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NMED Hazardous Waste Bureau

National Nuclear Security Administration
Los Alamos Site Office, MS A316
Environmental Restoration Program
Los Alamos, New Mexico 87544
(505) 667-4255/FAX (505) 606-2132

Date: February 27, 2009
Refer To: EP2009-0123

James P. Bearzi, Bureau Chief
Hazardous Waste Bureau
New Mexico Environment Department
2905 Rodeo Park Drive East, Building 1
Santa Fe, NM 87505-6303

Subject: Request to Waive Requirement to Install Additional Alluvial Wells in Cañada del Buey

Dear Mr. Bearzi:

This letter is provided to follow-up and to document the Los Alamos National Laboratory's (the Laboratory's) recommendation to waive the New Mexico Environment Department's (NMED's) requirement to install seven additional alluvial wells in Cañada del Buey (CdB). The technical basis for the Laboratory's request was presented in a meeting with NMED on December 10, 2008, and is presented as an attachment to this letter. The Laboratory proposes additional work herein that will enhance the conceptual model for the hydrology and geochemistry in CdB. The updated conceptual model that will likely derive from these new data will be presented in the CdB investigation report, due to NMED on August 31, 2009.

The requirement to install the seven alluvial wells in CdB comes from NMED's "Notice of Disapproval, Work Plan for Sandia Canyon and Cañada del Buey, Los Alamo National Laboratory." This action was agreed to by the Laboratory in its "Response to the Notice of Disapproval on the Work Plan for Sandia Canyon and Cañada del Buey." Since that time, the Laboratory has obtained and compiled data not previously presented to NMED prior to the December 10, 2008, meeting to substantiate its request to waive the requirement. The technical basis for the request is provided below.

A small, spatially limited saturated zone is observed below Cañada del Buey within Unit 1v-c of the Tshirege Member of the Bandelier Tuff (Qbt 1v–c), which lies stratigraphically below the alluvium at CdBO-6 and CdBO-7 (see cross-section, Attachment 1). This zone does not appear to extend as far to the east as CdBM-1 (see map, Attachment 2), as illustrated by the moisture profile for that borehole (Attachment 3), potentially because Qbt 1v–c pinches out to the east. The figure in Attachment 4 represents neutron-log moisture data from several instrumented boreholes in the vicinity of Material Disposal Area (MDA) H. The curves represent two modes of neutron-log data: an open borehole and a borehole a liner installed. The increases in relative moisture content are approximately aligned with Unit 1v–c at approximately 150-ft depth in boreholes 54-01023 and 54-15462. An increase in moisture content at the base of Unit 1 v–c is observed in core samples

collected across the Laboratory and is thought to be from the fine-grained nature of the rocks in that horizon. However, these data may also indicate a lateral component of transport of pore moisture from either CdB or the Pajarito Canyon Watershed (specifically Threemile Canyon) where Unit 1v–c has also shown indication of increased moisture content. Notably, during recent drilling at R-37, just to the southeast of CdBO-6 and CdBO-7, water was not observed within the Unit 1v–c interval.

Saturated conditions have never been observed in the alluvium in CdB either during drilling or during periodic monitoring of 11 wells located in the canyon (wells CDBO-1 through CDBO-9 and CDBM-1 and CDBM-2, Attachment 2).

In exploring the source of the water found in CdBO-6 and CdBO-7, records from stormwater gage stations in CdB were used to correlate to water-level responses in CdBO-6 and CdBO-7 (Attachment 5). These data show that the water levels in the wells appear to respond to precipitation and runoff events recorded at nearby rain and runoff gages, indicating that stormwater runoff is the predominant source of recharge to these two wells. Other possible sources of recharge water to CdBO-6 and CdBO-7 were evaluated, including PM-4 purge water and potential leaks from the sanitary wastewater treatment plant, but the signature of those waters are not similar (Attachment 6). Analytical results from the alluvial wells are provided in Attachment 7 and indicate few contaminants and at low concentrations. In general, the alluvial groundwater and sediment within CdB have very limited contamination and at low concentrations. The sediment investigation reach CdB-4 (above NM 4) was found to be noncontaminated as presented in the "Evaluation of Possible Sediment Contamination in the White Rock Land Transfer Parcel: Reach CdB-4," prepared in October 2000.

Per the December 10, 2008 meeting with NMED, the following actions will be, or have already been, implemented by the Laboratory to build on the conceptual model for CdB.

- Pressure transducers were added to wells CdBO-4, CdBO-5, CdBO-8 and CdBO-9 in early January 2009 to evaluate whether transient saturation occurs following storm events and if so, whether the saturation is sufficiently long-lived to allow for sampling. In the past, these wells were only manually checked periodically for saturation.

- Nitrogen isotopes will be added to the analytical suite in wells CdBO-6 and CdBO-7. These isotope data may be useful for further understanding potential sources of the groundwater.

- The Laboratory will attempt to purge well CdBO-6 dry during the next sampling event to monitor recovery. This may provide information on the amount of groundwater and/or the recharge rate into the well.

The Laboratory believes that the information presented in this letter and attachments provide the basis for NMED to waive the requirement for installation of the seven additional alluvial wells. The Laboratory fully understands that new information could warrant reconsideration of the need for additional wells or other investigations, especially in light of corrective measures projects at Technical Area 54 MDAs.

If you have any questions, please contact Danny Katzman at (505) 667-6333 (katzman@lanl.gov) or Suzy Schulman at (505) 606-1962 (sschulman@doeal.gov).

Sincerely,

Michael J. Graham, Associate Director
Environmental Programs
Los Alamos National Laboratory

Sincerely,

David R. Gregory, Project Director
Environmental Operations
Los Alamos Site Office

MG/DG/PH/DK:sm

Enclosures: List of attachments (LA-UR-09-1135)
(1) Attachment 1: Geologic cross section of Cañada del Buey near CdBO-6 and CdBO-7
(2) Attachment 2: Map View of Cañada del Buey
(3) Attachment 3: Moisture data for CDBM-1 in Cañada del Buey
(4) Attachment 4: Moisture monitoring results for MDA H boreholes (% by volume)
(5) Attachment 5: CdBO-6 water level data, adjusted CdBO-7 water level data, stream flow data from Gages E218 and E230, and TA-54 precipitation data
(6) Attachment 6: Trilinear diagram showing major ion water chemistry at wells CdBO-6, R-37, R-40 and PM-4, TA-18 Spring, Threemile Spring, and surface-water samples collected near TA-46
(7) Attachment 7: Frequency-of-detection table for CdBO-6

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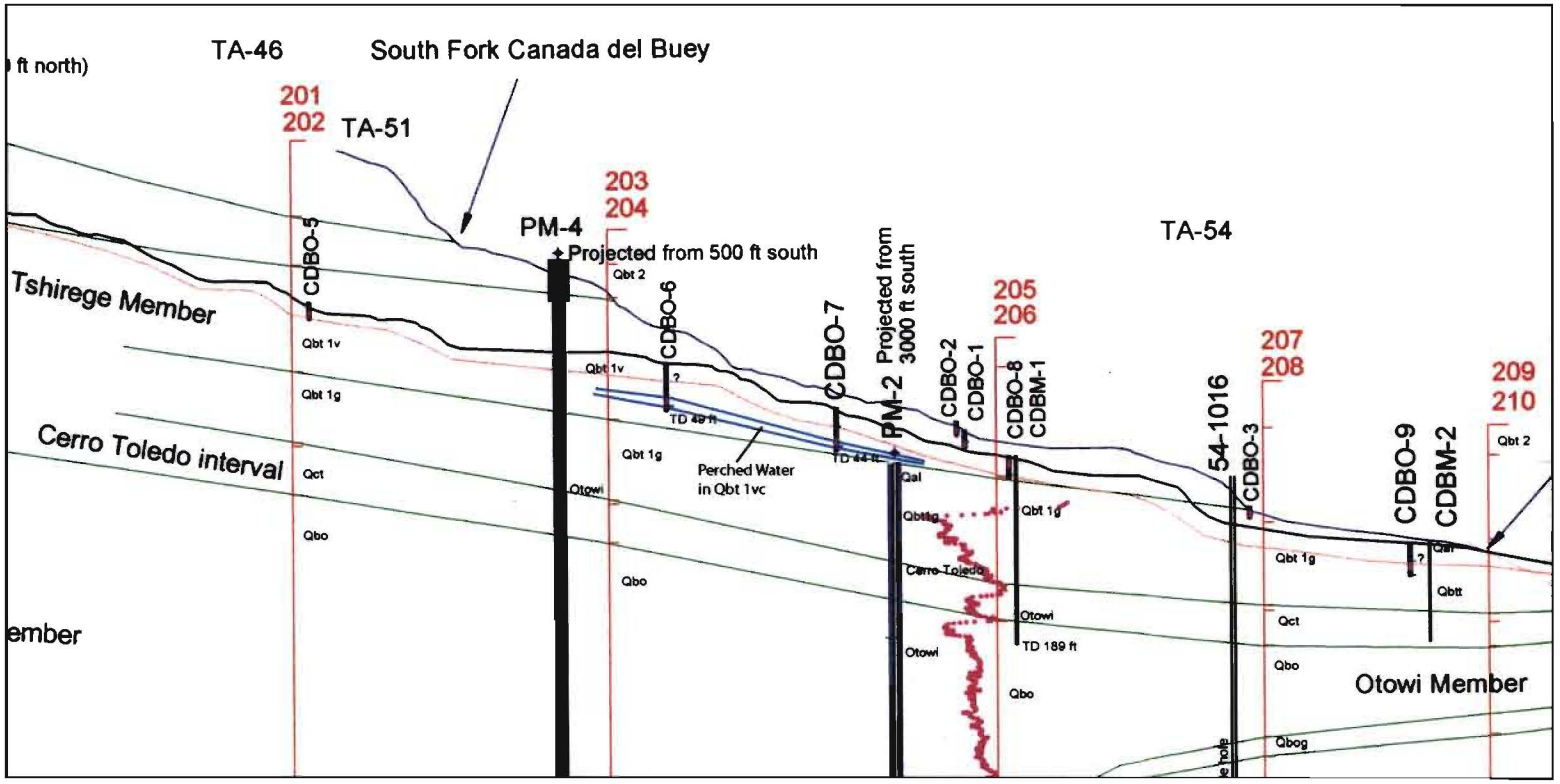
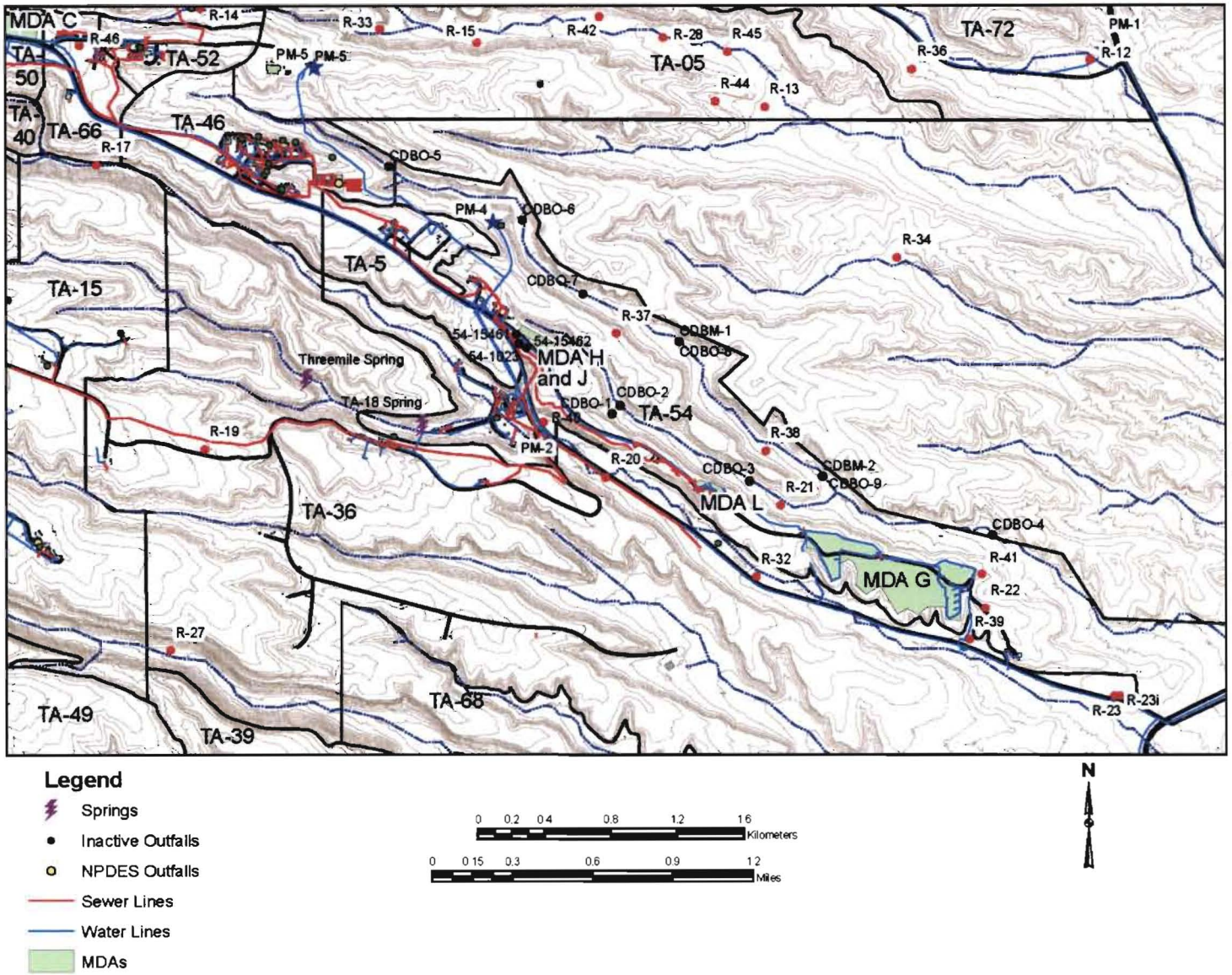
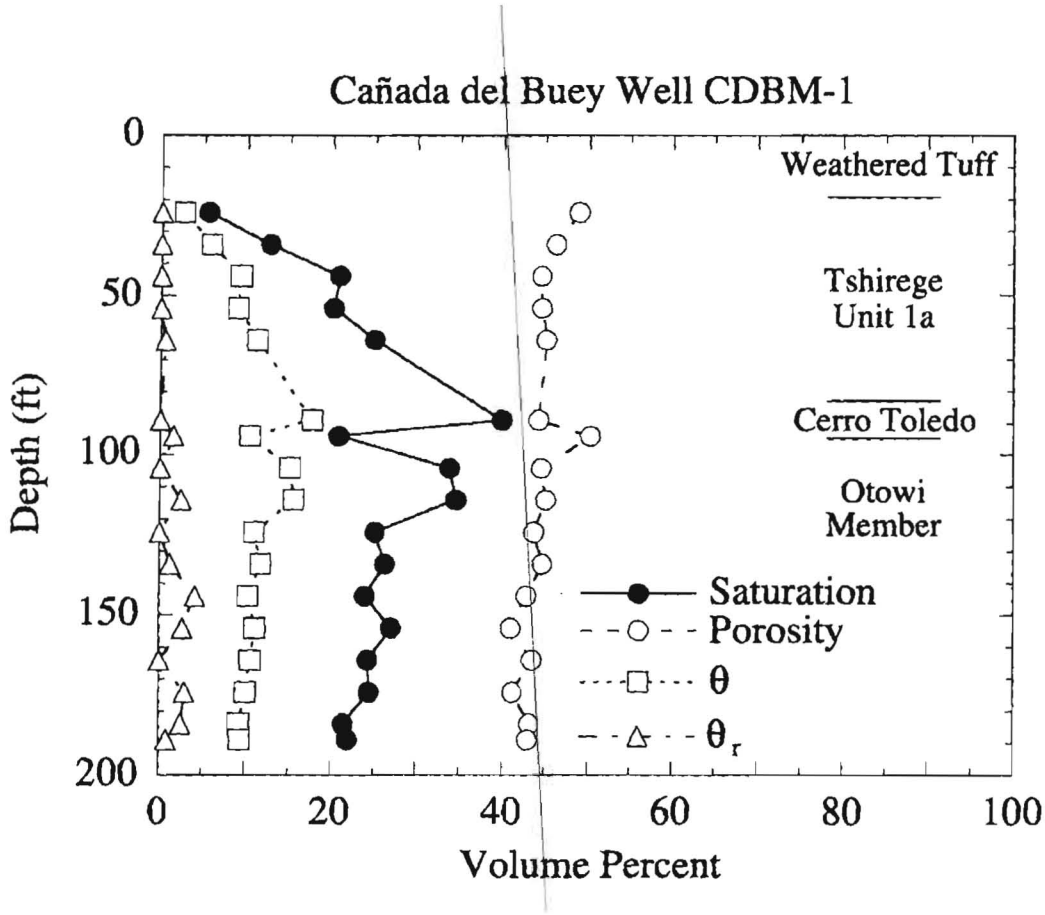
RPF, MS M707
IRM-RMMSO, MS A150 (date-stamped letter emailed)



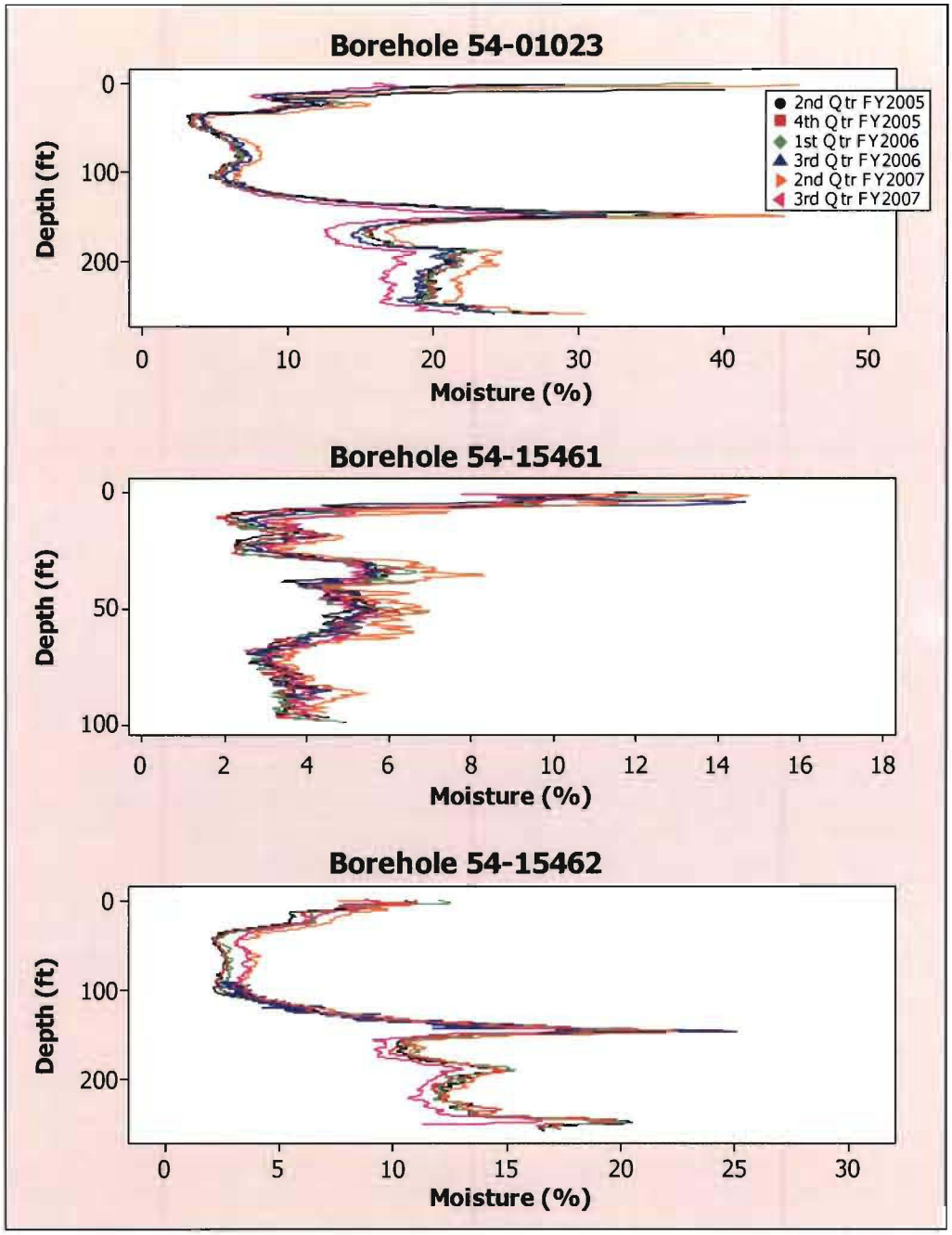
Attachment 1. Geologic cross-section of Cañada del Buey near CdBO-6 and CdBO-7



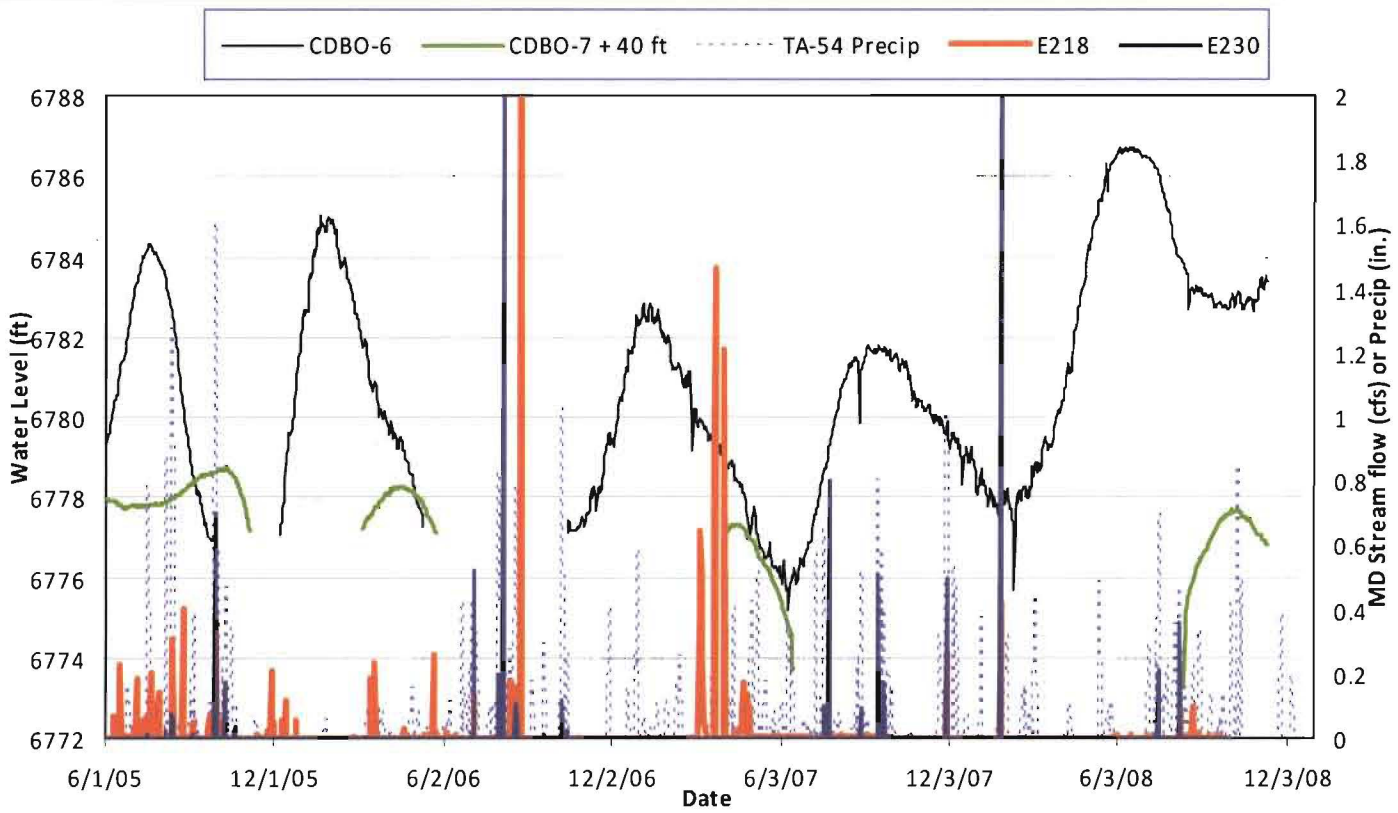
Attachment 2. Map view of Cañada del Buey



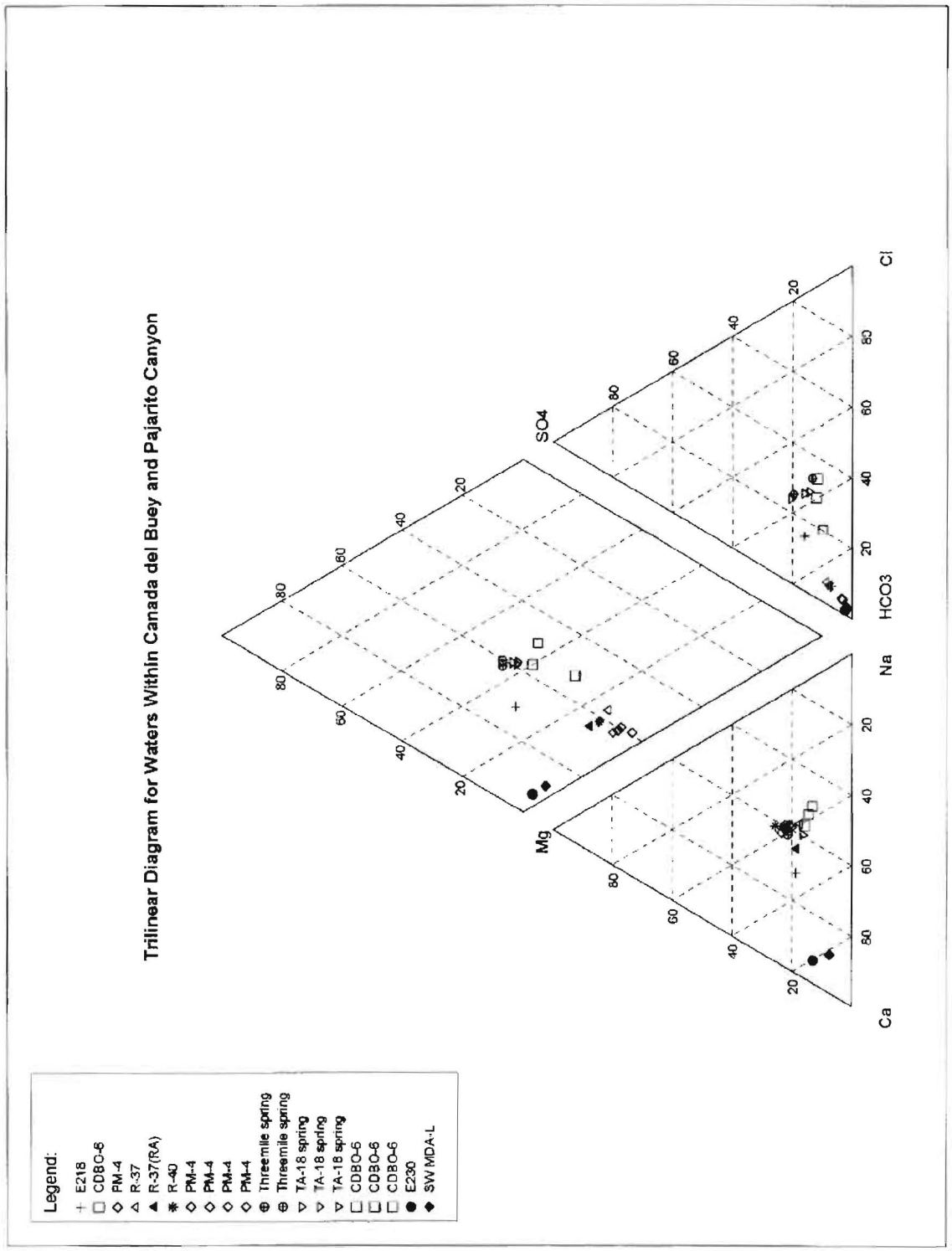
Attachment 3. Moisture data for CDBM-1 in Cañada del Buey. Note that volumetric water content (θ) is less than 20% over length of borehole and Qbt 1v–c (Unit 1b of theTshirege Member in this nomenclature) is absent.



Attachment 4. Moisture monitoring results for MDA H boreholes (% by volume)



Attachment 5. CdBO-6 water-level data, adjusted CdBO-7 water-level data, stream flow data from Gages E218 and E230, and TA-54 precipitation data. Note: the CdBO-6 transducer was lowered from 6776.2 to 6773.2 ft on 04/30/07; the CdBO-7 water level was adjusted upwards by 40 ft so it could be superimposed on this plot.



Attachment 6. Trilinear diagram showing major ion water chemistry at wells CdBO-6, R-37, R-40, and PM-4, TA-18 Spring, Threemile Spring, and surface-water samples collected near TA-46

Attachment 7,
CdBO-6 Frequency of Detection Table

Location	Port Depth (ft)	Suite	Analyte	F/UF	Units	No of Analyses	No of Detects	Min	Avg	Max	Standard	Standard Source
CDBO-6	34	Diox/Fur	Heptachlorodibenzodioxin[1,2,3,4,6,7,8-]	UF	ug/L	3	0	(0.00000237)	(0.00000258)	(0.00000269)		
CDBO-6	34	Diox/Fur	Heptachlorodibenzodioxins (Total)	UF	ug/L	3	0	(0.00000237)	(0.00000258)	(0.00000269)		
CDBO-6	34	Diox/Fur	Heptachlorodibenzofuran[1,2,3,4,6,7,8-]	UF	ug/L	3	0	(0.000000778)	(0.00000129)	(0.00000217)		
CDBO-6	34	Diox/Fur	Heptachlorodibenzofuran[1,2,3,4,7,8,9-]	UF	ug/L	3	0	(0.000000935)	(0.00000143)	(0.00000229)		
CDBO-6	34	Diox/Fur	Heptachlorodibenzofurans (Total)	UF	ug/L	3	0	(0.000000843)	(0.00000135)	(0.00000223)		
CDBO-6	34	Diox/Fur	Hexachlorodibenzodioxin[1,2,3,4,7,8-]	UF	ug/L	3	0	(0.0000019)	(0.00000224)	(0.00000274)		
CDBO-6	34	Diox/Fur	Hexachlorodibenzodioxin[1,2,3,6,7,8-]	UF	ug/L	3	0	(0.00000197)	(0.00000225)	(0.00000265)		
CDBO-6	34	Diox/Fur	Hexachlorodibenzodioxin[1,2,3,7,8,9-]	UF	ug/L	3	0	(0.00000184)	(0.00000216)	(0.00000261)	0.000108438	Reg6
CDBO-6	34	Diox/Fur	Hexachlorodibenzodioxins (Total)	UF	ug/L	3	0	(0.0000019)	(0.00000222)	(0.00000266)		
CDBO-6	34	Diox/Fur	Hexachlorodibenzofuran[1,2,3,4,7,8-]	UF	ug/L	3	0	(0.000000647)	(0.000000759)	(0.000000974)		
CDBO-6	34	Diox/Fur	Hexachlorodibenzofuran[1,2,3,6,7,8-]	UF	ug/L	3	0	(0.000000686)	(0.000000796)	(0.00000101)		
CDBO-6	34	Diox/Fur	Hexachlorodibenzofuran[1,2,3,7,8,9-]	UF	ug/L	3	0	(0.00000105)	(0.00000127)	(0.00000165)		
CDBO-6	34	Diox/Fur	Hexachlorodibenzofuran[2,3,4,6,7,8-]	UF	ug/L	3	0	(0.000000752)	(0.000000867)	(0.00000108)		
CDBO-6	34	Diox/Fur	Hexachlorodibenzofurans (Total)	UF	ug/L	3	0	(0.000000773)	(0.000000909)	(0.00000116)		
CDBO-6	34	Diox/Fur	Octachlorodibenzodioxin[1,2,3,4,6,7,8,9-]	UF	ug/L	2	1	0.00000876	0.00000876	0.00000876		
CDBO-6	34	Diox/Fur	Octachlorodibenzofuran[1,2,3,4,6,7,8,9-]	UF	ug/L	3	0	(0.00000152)	(0.00000254)	(0.00000316)		
CDBO-6	34	Diox/Fur	Pentachlorodibenzodioxin[1,2,3,7,8-]	UF	ug/L	3	0	(0.00000149)	(0.00000182)	(0.00000199)		
CDBO-6	34	Diox/Fur	Pentachlorodibenzodioxins (Total)	UF	ug/L	3	0	(0.00000149)	(0.00000216)	(0.00000299)		
CDBO-6	34	Diox/Fur	Pentachlorodibenzofuran[1,2,3,7,8-]	UF	ug/L	3	0	(0.00000124)	(0.00000154)	(0.00000169)		
CDBO-6	34	Diox/Fur	Pentachlorodibenzofuran[2,3,4,7,8-]	UF	ug/L	3	0	(0.00000112)	(0.0000014)	(0.00000166)		
CDBO-6	34	Diox/Fur	Pentachlorodibenzofurans (Totals)	UF	ug/L	3	0	(0.00000162)	(0.00000194)	(0.00000233)		
CDBO-6	34	Diox/Fur	Tetrachlorodibenzodioxin[2,3,7,8-]	UF	ug/L	3	0	(0.000000633)	(0.00000152)	(0.00000213)	0.00003	MCL
CDBO-6	34	Diox/Fur	Tetrachlorodibenzodioxins (Total)	UF	ug/L	3	0	(0.000000632)	(0.00000152)	(0.00000213)		
CDBO-6	34	Diox/Fur	Tetrachlorodibenzofuran[2,3,7,8-]	UF	ug/L	3	0	(0.000000668)	(0.00000147)	(0.00000214)		
CDBO-6	34	Diox/Fur	Tetrachlorodibenzofurans (Totals)	UF	ug/L	3	0	(0.000000669)	(0.00000147)	(0.00000214)		
CDBO-6	34	Geninorg	Alkalinity-CO3	F	mg/L	8	0	(0.725)	(1)	(1.45)		
CDBO-6	34	Geninorg	Alkalinity-CO3	UF	mg/L	2	0	(0.8)	(0.8)	(0.8)		
CDBO-6	34	Geninorg	Alkalinity-CO3+HCO3	F	mg/L	8	8	50.3	55.65	62.4		
CDBO-6	34	Geninorg	Alkalinity-CO3+HCO3	UF	mg/L	2	2	74.364	74.692	75.02		
CDBO-6	34	Geninorg	Alkalinity-HCO3	F	mg/L	2	2	54.2	58.25	62.3		
CDBO-6	34	Geninorg	Ammonia	F	mg/L	3	0	(0.2)	(0.2)	(0.2)		
CDBO-6	34	Geninorg	Ammonia	UF	mg/L	1	0	(0.2)	(0.2)	(0.2)		
CDBO-6	34	Geninorg	Ammonia as Nitrogen	F	mg/L	15	1	0.303	0.303	0.303	0.2085714	Reg6
CDBO-6	34	Geninorg	Bromide	F	mg/L	6	1	0.087	0.087	0.087		
CDBO-6	34	Geninorg	Calcium	F	mg/L	9	9	12.4	15.04	17.2		
CDBO-6	34	Geninorg	Calcium	UF	mg/L	5	5	14.6	17.08	24.2		
CDBO-6	34	Geninorg	Chloride	F	mg/L	16	16	14.7	19.16875	25.6	250	NMGSF
CDBO-6	34	Geninorg	Chloride	UF	mg/L	2	2	17.9	19.7	21.5		
CDBO-6	34	Geninorg	Cyanide (Total)	F	mg/L	2	1	0.00274	0.00274	0.00274	0.2	NMGSF
CDBO-6	34	Geninorg	Cyanide (Total)	UF	mg/L	6	1	0.00517	0.00517	0.00517	0.2	MCL
CDBO-6	34	Geninorg	Cyanide, Amenable to Chlorination	F	mg/L	1	1	0.00274	0.00274	0.00274	0.2	MCL
CDBO-6	34	Geninorg	Fluoride	F	mg/L	10	10	0.148	0.2087	0.229	1.6	NMGSF
CDBO-6	34	Geninorg	Fluoride	UF	mg/L	1	1	0.194	0.194	0.194	4	MCL
CDBO-6	34	Geninorg	Hardness	F	mg/L	9	9	42.9	51.84	59.3		
CDBO-6	34	Geninorg	Hardness	UF	mg/L	5	5	50.7	59.88	84.8		
CDBO-6	34	Geninorg	Magnesium	F	mg/L	9	9	2.91	3.47	3.95		

CDBO-6	34	Geninorg	Magnesium	UF	mg/L	5	5	3.44	4.182	5.92		
CDBO-6	34	Geninorg	Nitrate-Nitrite as Nitrogen	F	mg/L	18	14	0.0671	0.787	9.1	10	NMGSF
CDBO-6	34	Geninorg	Nitrate-Nitrite as Nitrogen	UF	mg/L	1	0	(0.1)	(0.1)	(0.1)	10	MCL
CDBO-6	34	Geninorg	Perchlorate	F	ug/L	6	6	0.298	0.338	0.352	24.5	Reg6
CDBO-6	34	Geninorg	Perchlorate	UF	ug/L	2	0	(1.45)	(1.915)	(2.38)	24.5	Reg6
CDBO-6	34	Geninorg	pH	F	SU	8	8	6.59	6.9275	7.13		
CDBO-6	34	Geninorg	pH	UF	mg/L	1	1	7.076	7.076	7.076		
CDBO-6	34	Geninorg	Potassium	F	mg/L	9	9	1.8	2.02	2.41		
CDBO-6	34	Geninorg	Potassium	UF	mg/L	5	5	2.13	2.726	4.14		
CDBO-6	34	Geninorg	Silicon Dioxide	F	mg/L	5	5	53	57.38	61		
CDBO-6	34	Geninorg	Silicon Dioxide	UF	mg/L	1	1	79.4	79.4	79.4		
CDBO-6	34	Geninorg	Sodium	F	mg/L	9	9	18.4	20.44	22.8		
CDBO-6	34	Geninorg	Sodium	UF	mg/L	5	5	19.1	21.04	23.2		
CDBO-6	34	Geninorg	Specific Conductance	F	uS/cm	8	8	52.1	185.5	219		
CDBO-6	34	Geninorg	Sulfate	F	mg/L	8	8	8.37	9.98	10.5	600	NMGSF
CDBO-6	34	Geninorg	Sulfate	UF	mg/L	1	1	7.91	7.91	7.91		
CDBO-6	34	Geninorg	Total Dissolved Solids	F	mg/L	15	15	112	165.8	205	1000	NMGSF
CDBO-6	34	Geninorg	Total Kjeldahl Nitrogen	F	mg/L	15	7	0.047	0.28	1		
CDBO-6	34	Geninorg	Total Kjeldahl Nitrogen	UF	mg/L	6	0	(0.01)	(0.10183)	(0.2)		
CDBO-6	34	Geninorg	Total Organic Carbon	UF	mg/L	5	3	1.44	1.74	2.04		
CDBO-6	34	Geninorg	Total Phosphate as Phosphorus	F	mg/L	8	7	0.054	0.152	0.22		
CDBO-6	34	Geninorg	Total Suspended Solids	UF	mg/L	6	6	25.6	123.9	181		
CDBO-6	34	Herb	D[2,4-]	UF	ug/L	1	0	(0.275)	(0.275)	(0.275)		
CDBO-6	34	Herb	Dalapon	UF	ug/L	1	0	(5.49)	(5.49)	(5.49)		
CDBO-6	34	Herb	DB[2,4-]	UF	ug/L	1	0	(0.275)	(0.275)	(0.275)		
CDBO-6	34	Herb	Dicamba	UF	ug/L	1	0	(0.275)	(0.275)	(0.275)		
CDBO-6	34	Herb	Dichlorprop	UF	ug/L	1	0	(0.275)	(0.275)	(0.275)		
CDBO-6	34	Herb	Dinoseb	UF	ug/L	1	0	(0.275)	(0.275)	(0.275)		
CDBO-6	34	Herb	MCPA	UF	ug/L	1	0	(54.9)	(54.9)	(54.9)		
CDBO-6	34	Herb	MCPP	UF	ug/L	1	0	(54.9)	(54.9)	(54.9)		
CDBO-6	34	Herb	T[2,4,5-]	UF	ug/L	1	0	(0.275)	(0.275)	(0.275)		
CDBO-6	34	Herb	TP[2,4,5-]	UF	ug/L	1	0	(0.275)	(0.275)	(0.275)		
CDBO-6	34	Hexp	2,4-Diamino-6-nitrotoluene	UF	ug/L	2	0	(1.3)	(1.3)	(1.3)		
CDBO-6	34	Hexp	2,6-Diamino-4-nitrotoluene	UF	ug/L	2	0	(1.3)	(1.3)	(1.3)		
CDBO-6	34	Hexp	3,5-Dinitroaniline	UF	ug/L	2	0	(1.3)	(1.3)	(1.3)		
CDBO-6	34	Hexp	Amino-2,6-dinitrotoluene[4-]	UF	ug/L	2	0	(0.325)	(0.325)	(0.325)		
CDBO-6	34	Hexp	Amino-4,6-dinitrotoluene[2-]	UF	ug/L	2	0	(0.325)	(0.325)	(0.325)		
CDBO-6	34	Hexp	Dinitrobenzene[1,3-]	UF	ug/L	2	0	(0.325)	(0.325)	(0.325)	3.65	Reg6
CDBO-6	34	Hexp	Dinitrotoluene[2,4-]	UF	ug/L	2	0	(0.325)	(0.325)	(0.325)		
CDBO-6	34	Hexp	Dinitrotoluene[2,6-]	UF	ug/L	2	0	(0.325)	(0.325)	(0.325)		
CDBO-6	34	Hexp	HMX	UF	ug/L	2	0	(0.325)	(0.325)	(0.325)	1825	Reg6
CDBO-6	34	Hexp	Nitrobenzene	UF	ug/L	2	0	(0.325)	(0.325)	(0.325)		
CDBO-6	34	Hexp	Nitrotoluene[2-]	UF	ug/L	2	0	(0.325)	(0.325)	(0.325)	2.92	Reg6
CDBO-6	34	Hexp	Nitrotoluene[3-]	UF	ug/L	2	0	(0.325)	(0.325)	(0.325)	121.67	Reg6
CDBO-6	34	Hexp	Nitrotoluene[4-]	UF	ug/L	2	0	(0.649)	(0.649)	(0.649)	39.55	Reg6
CDBO-6	34	Hexp	PETN	UF	ug/L	2	0	(1.3)	(1.3)	(1.3)		
CDBO-6	34	Hexp	RDX	UF	ug/L	2	0	(0.325)	(0.325)	(0.325)	6.1	Reg6
CDBO-6	34	Hexp	TATB	UF	ug/L	2	0	(1.3)	(1.3)	(1.3)		
CDBO-6	34	Hexp	Tetryl	UF	ug/L	2	0	(0.649)	(0.649)	(0.649)	146	Reg6

CDBO-6	34	Hexp	Trinitrobenzene[1,3,5-]	UF	ug/L	2	0	(0.325)	(0.325)	(0.325)	1095	Reg6
CDBO-6	34	Hexp	Trinitrotoluene[2,4,6-]	UF	ug/L	2	0	(0.325)	(0.325)	(0.325)	22.4	Reg6
CDBO-6	34	Hexp	Tris (o-cresyl) phosphate	UF	ug/L	2	0	(1.3)	(1.3)	(1.3)		
CDBO-6	34	Metals	Aluminum	F	ug/L	9	9	133	554.33	2580	5000	NMGSF
CDBO-6	34	Metals	Aluminum	UF	ug/L	7	7	1050	4471.42	9460	36500	Reg6
CDBO-6	34	Metals	Antimony	F	ug/L	9	0	(0.153)	(0.937)	(2)	6	MCL
CDBO-6	34	Metals	Antimony	UF	ug/L	7	0	(0.203)	(1.069)	(2)	6	MCL
CDBO-6	34	Metals	Arsenic	F	ug/L	10	3	1.6	1.67	1.8	10	MCL
CDBO-6	34	Metals	Arsenic	UF	ug/L	8	2	1.7	1.95	2.2	10	MCL
CDBO-6	34	Metals	Barium	F	ug/L	10	10	78.1	96.94	163	1000	NMGSF
CDBO-6	34	Metals	Barium	UF	ug/L	8	8	83.5	144.68	462	2000	MCL
CDBO-6	34	Metals	Beryllium	F	ug/L	9	0	(0.158)	(2.146)	(5)	4	MCL
CDBO-6	34	Metals	Beryllium	UF	ug/L	7	2	0.343	2.4	4.5	4	MCL
CDBO-6	34	Metals	Boron	F	ug/L	9	5	31.1	38.34	58.1	750	NMGSF
CDBO-6	34	Metals	Boron	UF	ug/L	7	3	34.7	42.97	54.7	7300	Reg6
CDBO-6	34	Metals	Cadmium	F	ug/L	10	3	0.048	0.872	1.4	5	MCL
CDBO-6	34	Metals	Cadmium	UF	ug/L	8	2	0.13	0.15	0.179	5	MCL
CDBO-6	34	Metals	Chromium	F	ug/L	10	2	1.1	1.5	1.9	50	NMGSF
CDBO-6	34	Metals	Chromium	UF	ug/L	8	3	2.53	3.74	5.5	100	MCL
CDBO-6	34	Metals	Cobalt	F	ug/L	9	3	3.4	16.97	44.1	50	NMGSF
CDBO-6	34	Metals	Cobalt	UF	ug/L	7	3	2.12	4.17	6.39	730	Reg6
CDBO-6	34	Metals	Copper	F	ug/L	9	2	2.8	3.4	4	1000	NMGSF
CDBO-6	34	Metals	Copper	UF	ug/L	8	2	2.39	3.045	3.7	1300	MCL
CDBO-6	34	Metals	Iron	F	ug/L	10	7	83.9	353.7	1310	1000	NMGSF
CDBO-6	34	Metals	Iron	UF	ug/L	8	8	432	2543.9	8330	25550	Reg6
CDBO-6	34	Metals	Lead	F	ug/L	10	3	0.334	2.65	4.3	15	MCL
CDBO-6	34	Metals	Lead	UF	ug/L	8	5	0.61	2.77	6.8	15	Reg6
CDBO-6	34	Metals	Manganese	F	ug/L	10	5	3.8	28.3	88.3	200	NMGSF
CDBO-6	34	Metals	Manganese	UF	ug/L	8	8	4.7	84.69	567	1703.09	Reg6
CDBO-6	34	Metals	Mercury	F	ug/L	9	0	(0.03)	(0.103)	(0.2)	2	MCL
CDBO-6	34	Metals	Mercury	UF	ug/L	9	0	(0.0472)	(0.105)	(0.2)	2	NMGSU
CDBO-6	34	Metals	Molybdenum	F	ug/L	9	2	0.7	1.65	2.6	1000	NMGSF
CDBO-6	34	Metals	Molybdenum	UF	ug/L	7	2	0.79	1.135	1.48	182.5	Reg6
CDBO-6	34	Metals	Nickel	F	ug/L	9	6	0.68	2.23	7.98	100	MCL
CDBO-6	34	Metals	Nickel	UF	ug/L	7	5	1	1.7	2.84	100	MCL
CDBO-6	34	Metals	Selenium	F	ug/L	10	1	4.31	4.31	4.31	50	NMGSF
CDBO-6	34	Metals	Selenium	UF	ug/L	8	1	2.97	2.97	2.97	50	MCL
CDBO-6	34	Metals	Silicon Dioxide	F	mg/L	3	3	53.2	54.67	56.6		
CDBO-6	34	Metals	Silver	F	ug/L	10	0	(0.197)	(0.57)	(1)	50	NMGSF
CDBO-6	34	Metals	Silver	UF	ug/L	8	0	(0.2)	(0.7)	(1)	182.5	Reg6
CDBO-6	34	Metals	Strontium	F	ug/L	9	9	81.6	99.3	119	21900	Reg6
CDBO-6	34	Metals	Strontium	UF	ug/L	7	7	86.3	109.1	173	21900	Reg6
CDBO-6	34	Metals	Thallium	F	ug/L	9	1	0.54	0.54	0.54	2	MCL
CDBO-6	34	Metals	Thallium	UF	ug/L	7	1	0.47	0.47	0.47	2	MCL
CDBO-6	34	Metals	Tin	F	ug/L	9	0	(2.31)	(15.35)	(100)	21900	Reg6
CDBO-6	34	Metals	Tin	UF	ug/L	7	0	(2.31)	(18.65)	(100)	21900	Reg6
CDBO-6	34	Metals	Uranium	F	ug/L	7	5	0.057	0.174	0.61	30	NMGSF
CDBO-6	34	Metals	Uranium	UF	ug/L	6	5	0.1	0.35	0.59	30	MCL
CDBO-6	34	Metals	Vanadium	F	ug/L	9	8	3.7	4.86	6.5	182.5	Reg6

CDBO-6	34	Metals	Vanadium	UF	ug/L	7	7	4.3	10.18	26.7	182.5	Reg6
CDBO-6	34	Metals	Zinc	F	ug/L	10	9	2.1	22.1	137	10000	NMGSF
CDBO-6	34	Metals	Zinc	UF	ug/L	8	4	15.2	67.9	185	10950	Reg6
CDBO-6	34	PCB	Aroclor-1016	UF	ug/L	1	0	(0.1)	(0.1)	(0.1)		
CDBO-6	34	PCB	Aroclor-1221	UF	ug/L	1	0	(0.1)	(0.1)	(0.1)		
CDBO-6	34	PCB	Aroclor-1232	UF	ug/L	1	0	(0.1)	(0.1)	(0.1)		
CDBO-6	34	PCB	Aroclor-1242	UF	ug/L	1	0	(0.1)	(0.1)	(0.1)		
CDBO-6	34	PCB	Aroclor-1248	UF	ug/L	1	0	(0.1)	(0.1)	(0.1)		
CDBO-6	34	PCB	Aroclor-1254	UF	ug/L	1	0	(0.1)	(0.1)	(0.1)		
CDBO-6	34	PCB	Aroclor-1260	UF	ug/L	1	0	(0.1)	(0.1)	(0.1)		
CDBO-6	34	PCB	Aroclor-1262	UF	ug/L	1	0	(0.1)	(0.1)	(0.1)		
CDBO-6	34	Pest	Aldrin	UF	ug/L	3	0	(0.02)	(0.021)	(0.022)		
CDBO-6	34	Pest	BHC[alpha-]	UF	ug/L	3	0	(0.02)	(0.021)	(0.022)		
CDBO-6	34	Pest	BHC[beta-]	UF	ug/L	3	0	(0.02)	(0.021)	(0.022)		
CDBO-6	34	Pest	BHC[delta-]	UF	ug/L	3	0	(0.02)	(0.021)	(0.022)		
CDBO-6	34	Pest	BHC[gamma-]	UF	ug/L	3	0	(0.02)	(0.021)	(0.022)		
CDBO-6	34	Pest	Chlordane[alpha-]	UF	ug/L	3	0	(0.02)	(0.021)	(0.022)		
CDBO-6	34	Pest	Chlordane[gamma-]	UF	ug/L	3	0	(0.02)	(0.021)	(0.022)		
CDBO-6	34	Pest	DDD[4,4'-]	UF	ug/L	3	0	(0.04)	(0.042)	(0.044)		
CDBO-6	34	Pest	DDE[4,4'-]	UF	ug/L	3	0	(0.04)	(0.042)	(0.044)		
CDBO-6	34	Pest	DDT[4,4'-]	UF	ug/L	3	0	(0.04)	(0.042)	(0.044)		
CDBO-6	34	Pest	Dieldrin	UF	ug/L	3	0	(0.04)	(0.042)	(0.044)		
CDBO-6	34	Pest	Endosulfan I	UF	ug/L	3	0	(0.02)	(0.021)	(0.022)		
CDBO-6	34	Pest	Endosulfan II	UF	ug/L	3	0	(0.04)	(0.042)	(0.044)		
CDBO-6	34	Pest	Endosulfan Sulfate	UF	ug/L	3	0	(0.04)	(0.042)	(0.044)		
CDBO-6	34	Pest	Endrin	UF	ug/L	3	0	(0.04)	(0.042)	(0.044)		
CDBO-6	34	Pest	Endrin Aldehyde	UF	ug/L	3	0	(0.04)	(0.042)	(0.044)		
CDBO-6	34	Pest	Endrin Ketone	UF	ug/L	3	0	(0.04)	(0.042)	(0.044)		
CDBO-6	34	Pest	Heptachlor	UF	ug/L	3	0	(0.02)	(0.021)	(0.022)		
CDBO-6	34	Pest	Heptachlor Epoxide	UF	ug/L	3	0	(0.02)	(0.021)	(0.022)		
CDBO-6	34	Pest	Methoxychlor[4,4'-]	UF	ug/L	3	0	(0.2)	(0.21)	(0.22)		
CDBO-6	34	Pest	Toxaphene (Technical Grade)	UF	ug/L	3	0	(0.5)	(0.52)	(0.549)		
CDBO-6	34	Rad	Americium-241	F	pCi/L	2	0	(-0.0108)	(-0.0036)	(0.00359)		
CDBO-6	34	Rad	Americium-241	UF	pCi/L	4	0	(-0.0252)	(0.0021)	(0.0201)	20	NMRPS
CDBO-6	34	Rad	Cesium-137	F	pCi/L	2	0	(-0.339)	(0.323)	(0.985)		
CDBO-6	34	Rad	Cesium-137	UF	pCi/L	4	0	(-0.686)	(0.128)	(0.622)	1000	NMRPS
CDBO-6	34	Rad	Cobalt-60	F	pCi/L	2	0	(-0.205)	(-0.079)	(0.0462)		
CDBO-6	34	Rad	Cobalt-60	UF	pCi/L	4	0	(-0.674)	(0.65)	(2.71)	3000	NMRPS
CDBO-6	34	Rad	Gross alpha	F	pCi/L	1	1	3.43	3.43	3.43	15	MCL
CDBO-6	34	Rad	Gross alpha	UF	pCi/L	4	3	2.72	8.58	19.3	15	MCL
CDBO-6	34	Rad	Gross alpha/beta	UF	pCi/L	1	1	3.7	3.7	3.7		
CDBO-6	34	Rad	Gross beta	UF	pCi/L	4	4	3.26	10.1	21.4	50	SMCL
CDBO-6	34	Rad	Gross gamma	F	pCi/L	2	0	(7.31)	(52.2)	(97)		
CDBO-6	34	Rad	Gross gamma	UF	pCi/L	3	0	(29.9)	(99.6)	(156)		
CDBO-6	34	Rad	Neptunium-237	F	pCi/L	2	0	(-0.00959)	(1.5)	(3.01)		
CDBO-6	34	Rad	Neptunium-237	UF	pCi/L	4	0	(-15.3)	(-4.2)	(14.4)	20	NMRPS
CDBO-6	34	Rad	Plutonium-238	F	pCi/L	2	0	(0)	(0.0018)	(0.00361)		
CDBO-6	34	Rad	Plutonium-238	UF	pCi/L	4	1	-0.00544	-0.005	-0.00544	20	NMRPS
CDBO-6	34	Rad	Plutonium-239/240	F	pCi/L	2	0	(-0.00361)	(-0.0008)	(0.00202)		

CDBO-6	34	Rad	Plutonium-239/240	UF	pCi/L	4	1	-0.0136	-0.014	-0.0136	20	NMRPS
CDBO-6	34	Rad	Potassium-40	F	pCi/L	2	0	(11.8)	(14.7)	(17.5)		
CDBO-6	34	Rad	Potassium-40	UF	pCi/L	4	0	(-20.3)	(1.7)	(21.8)	4000	NMRPS
CDBO-6	34	Rad	Radium-226	F	pCi/L	1	1	0.502	0.502	0.502	5	MCL
CDBO-6	34	Rad	Radium-226	UF	pCi/L	4	2	0.491	0.64	0.789	5	MCL
CDBO-6	34	Rad	Radium-228	F	pCi/L	1	0	(0.675)	(0.68)	(0.675)	5	MCL
CDBO-6	34	Rad	Radium-228	UF	pCi/L	4	2	1.13	1.17	1.21	5	MCL
CDBO-6	34	Rad	Sodium-22	F	pCi/L	2	0	(-0.66)	(1.02)	(2.69)		
CDBO-6	34	Rad	Sodium-22	UF	pCi/L	4	0	(-0.197)	(0.04)	(0.165)	6000	NMRPS
CDBO-6	34	Rad	Strontium-90	F	pCi/L	2	0	(0.00476)	(0.03)	(0.0656)		
CDBO-6	34	Rad	Strontium-90	UF	pCi/L	4	0	(-0.0776)	(0.026)	(0.154)	8	MCL
CDBO-6	34	Rad	Thorium-228	UF	pCi/L	1	1	0.109	0.109	0.109		
CDBO-6	34	Rad	Thorium-230	UF	pCi/L	1	1	0.091	0.091	0.091		
CDBO-6	34	Rad	Thorium-232	UF	pCi/L	1	1	0.0542	0.0542	0.0542		
CDBO-6	34	Rad	Tritium	UF	pCi/L	6	4	40.04	84.01	112.7	20000	MCL
CDBO-6	34	Rad	Uranium-234	F	pCi/L	2	0	(0.00971)	(0.022)	(0.0336)		
CDBO-6	34	Rad	Uranium-234	UF	pCi/L	4	4	0.101	0.145	0.202	300	NMRPS
CDBO-6	34	Rad	Uranium-235/236	F	pCi/L	2	0	(0)	(0.003)	(0.006)		
CDBO-6	34	Rad	Uranium-235/236	UF	pCi/L	4	0	(0)	(0.01)	(0.018)		
CDBO-6	34	Rad	Uranium-238	F	pCi/L	2	0	(0.0267)	(0.033)	(0.0387)		
CDBO-6	34	Rad	Uranium-238	UF	pCi/L	4	3	0.0654	0.115	0.161	300	NMRPS
CDBO-6	34	Svoa	Acenaphthene	UF	ug/L	8	0	(0.16)	(0.96)	(1.49)	365	Reg6
CDBO-6	34	Svoa	Acenaphthylene	UF	ug/L	8	0	(0.14)	(0.96)	(1.49)		
CDBO-6	34	Svoa	Aniline	UF	ug/L	8	0	(0.17)	(9.46)	(14.9)	117.95	Reg6
CDBO-6	34	Svoa	Anthracene	UF	ug/L	8	0	(0.11)	(0.96)	(1.49)	1825	Reg6
CDBO-6	34	Svoa	Atrazine	UF	ug/L	4	0	(10)	(11.3)	(14.9)	3	MCL
CDBO-6	34	Svoa	Azobenzene	UF	ug/L	5	0	(10)	(11.1)	(14.9)	6.1	Reg6
CDBO-6	34	Svoa	Benzidine	UF	ug/L	6	0	(10)	(24.4)	(50.8)	0.000936	Reg6
CDBO-6	34	Svoa	Benzo(a)anthracene	UF	ug/L	8	0	(0.1)	(0.95)	(1.49)	0.295	Reg6
CDBO-6	34	Svoa	Benzo(a)pyrene	UF	ug/L	8	0	(0.07)	(0.95)	(1.49)	0.2	MCL
CDBO-6	34	Svoa	Benzo(b)fluoranthene	UF	ug/L	8	1	0.215	0.215	0.215	0.295	Reg6
CDBO-6	34	Svoa	Benzo(g,h,i)perylene	UF	ug/L	8	0	(0.26)	(0.97)	(1.49)		
CDBO-6	34	Svoa	Benzo(k)fluoranthene	UF	ug/L	8	1	0.251	0.251	0.251	2.95	Reg6
CDBO-6	34	Svoa	Benzoic Acid	UF	ug/L	8	0	(2.76)	(19.2)	(29.8)	146000	Reg6
CDBO-6	34	Svoa	Benzyl Alcohol	UF	ug/L	8	0	(0.23)	(9.5)	(14.9)	10950	Reg6
CDBO-6	34	Svoa	Bis(2-chloroethoxy)methane	UF	ug/L	8	0	(0.19)	(9.5)	(14.9)		
CDBO-6	34	Svoa	Bis(2-chloroethyl)ether	UF	ug/L	8	0	(0.16)	(9.5)	(14.9)	0.602	Reg6
CDBO-6	34	Svoa	Bis(2-ethylhexyl)phthalate	UF	ug/L	8	2	0.72	3.975	7.23	6	MCL
CDBO-6	34	Svoa	Bromophenyl-phenylether[4-]	UF	ug/L	8	0	(0.18)	(9.5)	(14.9)		
CDBO-6	34	Svoa	Butylbenzylphthalate	UF	ug/L	8	0	(0.13)	(9.5)	(14.9)	7300	Reg6
CDBO-6	34	Svoa	Carbazole	UF	ug/L	1	0	(9.8)	(9.8)	(9.8)	33.62	Reg6
CDBO-6	34	Svoa	Chloro-3-methylphenol[4-]	F	ug/L	1	0	(10.4)	(10.4)	(10.4)		
CDBO-6	34	Svoa	Chloro-3-methylphenol[4-]	UF	ug/L	8	0	(0.21)	(9.5)	(14.9)		
CDBO-6	34	Svoa	Chloroaniline[4-]	UF	ug/L	8	0	(0.11)	(9.5)	(14.9)	146	Reg6
CDBO-6	34	Svoa	Chloronaphthalene[2-]	UF	ug/L	8	0	(0.13)	(0.96)	(1.49)	486.67	Reg6
CDBO-6	34	Svoa	Chlorophenol[2-]	F	ug/L	1	0	(10.4)	(10.4)	(10.4)	30.417	Reg6
CDBO-6	34	Svoa	Chlorophenol[2-]	UF	ug/L	8	0	(0.18)	(9.5)	(14.9)	30.417	Reg6
CDBO-6	34	Svoa	Chlorophenyl-phenyl[4-] Ether	UF	ug/L	8	0	(0.2)	(9.5)	(14.9)		
CDBO-6	34	Svoa	Chrysene	UF	ug/L	8	1	0.312	0.312	0.312	0.2	MCL

CDBO-6	34	Svoa	Dibenz(a,h)anthracene	UF	ug/L	8	0	(0.18)	(0.96)	(1.49)	0.0295	Reg6
CDBO-6	34	Svoa	Dibenzofuran	UF	ug/L	8	0	(0.18)	(9.5)	(14.9)	12.17	Reg6
CDBO-6	34	Svoa	Dichlorobenzene[1,2-]	UF	ug/L	8	0	(0.13)	(9.5)	(14.9)	600	MCL
CDBO-6	34	Svoa	Dichlorobenzene[1,3-]	UF	ug/L	8	0	(0.07)	(9.5)	(14.9)	600	MCL
CDBO-6	34	Svoa	Dichlorobenzene[1,4-]	UF	ug/L	8	0	(0.09)	(9.5)	(14.9)	75	MCL
CDBO-6	34	Svoa	Dichlorobenzidine[3,3'-]	UF	ug/L	8	0	(0.21)	(9.5)	(14.9)	1.49	Reg6
CDBO-6	34	Svoa	Dichlorophenol[2,4-]	F	ug/L	1	0	(10.4)	(10.4)	(10.4)	109.5	Reg6
CDBO-6	34	Svoa	Dichlorophenol[2,4-]	UF	ug/L	8	0	(0.19)	(9.5)	(14.9)	109.5	Reg6
CDBO-6	34	Svoa	Diethylphthalate	UF	ug/L	8	0	(0.27)	(9.5)	(14.9)	29200	Reg6
CDBO-6	34	Svoa	Dimethyl Phthalate	UF	ug/L	8	0	(0.15)	(9.5)	(14.9)	365000	Reg6
CDBO-6	34	Svoa	Dimethylphenol[2,4-]	F	ug/L	1	0	(10.4)	(10.4)	(10.4)	730	Reg6
CDBO-6	34	Svoa	Dimethylphenol[2,4-]	UF	ug/L	7	0	(0.2)	(9.4)	(14.9)	730	Reg6
CDBO-6	34	Svoa	Di-n-butylphthalate	UF	ug/L	8	0	(0.27)	(9.5)	(14.9)	3650	Reg6
CDBO-6	34	Svoa	Dinitro-2-methylphenol[4,6-]	F	ug/L	1	0	(10.4)	(10.4)	(10.4)		
CDBO-6	34	Svoa	Dinitro-2-methylphenol[4,6-]	UF	ug/L	8	0	(0.87)	(9.6)	(14.9)		
CDBO-6	34	Svoa	Dinitrophenol[2,4-]	F	ug/L	1	0	(20.8)	(20.8)	(20.8)	73	Reg6
CDBO-6	34	Svoa	Dinitrophenol[2,4-]	UF	ug/L	8	0	(0.65)	(18.94)	(29.8)	73	Reg6
CDBO-6	34	Svoa	Dinitrotoluene[2,4-]	UF	ug/L	8	0	(0.16)	(9.5)	(14.9)	73	Reg6
CDBO-6	34	Svoa	Dinitrotoluene[2,6-]	UF	ug/L	8	0	(0.18)	(9.46)	(14.9)	36.5	Reg6
CDBO-6	34	Svoa	Di-n-octylphthalate	UF	ug/L	8	1	9.36	9.36	9.36		
CDBO-6	34	Svoa	Dinoseb	UF	ug/L	5	0	(10)	(11.06)	(14.9)		
CDBO-6	34	Svoa	Dioxane[1,4-]	UF	ug/L	5	0	(10)	(11.06)	(14.9)	61.1	Reg6
CDBO-6	34	Svoa	Diphenylamine	UF	ug/L	8	0	(1.54)	(9.63)	(14.9)	912.5	Reg6
CDBO-6	34	Svoa	Diphenylhydrazine[1,2-]	UF	ug/L	3	0	(0.22)	(6.8)	(10.2)	0.84	Reg6
CDBO-6	34	Svoa	Fluoranthene	UF	ug/L	8	0	(0.09)	(0.95)	(1.49)	1460	Reg6
CDBO-6	34	Svoa	Fluorene	UF	ug/L	8	0	(0.07)	(0.95)	(1.49)	243.3	Reg6
CDBO-6	34	Svoa	Hexachlorobenzene	UF	ug/L	8	0	(0.16)	(9.5)	(14.9)	1	MCL
CDBO-6	34	Svoa	Hexachlorobutadiene	UF	ug/L	8	0	(0.19)	(9.5)	(14.9)	8.62	Reg6
CDBO-6	34	Svoa	Hexachlorocyclopentadiene	UF	ug/L	8	0	(0.04)	(9.4)	(14.9)	50	MCL
CDBO-6	34	Svoa	Hexachloroethane	UF	ug/L	8	0	(0.19)	(9.46)	(14.9)	48.02	Reg6
CDBO-6	34	Svoa	Indeno(1,2,3-cd)pyrene	UF	ug/L	8	0	(0.26)	(0.97)	(1.49)	0.295	Reg6
CDBO-6	34	Svoa	Isophorone	UF	ug/L	8	0	(0.17)	(9.5)	(14.9)	707.7004	Reg6
CDBO-6	34	Svoa	Methylnaphthalene[1-]	UF	ug/L	5	0	(1)	(1.1)	(1.49)		
CDBO-6	34	Svoa	Methylnaphthalene[2-]	UF	ug/L	8	0	(0.15)	(0.96)	(1.49)		
CDBO-6	34	Svoa	Methylphenol[2-]	F	ug/L	1	0	(10.4)	(10.4)	(10.4)	1825	Reg6
CDBO-6	34	Svoa	Methylphenol[2-]	UF	ug/L	8	0	(0.2)	(9.46)	(14.9)	1825	Reg6
CDBO-6	34	Svoa	Methylphenol[3-,4-]	UF	ug/L	3	0	(10)	(10.1)	(10.2)		
CDBO-6	34	Svoa	Methylphenol[4-]	F	ug/L	1	0	(10.4)	(10.4)	(10.4)	182.5	Reg6
CDBO-6	34	Svoa	Methylphenol[4-]	UF	ug/L	5	0	(0.13)	(9.1)	(14.9)	182.5	Reg6
CDBO-6	34	Svoa	Methylpyridine[2-]	UF	ug/L	2	0	(10)	(10.1)	(10.2)		
CDBO-6	34	Svoa	Naphthalene	UF	ug/L	8	0	(0.13)	(0.96)	(1.49)	30	NMGSU
CDBO-6	34	Svoa	Nitroaniline[2-]	UF	ug/L	8	0	(1.59)	(9.6)	(14.9)	109.5	Reg6
CDBO-6	34	Svoa	Nitroaniline[3-]	UF	ug/L	8	0	(1.08)	(9.6)	(14.9)		
CDBO-6	34	Svoa	Nitroaniline[4-]	UF	ug/L	8	0	(0.77)	(9.6)	(14.9)		
CDBO-6	34	Svoa	Nitrobenzene	UF	ug/L	8	0	(0.27)	(9.5)	(14.9)	3.4	Reg6
CDBO-6	34	Svoa	Nitrophenol[2-]	F	ug/L	1	0	(10.4)	(10.4)	(10.4)		
CDBO-6	34	Svoa	Nitrophenol[2-]	UF	ug/L	8	0	(0.1)	(9.5)	(14.9)		
CDBO-6	34	Svoa	Nitrophenol[4-]	F	ug/L	1	0	(10.4)	(10.4)	(10.4)	292	Reg6
CDBO-6	34	Svoa	Nitrophenol[4-]	UF	ug/L	8	0	(4.84)	(10)	(14.9)	292	Reg6

CDBO-6	34	Svoa	Nitrosodiethylamine[N-]	UF	ug/L	5	0	(10)	(11.1)	(14.9)	0.0014	Reg6
CDBO-6	34	Svoa	Nitrosodimethylamine[N-]	UF	ug/L	8	0	(0.44)	(9.5)	(14.9)	0.0042	Reg6
CDBO-6	34	Svoa	Nitroso-di-n-butylamine[N-]	UF	ug/L	5	0	(10)	(11.1)	(14.9)	0.123	Reg6
CDBO-6	34	Svoa	Nitroso-di-n-propylamine[N-]	UF	ug/L	8	0	(0.17)	(9.5)	(14.9)	0.096	Reg6
CDBO-6	34	Svoa	Nitrosopyrrolidine[N-]	UF	ug/L	5	0	(10)	(11.1)	(14.9)	0.32	Reg6
CDBO-6	34	Svoa	Oxybis(1-chloropropane)[2,2'-]	UF	ug/L	8	0	(0.14)	(9.5)	(14.9)	9.54	Reg6
CDBO-6	34	Svoa	Pentachlorobenzene	UF	ug/L	5	0	(10)	(11.06)	(14.9)	29.2	Reg6
CDBO-6	34	Svoa	Pentachlorophenol	F	ug/L	1	0	(10.4)	(10.4)	(10.4)	1	MCL
CDBO-6	34	Svoa	Pentachlorophenol	UF	ug/L	8	0	(1.2)	(9.6)	(14.9)	1	MCL
CDBO-6	34	Svoa	Phenanthrene	UF	ug/L	8	0	(0.12)	(0.96)	(1.49)		
CDBO-6	34	Svoa	Phenol	F	ug/L	1	0	(10.4)	(10.4)	(10.4)	10950	Reg6
CDBO-6	34	Svoa	Phenol	UF	ug/L	8	0	(0.09)	(9.5)	(14.9)	5	NMGSU
CDBO-6	34	Svoa	Pyrene	UF	ug/L	8	0	(0.08)	(0.95)	(1.49)	182.5	Reg6
CDBO-6	34	Svoa	Pyridine	UF	ug/L	5	0	(0.09)	(9.1)	(14.9)	36.5	Reg6
CDBO-6	34	Svoa	Tetrachlorobenzene[1,2,4,5]	UF	ug/L	5	0	(10)	(11.1)	(14.9)	0.00003	MCL
CDBO-6	34	Svoa	Tetrachlorophenol[2,3,4,6-]	UF	ug/L	5	0	(10)	(11.1)	(14.9)	5	MCL
CDBO-6	34	Svoa	Trichlorobenzene[1,2,4-]	UF	ug/L	8	0	(0.11)	(9.5)	(14.9)	70	MCL
CDBO-6	34	Svoa	Trichlorophenol[2,4,5-]	F	ug/L	1	0	(10.4)	(10.4)	(10.4)	3650	Reg6
CDBO-6	34	Svoa	Trichlorophenol[2,4,5-]	UF	ug/L	8	0	(0.28)	(9.5)	(14.9)	3650	Reg6
CDBO-6	34	Svoa	Trichlorophenol[2,4,6-]	F	ug/L	1	0	(10.4)	(10.4)	(10.4)	61.1	Reg6
CDBO-6	34	Svoa	Trichlorophenol[2,4,6-]	UF	ug/L	8	0	(0.1)	(9.5)	(14.9)	61.1	Reg6
CDBO-6	34	Voa	Acetone	UF	ug/L	7	2	1.6	2.45	3.29	5475	Reg6
CDBO-6	34	Voa	Acetonitrile	UF	ug/L	4	0	(25)	(25)	(25)	124.1	Reg6
CDBO-6	34	Voa	Acrolein	UF	ug/L	5	0	(5)	(6)	(10)	0.042	Reg6
CDBO-6	34	Voa	Acrylonitrile	UF	ug/L	7	0	(5)	(5.7)	(10)	1.24	Reg6
CDBO-6	34	Voa	Benzene	F	ug/L	1	0	(1)	(1)	(1)	5	MCL
CDBO-6	34	Voa	Benzene	UF	ug/L	8	0	(0.149)	(0.89)	(1)	5	MCL
CDBO-6	34	Voa	Bromobenzene	UF	ug/L	7	0	(1)	(1)	(1)	23.25	Reg6
CDBO-6	34	Voa	Bromochloromethane	UF	ug/L	7	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Bromodichloromethane	UF	ug/L	8	0	(0.024)	(0.88)	(1)	10.69	Reg6
CDBO-6	34	Voa	Bromoform	UF	ug/L	8	0	(0.085)	(0.89)	(1)	85.1	Reg6
CDBO-6	34	Voa	Bromomethane	UF	ug/L	8	0	(0.628)	(0.95)	(1)	8.661	Reg6
CDBO-6	34	Voa	Butanone[2-]	UF	ug/L	6	0	(5)	(5)	(5)	7064.52	Reg6
CDBO-6	34	Voa	Butylbenzene[n-]	UF	ug/L	7	0	(1)	(1)	(1)	60.83	Reg6
CDBO-6	34	Voa	Butylbenzene[sec-]	UF	ug/L	7	0	(1)	(1)	(1)	60.83	Reg6
CDBO-6	34	Voa	Butylbenzene[tert-]	UF	ug/L	7	0	(1)	(1)	(1)	60.83	Reg6
CDBO-6	34	Voa	Carbon Disulfide	UF	ug/L	7	0	(5)	(5)	(5)	1042.86	Reg6
CDBO-6	34	Voa	Carbon Tetrachloride	F	ug/L	1	0	(1)	(1)	(1)	5	MCL
CDBO-6	34	Voa	Carbon Tetrachloride	UF	ug/L	8	0	(0.124)	(0.89)	(1)	5	MCL
CDBO-6	34	Voa	Chloro-1,3-butadiene[2-]	UF	ug/L	5	0	(1)	(1)	(1)	14.31	Reg6
CDBO-6	34	Voa	Chloro-1-propene[3-]	UF	ug/L	5	0	(5)	(5)	(5)	1825	Reg6
CDBO-6	34	Voa	Chlorobenzene	UF	ug/L	8	0	(0.603)	(0.95)	(1)	100	MCL
CDBO-6	34	Voa	Chlorodibromomethane	UF	ug/L	8	0	(0.089)	(0.89)	(1)	7.89	Reg6
CDBO-6	34	Voa	Chloroethane	UF	ug/L	8	0	(0.14)	(0.89)	(1)	228.57	Reg6
CDBO-6	34	Voa	Chloroethyl vinyl ether[2-]	UF	ug/L	4	0	(0.852)	(3.96)	(5)		
CDBO-6	34	Voa	Chloroform	F	ug/L	1	0	(1)	(1)	(1)	60	MCL
CDBO-6	34	Voa	Chloroform	UF	ug/L	8	0	(0.198)	(0.899)	(1)	60	MCL
CDBO-6	34	Voa	Chloromethane	UF	ug/L	8	0	(0.179)	(0.897)	(1)	21.35	Reg6
CDBO-6	34	Voa	Chlorotoluene[2-]	UF	ug/L	7	0	(1)	(1)	(1)	121.67	Reg6

CDBO-6	34	Voa	Chlorotoluene[4-]	UF	ug/L	7	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Dibromo-3-Chloropropane[1,2-]	UF	ug/L	7	0	(1)	(1)	(1)	0.2	MCL
CDBO-6	34	Voa	Dibromoethane[1,2-]	F	ug/L	1	0	(1)	(1)	(1)	0.05	MCL
CDBO-6	34	Voa	Dibromoethane[1,2-]	UF	ug/L	7	0	(1)	(1)	(1)	0.05	MCL
CDBO-6	34	Voa	Dibromomethane	UF	ug/L	7	0	(1)	(1)	(1)	60.8	Reg6
CDBO-6	34	Voa	Dichlorobenzene[1,2-]	UF	ug/L	8	0	(0.7)	(0.96)	(1)		
CDBO-6	34	Voa	Dichlorobenzene[1,3-]	UF	ug/L	8	0	(0.104)	(0.89)	(1)		
CDBO-6	34	Voa	Dichlorobenzene[1,4-]	UF	ug/L	8	0	(0.34)	(0.84)	(1)		
CDBO-6	34	Voa	Dichlorodifluoromethane	UF	ug/L	7	0	(1)	(1)	(1)	394.595	Reg6
CDBO-6	34	Voa	Dichloroethane[1,1-]	F	ug/L	1	0	(1)	(1)	(1)	1216.67	Reg6
CDBO-6	34	Voa	Dichloroethane[1,1-]	UF	ug/L	8	0	(0.099)	(0.89)	(1)	25	NMGSU
CDBO-6	34	Voa	Dichloroethane[1,2-]	F	ug/L	1	0	(1)	(1)	(1)	5	MCL
CDBO-6	34	Voa	Dichloroethane[1,2-]	UF	ug/L	8	0	(0.158)	(0.89475)	(1)	5	MCL
CDBO-6	34	Voa	Dichloroethene[1,1-]	F	ug/L	1	0	(1)	(1)	(1)	7	MCL
CDBO-6	34	Voa	Dichloroethene[1,1-]	UF	ug/L	8	0	(0.09)	(0.89)	(1)	5	NMGSU
CDBO-6	34	Voa	Dichloroethene[cis-1,2-]	UF	ug/L	5	0	(1)	(1)	(1)	70	MCL
CDBO-6	34	Voa	Dichloroethene[trans-1,2-]	UF	ug/L	8	0	(0.105)	(0.89)	(1)	100	MCL
CDBO-6	34	Voa	Dichloropropane[1,2-]	UF	ug/L	8	0	(0.07)	(0.88)	(1)	5	MCL
CDBO-6	34	Voa	Dichloropropane[1,3-]	UF	ug/L	7	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Dichloropropane[2,2-]	UF	ug/L	7	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Dichloropropene[1,1-]	UF	ug/L	7	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Dichloropropene[cis-1,3-]	UF	ug/L	8	0	(0.035)	(0.88)	(1)		
CDBO-6	34	Voa	Dichloropropene[trans-1,3-]	UF	ug/L	8	0	(0.106)	(0.89)	(1)		
CDBO-6	34	Voa	Diethyl Ether	UF	ug/L	2	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Ethyl Methacrylate	UF	ug/L	5	0	(5)	(5)	(5)	547.5	Reg6
CDBO-6	34	Voa	Ethylbenzene	F	ug/L	1	0	(1)	(1)	(1)	700	MCL
CDBO-6	34	Voa	Ethylbenzene	UF	ug/L	8	0	(0.051)	(0.88)	(1)	700	MCL
CDBO-6	34	Voa	Hexachlorobutadiene	UF	ug/L	7	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Hexanone[2-]	UF	ug/L	7	0	(5)	(5)	(5)		
CDBO-6	34	Voa	Iodomethane	UF	ug/L	7	0	(5)	(5)	(5)		
CDBO-6	34	Voa	Isobutyl alcohol	UF	ug/L	3	0	(50)	(50)	(50)	1825	Reg6
CDBO-6	34	Voa	Isopropylbenzene	UF	ug/L	7	0	(1)	(1)	(1)	658.2	Reg6
CDBO-6	34	Voa	Isopropyltoluene[4-]	UF	ug/L	7	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Methacrylonitrile	UF	ug/L	5	0	(5)	(5)	(5)	1.043	Reg6
CDBO-6	34	Voa	Methyl Methacrylate	UF	ug/L	5	0	(5)	(5)	(5)	1419.4	Reg6
CDBO-6	34	Voa	Methyl tert-Butyl Ether	UF	ug/L	2	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Methyl-2-pentanone[4-]	UF	ug/L	7	0	(5)	(5)	(5)	1990.91	Reg6
CDBO-6	34	Voa	Methylene Chloride	F	ug/L	1	0	(5)	(5)	(5)	5	MCL
CDBO-6	34	Voa	Methylene Chloride	UF	ug/L	8	0	(0.971)	(4.5)	(5)	5	MCL
CDBO-6	34	Voa	Naphthalene	F	ug/L	1	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Naphthalene	UF	ug/L	5	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Propionitrile	UF	ug/L	3	0	(5)	(5)	(5)		
CDBO-6	34	Voa	Propylbenzene[1-]	UF	ug/L	7	0	(1)	(1)	(1)	60.83	Reg6
CDBO-6	34	Voa	Styrene	UF	ug/L	7	0	(1)	(1)	(1)	100	MCL
CDBO-6	34	Voa	Tetrachloroethane[1,1,1,2-]	F	ug/L	1	0	(1)	(1)	(1)	25.496	Reg6
CDBO-6	34	Voa	Tetrachloroethane[1,1,1,2-]	UF	ug/L	7	0	(1)	(1)	(1)	25.496	Reg6
CDBO-6	34	Voa	Tetrachloroethane[1,1,2,2-]	F	ug/L	1	0	(1)	(1)	(1)	3.31	Reg6
CDBO-6	34	Voa	Tetrachloroethane[1,1,2,2-]	UF	ug/L	8	0	(0.273)	(0.91)	(1)	10	NMGSU
CDBO-6	34	Voa	Tetrachloroethene	UF	ug/L	8	0	(0.385)	(0.92)	(1)	5	MCL

CDBO-6	34	Voa	Toluene	F	ug/L	1	0	(1)	(1)	(1)	1000	MCL
CDBO-6	34	Voa	Toluene	UF	ug/L	8	0	(0.262)	(0.91)	(1)	750	NMGSU
CDBO-6	34	Voa	Trichloro-1,2,2-trifluoroethane[1,1,2-]	UF	ug/L	7	0	(5)	(5)	(5)	59179.9	Reg6
CDBO-6	34	Voa	Trichlorobenzene[1,2,3-]	UF	ug/L	3	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Trichlorobenzene[1,2,4-]	UF	ug/L	5	0	(1)	(1)	(1)		
CDBO-6	34	Voa	Trichloroethane[1,1,1-]	F	ug/L	1	0	(1)	(1)	(1)	200	MCL
CDBO-6	34	Voa	Trichloroethane[1,1,1-]	UF	ug/L	8	0	(0.093)	(0.89)	(1)	60	NMGSU
CDBO-6	34	Voa	Trichloroethane[1,1,2-]	F	ug/L	1	0	(1)	(1)	(1)	5	MCL
CDBO-6	34	Voa	Trichloroethane[1,1,2-]	UF	ug/L	8	0	(0.193)	(0.899)	(1)	5	MCL
CDBO-6	34	Voa	Trichloroethene	F	ug/L	1	0	(1)	(1)	(1)	5	MCL
CDBO-6	34	Voa	Trichloroethene	UF	ug/L	8	1	0.3	0.3	0.3	5	MCL
CDBO-6	34	Voa	Trichlorofluoromethane	UF	ug/L	8	0	(0.057)	(0.88)	(1)	5	MCL
CDBO-6	34	Voa	Trichloropropane[1,2,3-]	UF	ug/L	7	0	(1)	(1)	(1)	0.095	Reg6
CDBO-6	34	Voa	Trimethylbenzene[1,2,4-]	UF	ug/L	7	0	(1)	(1)	(1)	12.43	Reg6
CDBO-6	34	Voa	Trimethylbenzene[1,3,5-]	UF	ug/L	7	0	(1)	(1)	(1)	12.33	Reg6
CDBO-6	34	Voa	Vinyl acetate	UF	ug/L	5	0	(5)	(5)	(5)	412.43	Reg6
CDBO-6	34	Voa	Vinyl Chloride	F	ug/L	1	0	(1)	(1)	(1)	2	MCL
CDBO-6	34	Voa	Vinyl Chloride	UF	ug/L	8	0	(0.096)	(0.89)	(1)	1	NMGSU
CDBO-6	34	Voa	Xylene (Total)	F	ug/L	1	0	(3)	(3)	(3)	10000	MCL
CDBO-6	34	Voa	Xylene (Total)	UF	ug/L	2	0	(3)	(3)	(3)	10000	MCL
CDBO-6	34	Voa	Xylene[1,2-]	UF	ug/L	7	0	(1)	(1)	(1)	1431.37	Reg6
CDBO-6	34	Voa	Xylene[1,3-]+Xylene[1,4-]	UF	ug/L	7	0	(2)	(2)	(2)		

Notes: Values in parentheses are nondetected values. Highlighted values are lower than applicable standard. Blank cells indicate no applicable standard.