SMW-8	0.5	3480	<0.82	<1.4	417 *	<0.82	38.5	68.3
	1.5	2260	<0.69	<1.1	1390	<0.69	25.7	19.3
	5	1270	<0.68	<1.1	398 *	<0.68	15.2	27.3
SMW-9	0.5	3260	<0.72	<1.2	1290	<0.72	45.5	57.7
	2	<268	<0.65	<1.1	204 *	<0.65	19.6	13.1
	5	831 *	<0.68	<1.1	295 *	<0.68	19.2	22.6
SMW-10	0.5	3950	<0.70	<1.2	4330	<0.70	52.4	35.8
	1.5	6220	<0.70	<1.2	4740	<0.70	70.8	85.1
	5	5230	<0.67	<1.1	4060	<0.67	55.5	74.4
		4940	<0.63	<1.1	4170	<0.63	53.1	86.6
DMW-10	0.5	3300	<0.68	<1.1	1830	<0.68	40.3	45.5
	1.5	4600	<0.67	<1.1	3180	<0.67	52.1	75.1
	5	5090	<0.70	<1.2	3140	<0.70	56.7	132

* Detected below Contract Required Detection Limit.

Table 7.5

Concentrations of Contaminants Detected in the Soil

Pesticides/PCBs

Sample Location	Sample Depth (Feet)	Concentration (ug/Kg) 4, 4'- DDT
SB-1	0.5	<18
	2	<18
	5	<19
		<18
SB-2	0.5	<18
	2	<17
	5	<17
		<18
SMW-4	0.5	<20
	2	<19
	5	<22
		<23
SMW-5	0.5	33
	1.5	<19
	5	<23
		<21
SMW-6	0.5	<18
	1.5	<18
	5	<18
		<19
		<17
SMW-7	0.5	<19
	1.5	<18
	5	<21
		<21
SMW-8	0.5	19
	1.5	<18
	5	<20
SMW-9	0.5	<17
	2	<19
	5	<18
SMW-10	0.5	<17
	1.5	<19
	5	<22
		<21
DMW-10	0.5	<18
	1.5	<19
	5	<22

Table 7.6

Concentrations of Contaminants
Detected in the Soil

Total Petroleum Hydrocarbons

Sample Location	Sample Depth (feet)	Concentration (mg/kg)
SB-1	0.5	71
	2	<25
	5	69
		87
SB-2	0.5	240
	2	<25
	5	26
		34
SMW-4	0.5	140
	2	<25
	5	<25
		27
SMW-5	0.5	100
	1.5	220
	5	37
		<25
SMW-6	0.5	30
	1.5	46
	5	48
		3300
		1100
SMW-7	0.5	95
	1.5	480
	5	50
		1000
SMW-8	0.5	65
	1.5	35
	5	31
SMW-9	0.5	2500
	2	<25
	5	26
SMW-10	0.5	<25
	1.5	130
	5	180
		140
DMW-10	0.5	220
	1.5	50
	5	190

Table 7.7
Concentrations of Contaminants Detected in Surface Water and Groundwater
Volatile Organics

Sample Location	Concentration (ug/l)		
	Halogenated Volatile Organics		Aromatic Volatile Organic
	cis/trans-1,2-Dichloroethene (total)	Vinyl Chloride	Toluene
SF-1	<5	<0.3	<0.5
SF-2	<5	<0.3	<0.5
SMW-2	<0.5	<0.3	<0.5
SMW-3	<0.5	<0.3	<0.5
SMW-4	<0.5	<0.3	2.8
DMW-4	<0.5	<0.3	0.7
SMW-5	<0.5	<0.3	<0.5
	<0.5	<0.3	<0.5
DMW-5	<0.5	<0.3	<0.5
SMW-6	<0.5	<0.3	<0.5
	<0.5	<0.3	<0.5
SMW-7	<0.5	<0.3	<0.5
SMW-8	<0.5	<0.3	<0.5
DMW-8	<0.5	<0.3	<0.5
SMW-9	<0.5	<0.3	<0.5
SMW-10	310 (120)	<0.3 (4.1)	<5.0
DMW-10	<5	<0.3	<0.5

< Not detected at indicated value.

Note: Number in parenthesis indicates level detected in second analysis.

Table 7.8

Concentrations of Contaminants Detected in
Surface Water and Groundwater

Semi-Volatile Organics

Sample Location	Concentration (ug/l)	
	Di-n-Butylphthalate	bis(2-Ethylhexyl) Phthalate
SF-1	<10	<10
SF-2	<10	2 *
SMW-2	<10	<10
SMW-3	<10	5 * *
SMW-4	<10	2 * *
DMW-4	18	6 * *
SMW-5	<10	2 * *
	10	4 * *
DMW-5	10	3 * *
SMW-6	<10	8 * *
	<10	9 * *
SMW-7	<10	2 * *
SMW-8	<10	22
DMW-8	2 * *	6 * *
SMW-9	<10	2 * *
SMW-10	<10 (<10)	<10 (<10)
DMW-10	4 * *	14 * *

* Detected below Contract Required Detection Limit (CRDL); also detected in laboratory blank.
* * Detected below CRDL.

Note: Number in parenthesis indicates level detected in second analysis.

Table 7.9

Concentrations of Contaminants Detected in Surface Water and Groundwater
Heavy Metals
(Sheet 1 of 3)

Sample Location	Concentration (ug/l)							
	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Calcium	Chromium
SF-1	3160	<22.0	<3.0	40.6 *	2.3 *	4.7 *	77500	7.5 *
SF-2	1910	<22.0	<3.0	48.9 *	<1.0	<4.0	76400	<5.0
SMW-2	2070	<22.0	<30.0	65.9 *	<1.0	<4.0	708000	<5.0
SMW-3	196000	71.5	109	1870	13.7	<4.0	566000	325
SMW-4	2000	<22.0	<30.0	36.2 *	<1.0	<4.0	676000	<5.0
DMW-4	494	<22.0	<30.0	99.5 *	<1.0	<4.0	385000	<5.0
SMW-5	10600	26.8 *	<30.0	77.6 *	<1.0	<4.0	1050000	<5.0
	494	<22.0	<30.0	92.8 *	<1.0	<4.0	375000	<5.0
DMW-5	728	<22.0	<30.0	92.8 *	<1.0	<4.0	374000	<5.0
SMW-6	5050	<22.0	<30.0	70.7 *	<1.0	<4.0	680000	<5.0
	4390	<22.0	<30.0	63.7 *	<1.0	<4.0	680000	<5.0
SMW-7	1850	<22.0	6.8 *	68.2 *	<1.0	<4.0	108000	<5.0
SMW-8	1230	<22.0	<3.0	41.1 *	<1.0	<4.0	256000	<5.0
DMW-8	378	<22.0	<30.0	38.2 *	<1.0	<4.0	74300	<5.0
SMW-9	1420	<22.0	<30.0	66.9 *	<1.0	<4.0	152000	<5.0
SMW-10	1200	<22.0	<30.0	57.5 *	<1.0	<4.0	244000	<5.0
DMW-10	8020	<22.0	<30.0	82.7 *	<1.0	<4.0	347000	5.8 *

* Detected below Contract Required Detection Limit

Table 7.9

Concentrations of Contaminants Detected in Surface Water and Groundwater
Heavy Metals
(Sheet 2 of 3)

Sample Location	Concentration (ug/l)							
	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Mercury	Nickel
SF-1	<5.0	15.8 *	3580	6.8	43400	71.8	<0.20	<7.0
SF-2	<5.0	22.4 *	2730	9.9	21800	58.7	<0.20	<7.0
SMW-2	56	22.8 *	52400	<20.0	795000	19200	<0.20	37.6 *
SMW-3	94.5	234	304000	84	566000	2750	0.53	103
SMW-4	<5.0	8.7 *	2710	<20.0	669000	2070	<0.20	<7.0
DMW-4	<5.0	7.3 *	1040	<40.0	869000	465	<0.20	<7.0
SMW-5	<5.0	15.5 *	11900	<20.0	2700000	2980	<0.20	<7.0
	<5.0	13.0 *	2200	<20.0	1230000	493	<0.20	<7.0
DMW-5	<5.0	8.3 *	2610	42.4 *	1180000	479	<0.20	<7.0
SMW-6	<5.0	11.5 *	10100	<20.0	1700000	2130	<0.20	<7.0
	<5.0	12.4 *	8400	<20.0	1600000	2110	<0.20	<7.0
SMW-7	<5.0	6.6 *	3240	<20.0	468000	156	<0.20	<7.0
SMW-8	<5.0	12.4 *	1950	<2.0	127000	204	<0.20	7.4 *
DMW-8	<5.0	11.3 *	519	<20.0	169000	178	<0.20	<7.0
SMW-9	<5.0	13.2 *	2440	<2.0	118000	93.4	<0.20	<7.0
SMW-10	<5.0	12.8 *	11500	<20.0	711000	1790	<0.20	<7.0
DMW-10	6.8 *	15.8 *	10400	<20.0	1280000	804	<0.20	<7.0

* Detected below Contract Required Detection Limit

Table 7.9

Concentrations of Contaminants Detected in Surface Water and Groundwater
Heavy Metals
(Sheet 3 of 3)

Sample Location	Concentration (ug/l)						
	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc
SF-1	10500	<3.0	<5.0	225000	<15.0	11.5 *	172
SF-2	11900	<3.0	<5.0	126000	<3.0	10.1 *	53.9
SMW-2	182000	<30.0	<5.0	6260000	<60.0	16.1 *	138
SMW-3	174000	<30.0	<5.0	3830000	<60.0	705	621
SMW-4	216000	<30.0	<5.0	6320000	<30.0	6.0 *	71.5
DMW-4	307000	<30.0	<5.0	10100000	<60.0	<4.0	59.3
SMW-5	487000	<60.0	<5.0	17100000	<60.0	33.7 *	51.5
	319000	<30.0	<5.0	9540000	<30.0	<4.0	338
DMW-5	314000	<30.0	<5.0	9630000	<60.0	<4.0	338
SMW-6	392000	<30.0	<5.0	13500000	<30.0	22.7 *	127
	392000	<30.0	<5.0	13400000	<60.0	16.8 *	44.2
SMW-7	23500	<3.0	<5.0	338000	<30.0	5.8 *	29.7
SMW-8	70600	<3.0	<5.0	1210000	<15.0	<4.0	143
DMW-8	92300	<30.0	<5.0	2270000	<30.0	<4.0	154
SMW-9	68800	<30.0	<5.0	1120000	<3.0	6.5 *	25.8
SMW-10	203000	<30.0	<5.0	6900000	<60.0	4.6 *	27.9
DMW-10	398000	<30.0	<5.0	12000000	<60.0	28.5 *	432

* Detected below Contract Required Detection Limit

Table 7.10

Concentrations of Contaminants Detected in Surface Water and Groundwater

Cyanide

Sample Location	Concentration (mg/l)
SF-1	<0.050
SF-2	<0.010
SMW-2	0.016
SMW-3	<0.010
SMW-4	<0.010
DMW-4	<0.010
SMW-5	<0.01
DMW-5	<0.01
	<0.01
SMW-6	<0.01
	<0.01
SMW-7	<0.010
SMW-8	<0.010
DMW-8	<0.010
SMW-9	<0.010
SMW-10	<0.010
DMW-10	<0.010

Table 7.11
Concentrations of General Minerals in Surface Water and Groundwater

Sample Location	Concentration (mg/l)							
	Chloride	Sulfate	Hardness (CaCO3)	Methylene Blue Active Substances	Total Dissolved Solids	Alkalinity (Total)	Electroconductivity *	Nitrate-N
SF-1	400	240	380	0.028	1100	61	1800	<0.04
SF-2	21000	2400	9600	0.11	39000	420	46000	<0.04
SMW-2	9800	4300	7500	0.29	24000	370	28000	0.34
SMW-3	7100	2400	3700	0.14	13000	160	20000	0.14
SMW-4	9500	4700	4400	0.10	23000	590	29000	<0.04
DMW-4	16000	2700	4500	0.22	31000	220	40000	<0.04
SMW-5	30000	7500	2700	<0.025	61000	180	62000	<0.04
	17000	3100	6000	0.12	29000	230	39000	<0.04
DMW-5	16000	3200	5800	0.15	33000	230	35000	<0.04
SMW-6	23000	4800	8700	<0.025	44000	390	50000	<0.04
	23000	4700	8300	0.074	46000	400	52000	<0.04
SMW-7	410	46	460	0.026	1500	240	2400	<0.04
SMW-8	1400	1800	2800	0.040	4700	280	6400	<0.04
DMW-8	3200	790	190	0.097	6700	230	10000	<0.04
SMW-9	1800	490	870	0.077	4100	270	6000	<0.04
SMW-10	12000	1900	3500	0.062	23000	790	28000	<0.04
DMW-10	290	110	300	0.038	750	110	1100	<0.04

* Measured in umhos/cm

NAVY EXCHANGE GAS STATION

Analytical Results

Sample Location	Sample Type	Depth of Soil Sample (feet)	Unit	Concentration									
				Benzene	Toluene	Xylene (Total)*	Ethylbenzene	Total Petroleum Hydrocarbons (Diesel)	Total Petroleum Hydrocarbons (Gasoline)	Organic Lead	Stoddard Solvent	Ethylene Glycol	Ethylene Dibromide
MW-1	Soil	10	mg/kg	<0.05	<0.05	ND	<0.05	<10	2.1	<1.25	<10	<10	NA
	Groundwater		ug/l	<0.5	<0.5	ND	<0.5	<50	<50	<1,000	<50	<10,000	<0.020
MW-2	Soil	14	mg/kg	0.37	0.30	0.10	0.14	<10	2.8	<1.25	<10	<10	NA
	Groundwater		ug/l	18,000	19,000	13,000	4,000	<500	85,000	<1,000	26,000	<10,000	24.0
MW-3	Soil	13	mg/kg	<0.5	1.6	11	2.5	<10	100	<1.25	20	<10	NA
	Groundwater		ug/l	44	7.8	96	<2.5	<50	470	<1,000	170	<10,000	<0.020
MW-4	Soil	6	mg/kg	0.07	0.11	0.12	<0.05	<10	3.1	<1.25	<10	<10	NA
	Soil	10	mg/kg	5.5	100	230	40	<10	1,600	<1.25	<10	<10	NA
	Groundwater		ug/l	30,000	38,000	16,000	1,800	<30,000,000	160,000	<1,000	320,000,000	<10,000	0.074

* Total of para-, meta-, and ortho-xylene

ND = Not detected; detection limits for para-, meta-, and ortho-xylene are 0.05 mg/kg for soil and 0.5 ug/l for water

NA = Not analyzed