APPENDIX D

Hazardous Materials Reports

Clark, Jodie

From: Fukuda, Napp
Sent: Friday, April 01, 2011 12:45 PM
To: Clark, Jodie
Cc: Zientek, Jo; Klein, Nanci
Subject: Nine Par - ZWED
Attachments: Nine Par Site Investigation Report final _Sep-07_.pdf; Field_map_lfg_temp_probes_25Mar201.pdf; Landfillgasfieldsheet.pdf; Water Quality Results 1Q 11.pdf

Jodie,
Attached is a historic site investigation report for the subject site conducted by SCS Engineers, an environmental engineering consultant. The report was initiated by the City, as the landowner, in 2007 with the intent to preliminarily characterize the site and evaluate the feasibility of future development. The investigation included a limited evaluation of soil, groundwater, and landfill gas conditions and compared against current regulatory prescriptive requirements. In general, the investigation "found very few technical constraints or extraordinary conditions that would inhibit future site redevelopment for passive, commercial, or other uses." Furthermore, "From an engineering standpoint, the Nine Par Site can be developed for passive, recreational, light industrial or commercial use..."

Although the aforementioned investigation did not identify significant issues with the site, the data was limited and not based on any specific development proposal. Therefore, with the currently proposed Anaerobic Digestion project, additional study was initiated by the project proponent, Zero Waste Energy Development Company (ZWED). Attached is the preliminary data from the recent and continuing "Phase II" investigation of the subject development site conducted by ZWED's environmental consultant, Golder Associates. This study includes a more thorough investigation of the existing groundwater and landfill gas conditions to further characterize the site and will be used to develop appropriate and/or regulatory required mitigation measures for the proposed development.

The most recent investigation identified significant concentrations of solvents in groundwater. However, the detected concentration appears to be localized in one relatively small area on the northwestern most portion of the project site, indicating it is not a site wide concern. A recent meeting with the Regional Water Quality Control Board occurred on March 24th to present the initial findings; the RWQCB, although concerned with the level of the detected solvent concentration, did not believe that the isolated condition should hinder the proposed development. Soil containing naturally occurring asbestos was noted in the report in a defined area of the site. The soil was buried in the known location under EPA oversight in 2003 and is not proposed to be disturbed. Landfill gas surveys to date have not identified any significant site-wide concentrations.

Based on the presently known environmental conditions of the site, there does not appear to be significant constraints that would preclude the development of the project on the Nine Par site. The currently identified environmental conditions can be mitigated either independently of or as part of the development project with standard engineering controls. Therefore, ESD is acceptable to the submitted documents as the basis for approval and recommends the following mitigation measures be included in the Initial Study: Continue the investigation of the solvent in groundwater with the RWQCB oversight; and, ongoing environmental investigation and engineering design of the project should continue to be coordinated with and approved by the RWQCB, CalRecycles, and the LEA as required by regulation (CCR Title 27).

If you have any further questions, please feel free to contact me.

Napp Fukuda
sustainability & compliance manager
city of san jose | environmental services department
200 east santa clara street | san jose | ca | 95113
(408) 975-2594

Proposed Location	POINT_X	POINT_Y
TP-1	-121.9477	37.436233
TP-2	-121.947333	37.43555
TP-3	-121.948316	37.435267
TP-4	-121.95005	37.436133
TP-5	-121.95135	37.436033
TP-6	-121.95264	37.436044
TP-7	-121.9498	37.43455
TP-8	-121.950771	37.434029

LEGEND

▲ Proposed temporary landfill gas probe location

68.8% = Percent methane by volume

NA = Methane not measured because no unsaturated refuse was present

REFERENCES

Spatial Reference:
NAD 1983 StatePlane California III FIPS 0403 Feet
Background image: Service Name: NAIP/California_2010_1m_NC
Server: http://gis.apfo.usda.gov/arcgis/services

DRAFT

N

0 100 200
Feet

PROJECT

NINE PAR PROPERTY
SAN JOSE, CALIFORNIA

TITLE

PROPOSED TEMPORARY LANDFILL GAS SAMPLE LOCATIONS

Golder Associates

PROJECT No.		10397163	FILE No.	
DESIGN	DLM	3/9/2011	SCALE: AS SHOWN	REV. 0
GIS	DLM	3/9/2011		
CHECK	TV	3/23/2011	FIG.	
REVIEW	TV	3/23/2011		

G:\GIS\Sites\NinePar\pdf\

TABLE Y

LANDFILL GAS MONITORING DATA SHEET

Sampling Point	Sample Date	Sample Time	Purge Time (min)	Purge Time (L/min)	Methane Concentration (% CH_4)	Carbon Dioxide (%)	Oxygen (%)	Hydrogen Sulfide (ppm)	Carbon Monoxide (ppm)	VOCs (PID) (ppm)	Comments
TP-1	3/28	NA	--	--	--	--	--	--	--	--	Not sampled, refuse saturated to cover at 12.5 ft. bgs
TP-2	3/28	16:15	9	0.3	0.5	0.7	19.1	0	19	0.0	Probe at 14 to 15 feet bgs, Summa canister #765
TP-3	3/28	13:40	8	0.3	79.7	21.1	0.0	5	0	0.0	Probe at 12 to 13 feet bgs, Summa canister #789
TP-4	3/29	NA	--	--	--	--	--	--	--	--	Not sampled, refuse saturated to cover at 13.9 ft. bgs
TP-5	3/29	9:30	10	0.3	15.8	13.8	2.9	0	29	1.3	Probe at 9 to 10 feet bgs, Summa canister #804
TP-6	3/29	10:30	7	0.3	10.3	11.8	2.4	0	24	0.0	Probe at 9 to 10 feet bgs, Summa canister #484
TP-7	3/29	12:00	6	0.3	2.0	1.1	18.4	0	11	0.1	Probe at 14.2 to 15 feet bgs, Summa canister #812
TP-8	3/29	NA	--	--	--	--	--	--	--	--	Not sampled, refuse saturated to cover at 11.0 ft. bgs
TP-9	3/29	NA	--	--	--	--	--	--	--	--	Not sampled, refuse saturated to cover at 12.5 ft. bgs
LW-2	3/29	16:30	8	0.3	0.5	0.7	19.3	0	1	0.0	Summa canister #614
LW-3	3/29	16:15	8	0.3	68.8	18.8	0.0	0	7	0.0	Summa canister #791

Notes:

NA = not applicable.

% CH_4 = percent methane by volume

ppm = parts per million by volume

PID = photoionization detector with a 10.6 eV lamp.

GEM 2000 and MiniRAE 2000 instruments calibrated by Ashtead Technology on March 25, 2011

Table X

Water Quality Analytical Results
Nine Par Landfill Preliminary Site Investigation

Sample description		ESL (1) (GW-NDW)	EB-1	EB-2	EB-3	EB-4	EB-5	EB-6s	EB-6d	EB-7
Sample date	units	Table F-1b	02/23/11	02/24/11	02/24/11	02/25/11	02/28/11	02/28/11	02/28/11	03/29/11
Volatile Organic Compounds (2)										
Benzene	ug/L	46	<0.083	<0.83	<0.083	<0.083	<0.083	0.15 (J)	<0.083	
n-Butylbenzene	ug/L	NE (4)	<0.11	<1.1	<0.11	<0.11	<0.11	<0.11	<0.11	
sec-Butylbenzene	ug/L	NE	<0.15	<1.5	<0.15	<0.15	<0.15	<0.15	<0.15	
Chlorobenzene	ug/L	25	<0.093	<0.93	<0.093	<0.093	<0.093	<0.093	<0.093	
1,2-Dichlorobenzene	ug/L	14	<0.072	<0.72	<0.072	<0.072	<0.072	<0.072	<0.072	
1,3-Dichlorobenzene	ug/L	65	<0.15	<1.5	<0.15	<0.15	<0.15	<0.15	<0.15	
1,4-Dichlorobenzene	ug/L	15	<0.062	<0.62	<0.062	<0.062	<0.062	<0.062	<0.062	
1,1-Dichloroethane	ug/L	47	<0.11	**5.6**	<0.11	<0.11	<0.11	<0.11	<0.11	
1,1-Dichloroethene	ug/L	25	<0.18	**180**	<0.18	<0.18	<0.18	<0.18	<0.18	
cis -1,2-Dichloroethene	ug/L	590	<0.085	**880**	<0.085	<0.085	<0.085	**0.16 (J)**	<0.085	
trans -1,2-Dichloroethene	ug/L	590	<0.15	**8.0**	<0.15	<0.15	<0.15	<0.15	<0.15	
Ethylbenzene	ug/L	43	<0.098	<0.98	<0.098	<0.098	<0.098	<0.098	<0.098	
Isopropylbenzene	ug/L	NE	<0.14	<1.4	<0.14	<0.14	<0.14	<0.14	<0.14	
p-Isopropyltoluene	ug/L	NE	<0.12	<1.2	<0.12	<0.12	<0.12	<0.12	<0.12	
Methyl *tert* -butyl ether	ug/L	1800	<0.11	<1.1	<0.11	**0.71**	<0.11	<0.11	<0.11	
Naphthalene	ug/L	24	<0.36	<3.6	<0.36	<0.36	<0.36	<0.36	<0.36	
n-Propylbenzene	ug/L	NE	<0.11	<1.1	<0.11	<0.11	<0.11	<0.11	<0.11	
Styrene	ug/L	10	<0.068	<0.68	<0.068	<0.068	<0.068	<0.068	<0.068	
Toluene	ug/L	130	**0.13 (J)**	<0.93	<0.093	<0.093	<0.093	**0.14 (J)**	<0.093	
Trichloroethene	ug/L	360	<0.085	**8900**	<0.085	<0.085	<0.085	<0.085	<0.085	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ug/L	NE	<0.15	**94**	<0.15	<0.15	<0.15	<0.15	<0.15	
1,2,4-Trimethylbenzene	ug/L	NE	<0.12	<1.2	<0.12	<0.12	<0.12	<0.12	<0.12	
1,3,5-Trimethylbenzene	ug/L	NE	<0.12	<1.2	<0.12	<0.12	<0.12	<0.12	<0.12	
Vinyl Chloride	ug/L	782	<0.12	**210**	<0.12	<0.12	<0.12	<0.12	<0.12	
Total Xylenes	ug/L	100	<0.36	<3.6	<0.36	<0.36	<0.36	<0.36	<0.36	
t-Butyl alcohol	ug/L	18000	<9.4	<94	<9.4	<9.4	<9.4	<9.4	<9.4	
Total Petroleum Hydrocarbons (2)										
TPPH by EPA 8260 (C4-C12)	µg/L	210	<7.2	**12000** (3)	<7.2	<7.2	<7.2	<7.2	<7.2	
TPH (C8 to C44 plus) by EPA 8015CC	µg/L	210	<5.0	<5.6	<5.0	<5.0	diesel or fuel	C-15 to C-32	<5.6	
TPH (Total) by EPA 8015CC	µg/L	210	<100	<110	<100	<100	**300**	**710**	<110	
Semi-volatile Organic Compounds [EPA method 8270C]										
bis (2-ethylhexyl)phthalate	ug/L	32	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	
2-Methylnaphthalene	ug/L	2.1	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	
Naphthalene	ug/L	24	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	
1,4-Dioxane	ug/L	50000	NA	NA	NA	NA	NA	NA	NA	
All other compounds	ug/L	varies	ND (5)	ND	ND	ND	ND	ND	ND	
Organochlorine Pesticides [EPA method 8081]										
All compounds	ug/L	varies	ND	ND	ND	ND	ND	ND	ND	
Polychlorinated Biphenyls [EPA method 8082]										
All compounds	ug/L	varies	ND	ND	ND	ND	ND	ND	ND	
Chlorinated Herbicides [EPA method 8151]										
Dicamba	ug/l	NE	<0.037	**0.26**	<0.037	<0.037	<0.037	<0.037	<0.037	
All other compounds	ug/L	varies	ND	ND	ND	ND	ND	ND	ND	

Table X

Water Quality Analytical Results
Nine Par Landfill Preliminary Site Investigation

Sample description		ESL (1) (GW-NDW)	EB-1	EB-2	EB-3	EB-4	EB-5	EB-6s	EB-6d	EB-7
Sample date	units	Table F-1b	02/23/11	02/24/11	02/24/11	02/25/11	02/28/11	02/28/11	02/28/11	03/29/11
General Chemistry [various EPA methods]										
Dissolved/Total Calcium	mg/L	NE	530	160	410	18	14	42	110	
Dissolved/Total Magnesium	mg/L	NE	1200	450	990	48	37	95	400	
Dissolved/Total Sodium	mg/L	NE	9100	6400	8500	1200	1500	1000	4100	
Dissolved/Total Potassium	mg/L	NE	95	62	250	13	9.6	170	140	
Bicarbonate Alkalinity as CaCO3	mg/L	NE	770	1400	730	1200	1300	1500	1500	
Carbonate Alkalinity as CaCO3	mg/L	NE	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	<8.2	
Chloride	mg/L	NE	18000	11000	16000	1100	1700	1400	6800	
Fluoride	mg/L	NE	1.2 (J)	1.7 (J)	2.2 (J)	1.7	1.8	0.31	1.3	
Nitrate/Nitrite as N	mg/L	NE	<0.010	<0.010	<0.010	0.23	0.016 (J)	0.090 (J)	<0.010	
Nitrate as N	mg/L	NE	<0.70	<0.70	<0.70	<0.070	<0.070	<0.070	<0.28	
Sulfate	mg/L	NE	2200	1100	2700	140	53	94	1100	
Total Dissolved Solids	mg/L	NE	32000	22000	31000	3400	4400	3700	14000	
Total Cyanide	mg/L	1.0	0.0045 (J)	0.0039 (J)	0.0025 (J)	0.0065	0.012	0.011	0.0041 (J)	
Nitrite as N	mg/L	NE	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081	<0.0081	
Total Sulfide	mg/L	NE	<5.0	<0.050	<10	<0.050	<1.0	<0.050	<0.050	
Total Organic Carbon	mg/L	NE	3.8	23	4.9	17	36	70	19	
Dissolved Metals [USEPA 6010B, 6020, and 7470A]										
Antimony	µg/L	30	<100	<100	<100	<20	<50	<20	<50	
Arsenic	µg/L	36	<75	<75	<75	<15	<38	**76 (J)**	<38	
Barium	µg/L	1000	**44 (J)**	**53 (J)**	**93 (J)**	**55**	**120**	**880**	**150**	
Beryllium	µg/L	0.53	<10	<10	<10	<2.0	<5.0	<2.0	<5.0	
Cadmium	µg/L	0.25	<10	<10	<10	<2.0	<5.0	<2.0	<5.0	
Chromium	µg/L	180	<10	<10	<10	<2.0	<5.0	**7.1 (J)**	<5.0	
Cobalt	µg/L	3.0	<50	<50	<50	**23 (J)**	<25	**10 (J)**	**25 (J)**	
Copper	µg/L	3.1	<23	<23	<23	**6.4 (J)**	<12	<4.6	<12	
Lead	µg/L	2.5	**71 (J)**	<50	<50	<10	<25	<10	<25	
Mercury	µg/L	0.025	**0.10 (J)**	**0.048 (J)**	**0.080 (J)**	**0.085 (J)**	**0.045 (J)**	**0.035 (J)**	**0.040 (J)**	
Molybdenum	µg/L	240	**65 (J)**	**84 (J)**	**82 (J)**	**210**	**110 (J)**	**34 (J)**	**70 (J)**	
Nickel	µg/L	8.2	**12 (J)**	**57 (J)**	<12	**67**	**29 (J)**	**17 (J)**	**47 (J)**	
Selenium	µg/L	5.0	<110	<110	<110	<22	<55	<22	<55	
Silver	µg/L	0.19	**19 (J)**	<11	**20 (J)**	<2.2	<5.5	<2.2	**13 (J)**	
Thallium	µg/L	4.0	<150	<150	<150	<30	<75	<30	<75	
Vanadium	µg/L	19	<10	<10	<10	**4.5 (J)**	**6.0 (J)**	**5.7 (J)**	<5.0	
Zinc	µg/L	81	<59	<59	<59	<12	<30	<12	<30	
Field Parameters (5)										
Dissolved oxygen	mg/L	--	10.0	7.7	2.4	4.9	4.4	3.3	4.6	2.0
Electrical conductivity	umhos/cm	--	30,990	24,140	32,707	4,248	5,471	5,766	17,058	28,819
pH	SU	--	7.45	7.51	7.44	8.18	8.01	7.48	7.60	7.31
Oxidation/Reduction Potential	mV	--	--	--	--	--	--	--	--	47
Temperature	degrees C	--	13.9	18.2	19.9	17.5	19.1	21.0	22.0	20.0

(1) ESLs are Environmental Screening Levels from SF Bay RWQCB Interim Final - May 2008 for groundwater that is not a potential drinking water source; Tables F-1b and F-4a except vinyl chloride which is the aquatic habitat goal.
(2) Analysis by EPA Method 8260B. Only compounds detected in one or more wells are listed. All other compounds were not detected at or above the method detection limit.
(3) Total Purgeable Petroleum Hydrocarbon in the EB-2 sample is composed of chlorinated solvents detected in the sample. It is not gasoline.
(4) NE - Not established; compound does not have an established Environmental Screening Level
(5) ND - Not detected at or above the method detection limit.
(5) Field parameters measured before sample was collected.
(J) Trace concentration; value is an estimate.

Table X

Water Quality Analytical Results
Nine Par Landfill Preliminary Site Investigation

Sample description		ESL (1)	LW-1	LW-2	LW-3	ZMP	Zanker Road Landfill	
		(GW-NDW)				G-6R	G-6R	G-7
Sample date	units	Table F-1b				09/10/09	09/30/10	07/13/10
Volatile Organic Compounds (2)								
Benzene	ug/L	46	**4.4**	**0.68**	**3.2**	<0.50	<0.50	<0.50
n-Butylbenzene	ug/L	NE (4)	**0.76**	<0.11	**0.66**	<0.50	<0.50	<0.50
sec-Butylbenzene	ug/L	NE	**0.26 (J)**	**0.30 (J)**	**0.78**	<0.50	<0.50	<0.50
Chlorobenzene	ug/L	25	**6.0**	**12**	**3.3**	<0.50	<0.50	<0.50
1,2-Dichlorobenzene	ug/L	14	**0.12 (J)**	**0.21 (J)**	<0.072	<0.50	<0.50	<0.50
1,3-Dichlorobenzene	ug/L	65	<0.15	**0.20 (J)**	<0.15	<0.50	<0.50	<0.50
1,4-Dichlorobenzene	ug/L	15	**1.6**	**4.3**	**4.0**	<0.50	<0.50	<0.50
1,1-Dichloroethane	ug/L	47	<0.11	<0.11	<0.11	<0.50	<0.50	<0.50
1,1-Dichloroethene	ug/L	25	<0.18	<0.18	<0.18	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	ug/L	590	**0.30 (J)**	<0.085	**0.22 (J)**	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	ug/L	590	<0.15	<0.15	<0.15	<0.50	<0.50	<0.50
Ethylbenzene	ug/L	43	**5.2**	**0.49 (J)**	**1.5**	<0.50	<0.50	<0.50
Isopropylbenzene	ug/L	NE	**2.9**	**0.75**	**2.8**	<0.50	<0.50	<0.50
p-Isopropyltoluene	ug/L	NE	**47**	**0.18 (J)**	**0.75**	<0.50	<0.50	<0.50
Methyl *tert*-butyl ether	ug/L	1800	<0.11	**0.20 (J)**	<0.11	<0.50	<0.50	<0.50
Naphthalene	ug/L	24	**7.4**	**4.8**	**10**	<0.50	<0.50	<0.50
n-Propylbenzene	ug/L	NE	**0.74**	**1.6**	**3.1**	<0.50	<0.50	<0.50
Styrene	ug/L	10	<0.068	<0.068	**0.11 (J)**	<0.50	<0.50	<0.50
Toluene	ug/L	130	**2.1**	**0.26 (J)**	**0.44**	<0.50	<0.50	<0.50
Trichloroethene	ug/L	360	<0.085	<0.085	<0.085	<0.50	<0.50	<0.50
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ug/L	NE	**0.17 (J)**	**0.31 (J)**	<0.15	NA	NA	NA
1,2,4-Trimethylbenzene	ug/L	NE	**3.7**	**3.0**	**1.7**	<0.50	<0.50	<0.50
1,3,5-Trimethylbenzene	ug/L	NE	**0.95**	**1.0**	<0.12	<0.50	<0.50	<0.50
Vinyl Chloride	ug/L	782	<0.12	<0.12	**0.35 (J)**	<0.50	<0.50	<0.50
Total Xylenes	ug/L	100	**24**	**1.6**	**2.6**	<1.0	<1.0	<1.0
t-Butyl alcohol	ug/L	18000	**56**	<9.4	**61**	NA	NA	NA
			162.75	29.73	95.83			
Total Petroleum Hydrocarbons (2)								
TPPH by EPA 8260 (C4-C12)	µg/L	210	270	170	120	NA	NA	NA
TPH (C8 to C44 plus) by EPA 8015CC	µg/L	210	C-10 to C-36	C-10 to C-36	C-12 to C-36	NA	NA	NA
TPH (Total) by EPA 8015CC	µg/L	210	**3500**	**2400**	**1900**	NA	NA	NA
Semi-volatile Organic Compounds [EPA method 8270C]								
bis(2-ethylhexyl)phthalate	ug/L	32	**3.0 (J)**	**3.3 (J)**	**6.1**	<5.0	<50	<5.0
2-Methylnaphthalene	ug/L	2.1	<0.28	**1.9 (J)**	**4.2**	<2.0	<20	<2.0
Naphthalene	ug/L	24	**5.0**	**3.7**	**8.9**	<2.0	<20	<2.0
1,4-Dioxane	ug/L	50000	**33**	**8.5**	**55**	NA	19.0	7.6
All other compounds	ug/L	varies	ND	ND	ND	ND	ND	ND
Organochlorine Pesticides [EPA method 8081]								
All compounds	ug/L	varies	ND	ND	ND	ND	ND	ND
Polychlorinated Biphenyls [EPA method 8082]								
All compounds	ug/L	varies	ND	ND	ND	ND	ND	ND
Chlorinated Herbicides [EPA method 8151]								
Dicamba	ug/l	NE	<0.045	<0.037	<0.037	<0.080	<0.080	<0.080
All other compounds	ug/L	varies	ND	ND	ND	ND	ND	ND
							2.0 (2,4,5-T)	

Table X

Water Quality Analytical Results
Nine Par Landfill Preliminary Site Investigation

Sample description		ESL (1)	LW-1	LW-2	LW-3	ZMP	Zanker Road Landfill	
		(GW-NDW)				G-6R	G-6R	G-7
Sample date	units	Table F-1b				09/10/09	09/30/10	07/13/10
General Chemistry [various EPA methods]								
Dissolved/Total Calcium	mg/L	NE	23	51	12	NA	NA	NA
Dissolved/Total Magnesium	mg/L	NE	35	93	74	NA	NA	NA
Dissolved/Total Sodium	mg/L	NE	1900	1300	2000	NA	NA	NA
Dissolved/Total Potassium	mg/L	NE	430	250	460	NA	NA	NA
Bicarbonate Alkalinity as CaCO3	mg/L	NE	3300	1800	2700	NA	NA	NA
Carbonate Alkalinity as CaCO3	mg/L	NE	<8.2	<8.2	<8.2	NA	NA	NA
Chloride	mg/L	NE	1400	1600	2500	NA	NA	NA
Fluoride	mg/L	NE	0.54	0.28	<0.12	NA	NA	NA
Nitrate/Nitrite as N	mg/L	NE				3.2	<0.10	<0.10
Nitrate as N	mg/L	NE	<0.070	<0.070	<0.14	NA	NA	NA
Sulfate	mg/L	NE	3.0 (J)	10	14	NA	NA	NA
Total Dissolved Solids	mg/L	NE	5800	4200	6200	3000	19000	24000
Total Cyanide	mg/L	1.0	0.061	0.017	0.016	<0.0050	0.017	<0.0050
Nitrite as N	mg/L	NE	<0.0081	0.0099 (J)	<0.0081	NA	NA	NA
Total Sulfide	mg/L	NE	<1.0	0.12	<0.50	<0.10	<0.050	<0.10
Total Organic Carbon	mg/L	NE	260	100	250	NA	180	5.9
Dissolved Metals [USEPA 6010B, 6020, and 7470A]								
Antimony	µg/L	30	<65	<65	<65	<2.0	<20	<20
Arsenic	µg/L	36	**100 (J)**	<49	<49	NA	**63**	**36**
Barium	µg/L	1000	**1200**	**860**	**490**	**58**	**750**	**81**
Beryllium	µg/L	0.53	<5.0	<5.0	<5.0	<1.0	<10	<20
Cadmium	µg/L	0.25	**7.0 (J)**	<5.0	<5.0	NA	<10	<10
Chromium	µg/L	180	**210**	**8.3 (J)**	**76**	<3.0	**35**	**<30**
Cobalt	µg/L	3.0	**42 (J)**	<25	**46 (J)**	NA	**57**	**10**
Copper	µg/L	3.1	**870**	<12	**40 (J)**	**NA**	<20	<20
Lead	µg/L	2.5	**2000**	<25	**86 (J)**	NA	<10	<10
Mercury	µg/L	0.025	**1.8**	**0.14 (J)**	**0.29**	NA	0.025(J)	<0.016
Molybdenum	µg/L	240	**80 (J)**	<25	**30 (J)**	NA	NA	NA
Nickel	µg/L	8.2	**210**	**21 (J)**	**82**	**NA**	**74**	**38**
Selenium	µg/L	5.0	<75	<75	**<75**	**9.5**	**110**	**130**
Silver	µg/L	0.19	**9.5 (J)**	<5.0	<5.0	<1.0	<10	<10
Thallium	µg/L	4.0	<85	<85	<85	<1.0	<10	<10
Vanadium	µg/L	19	**45 (J)**	<8.0	**18 (J)**	**NA**	**33**	**<18**
Zinc	µg/L	81	**3300**	**160 (J)**	**260**	NA	<50	<50
Field Parameters (5)								
Dissolved oxygen	mg/L	--	5.5	2.8	7.25	NA	0.41	1.51
Electrical conductivity	umhos/cm	--	9,995	7,015	10,359	7,644	26,974	29,427
pH	SU	--	8.74	7.70	8.38	7.93	7.42	7.15
Oxidation/Reduction Potential	mV	--	72	-2.9	57	-35	NA	NA
Temperature	degrees C	--	25.3	21.0	20.9	19.3	21.9	21.1

(1) ESLs are Environmental Screening Levels from SF Bay RWQCB Interim Final - May 2008 !
(2) Analysis by EPA Method 8260B. Only compounds detected in one or more wells are listed
(3) Total Purgeable Petroleum Hydrocarbon in the EB-2 sample is composed of chlorinated so
(4) NE - Not established; compound does not have an established Environmental Screening
(5) ND - Not detected at or above the method detection limit.
(5) Field parameters measured before sample was collected.
(J) Trace concentration; value is an estimate.