

TABLE 5-7
PRE-IRRIGATION INORGANIC RESULTS

Location		CPT-01S	CPT-02S	CPT-03S	CPT-04S	CPT-05S	CPT-06S	CPT-07S
Sample Date		20-Mar-07	20-Mar-07	22-Mar-07	21-Mar-07	22-Mar-07	21-Mar-07	22-Mar-07
Parameter	Units							
Alkalinity, Bicarb (as CaCO ₃)	mg/L	262	261	347	NA	NA	NA	190
Alkalinity, Carbonate (as CO ₃)	mg/L	<2.	<2.	<2.	NA	NA	NA	<2.
Alkalinity, Hydroxide	mg/L	<2.	<2.	<2.	NA	NA	NA	<2.
Alkalinity, Total (as CaCO ₃)	mg/L	262	261	347	NA	NA	NA	190
Bromide	mg/L	<1.	1.07	<1.	NA	NA	NA	<1.
Chloride	mg/L	82.8	79.2	105	53.7	25	68.7	71.7
Fluoride	mg/L	1.27	1.23	<1.	NA	NA	NA	<1.
Iodide	mg/L	<1.	<1.	<1.	NA	NA	NA	<1.
Nitrogen, Nitrate (As N)	mg/L	8.72	7.46	19.5	NA	NA	NA	1.38
Nitrogen, Nitrite (As N)	mg/L	<2.	<2.	<1.	NA	NA	NA	<1.
Ortho-Phosphate (as P)	mg/L	<0.05	<0.05	0.092	NA	NA	NA	<0.05
Sulfate	mg/L	444	496	764	427	125	304	298
Total Dissolved Solids	mg/L	1320	1400	2080	1120	566	980	1030

Location		CPT-14S	CPT-15S	CPT-16S	CPT-17S	CPT-18S	CPT-19S	CPT-20S
Sample Date		21-Mar-07	22-Mar-07	13-Mar-07	13-Mar-07	20-Mar-07	20-Mar-07	20-Mar-07
Parameter	Units							
Alkalinity, Bicarb (as CaCO ₃)	mg/L	166	NA	276	207	NA	223	380
Alkalinity, Carbonate (as CO ₃)	mg/L	<2.	NA	<2.	<2.	NA	<2.	<2.
Alkalinity, Hydroxide	mg/L	<2.	NA	<2.	<2.	NA	<2.	<2.
Alkalinity, Total (as CaCO ₃)	mg/L	166	NA	276	207	NA	223	380
Bromide	mg/L	<1.	NA	0.617	0.776	NA	<1.	<1.
Chloride	mg/L	31.7	24.2	88.5	102	86.4	69.1	94.5
Fluoride	mg/L	<1.	NA	<0.5	<0.5	NA	1.18	<1.
Iodide	mg/L	<1.	NA	<1.	<1.	NA	<1.	<1.
Nitrogen, Nitrate (As N)	mg/L	2.81 J	NA	17.2 J	21.9 J	NA	3.29	18.3
Nitrogen, Nitrite (As N)	mg/L	<1.	NA	<1.	<1.	NA	<2.	<2.
Ortho-Phosphate (as P)	mg/L	0.142	NA	0.0568	0.0853	NA	0.0786	0.0552
Sulfate	mg/L	112	226	776	793	791	349	768
Total Dissolved Solids	mg/L	522	769	1800	1820	2000	1110	2140

Location		CPT-26D	CPT-26S	CPT-27S	CPT-28S	CPT-29D	CPT-29S	CPT-30S
Sample Date		19-Mar-07	19-Mar-07	20-Mar-07	19-Mar-07	23-Mar-07	23-Mar-07	23-Mar-07
Parameter	Units							
Alkalinity, Bicarb (as CaCO ₃)	mg/L	356	NA	NA	NA	291	NA	306

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Alkalinity, Carbonate (as CO ₃)	mg/L	<2.	NA	NA	NA	<2.	NA	<2.
Alkalinity, Hydroxide	mg/L	<2.	NA	NA	NA	<2.	NA	<2.
Alkalinity, Total (as CaCO ₃)	mg/L	356	NA	NA	NA	291	NA	306
Bromide	mg/L	1.12	NA	NA	NA	<1.	NA	1.05
Chloride	mg/L	150	121	137	107	97	126	143
Fluoride	mg/L	2.76	NA	NA	NA	<1.	NA	<1.
Iodide	mg/L	<1.	NA	NA	NA	<1.	NA	<1.
Nitrogen, Nitrate (As N)	mg/L	15.6 J	NA	NA	NA	10.9	NA	21.6
Nitrogen, Nitrite (As N)	mg/L	<2.5	NA	NA	NA	<1.	NA	<2.
Ortho-Phosphate (as P)	mg/L	0.0619	NA	NA	NA	0.122	NA	0.0869
Sulfate	mg/L	1240	1020	1230	692	810	1050	1090
Total Dissolved Solids	mg/L	3100	2450	2850	2140	2130	2630	2840

Notes:

Value exceeds UTL

mg/l = milligrams per liter

J = estimated value

Location		CPT-35S	CPT-36S	CPT-37S	CPT-38S	CPT-41D	CPT-41S	CPT-43S
Sample Date		21-Mar-07	23-Mar-07	12-Mar-07	12-Mar-07	19-Mar-07	19-Mar-07	23-Mar-07
Parameter	Units							
Alkalinity, Bicarb (as CaCO ₃)	mg/L	NA	NA	337	351	NA	NA	353
Alkalinity, Carbonate (as CO ₃)	mg/L	NA	NA	<2.	<2.	NA	NA	<2.
Alkalinity, Hydroxide	mg/L	NA	NA	<2.	<2.	NA	NA	<2.
Alkalinity, Total (as CaCO ₃)	mg/L	NA	NA	337	351	NA	NA	353
Bromide	mg/L	NA	NA	0.784	0.974	NA	NA	<1.
Chloride	mg/L	62.5	92.7	120	152	104	135	120
Fluoride	mg/L	NA	NA	0.625	3.88	NA	NA	<1.
Iodide	mg/L	NA	NA	<1.	1.08	NA	NA	<1.
Nitrogen, Nitrate (As N)	mg/L	NA	NA	16.6	15.6	NA	NA	25
Nitrogen, Nitrite (As N)	mg/L	NA	NA	<2.	<2.	NA	NA	<2.5
Ortho-Phosphate (as P)	mg/L	NA	NA	0.0568	0.0702	NA	NA	0.1
Sulfate	mg/L	392	836	1050	1300	1060	1620	1430
Total Dissolved Solids	mg/L	1410	2090	2370	2790	2460	3530	3400

Location		CPT-47S	CPT-48S	CPT-49S	CPT-50S	CPT-51S	CPT-52S	CPT-53S
Sample Date		12-Mar-07	20-Mar-07	20-Mar-07	20-Mar-07	22-Mar-07	22-Mar-07	20-Mar-07
Parameter	Units							
Alkalinity, Bicarb (as CaCO ₃)	mg/L	351	456	NA	NA	213	NA	219
Alkalinity, Carbonate (as CO ₃)	mg/L	<2.	<2.	NA	NA	<2.	NA	<2.
Alkalinity, Hydroxide	mg/L	<2.	<2.	NA	NA	<2.	NA	<2.
Alkalinity, Total (as CaCO ₃)	mg/L	351	456	NA	NA	213	NA	219

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Bromide	mg/L	0.649	1.64	NA	NA	<1.	NA	<1.
Chloride	mg/L	92.5	226	57.6	206	102	103	45.2
Fluoride	mg/L	0.813	<1.	NA	NA	<1.	NA	<1.
Iodide	mg/L	1.48	<1.	NA	NA	<1.	NA	<1.
Nitrogen, Nitrate (As N)	mg/L	10.2	13.6	NA	NA	23.3	NA	<2.
Nitrogen, Nitrite (As N)	mg/L	<2.	<2.	NA	NA	2.15	NA	<2.
Ortho-Phosphate (as P)	mg/L	0.0568	0.0685	NA	NA	<0.05	NA	0.0535
Sulfate	mg/L	605	1850	405	1760	927	1010	1100
Total Dissolved Solids	mg/L	1590	4470	1460	3990	2530	2450	2310

Location		CPT-58S	CPT-59S	CPT-60S	CPT-61S	CPT-62S	CPT-63S	CPT-64S
Sample Date		20-Mar-07	22-Mar-07	22-Mar-07	21-Mar-07	21-Mar-07	19-Mar-07	22-Mar-07
Parameter	Units							
Alkalinity, Bicarb (as CaCO ₃)	mg/L	214	NA	361	NA	328	NA	394
Alkalinity, Carbonate (as CO ₃)	mg/L	<2.	NA	<2.	NA	<2.	NA	<2.
Alkalinity, Hydroxide	mg/L	<2.	NA	<2.	NA	<2.	NA	<2.
Alkalinity, Total (as CaCO ₃)	mg/L	214	NA	361	NA	328	NA	394
Bromide	mg/L	<1.	NA	<1.	NA	<1.	NA	1.34
Chloride	mg/L	70.3	81.9	104	213	85.7	93.9	246
Fluoride	mg/L	<1.	NA	<1.	NA	1.09	NA	<1.
Iodide	mg/L	<1.	NA	<1.	NA	<1.	NA	<1.
Nitrogen, Nitrate (As N)	mg/L	6.62	NA	7.74	NA	6.16 J	NA	73.5
Nitrogen, Nitrite (As N)	mg/L	<2.	NA	2.03	NA	<1.	NA	2.36
Ortho-Phosphate (as P)	mg/L	<0.05	NA	<0.05	NA	<0.05	NA	0.167
Sulfate	mg/L	1350	392	1270	1520	1790	750	761
Total Dissolved Solids	mg/L	2850	1400	2880	3310	3450	2080	3010

Notes:

Value exceeds UTL

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Location		CPT-70S	CPT-71S	CPT-72S	CPT-74S	CPT-84S	CPT-85S	CPT-86S
Sample Date		22-Mar-07	12-Mar-07	22-Mar-07	20-Mar-07	20-Mar-07	23-Mar-07	20-Mar-07
Parameter	Units							
Alkalinity, Bicarb (as CaCO ₃)	mg/L	NA	308	388	NA	325	450	271
Alkalinity, Carbonate (as CO ₃)	mg/L	NA	<2.	<2.	NA	<2.	<2.	<2.
Alkalinity, Hydroxide	mg/L	NA	<2.	<2.	NA	<2.	<2.	<2.
Alkalinity, Total (as CaCO ₃)	mg/L	NA	308	388	NA	325	450	271
Bromide	mg/L	NA	0.504	1.15	NA	1.11	<1.	<1.
Chloride	mg/L	68.7	82.6	136	325	122	121	117
Fluoride	mg/L	NA	3.54	<1.	NA	<1.	<1.	<1.

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Iodide	mg/L	NA	2.8	<1.	NA	<1.	<1.	<1.
Nitrogen, Nitrate (As N)	mg/L	NA	6.7	20.4	NA	14.1	22	34.7
Nitrogen, Nitrite (As N)	mg/L	NA	<2.	<1.	NA	<2.	<1.	<2.
Ortho-Phosphate (as P)	mg/L	NA	0.0535 J	<0.05	NA	<0.05	<0.05	<0.05
Sulfate	mg/L	634	1370	788	1360	1980	1400	1500
Total Dissolved Solids	mg/L	2080	2720	2330	3940	3910	3450	3390

Location		CPT-91S	H100	H101	H34	H38	H52/57	H61
Sample Date		21-Mar-07	12-Mar-07	23-Mar-07	23-Mar-07	19-Mar-07	19-Mar-07	19-Mar-07
Parameter	Units							
Alkalinity, Bicarb (as CaCO ₃)	mg/L	370	318	391	291	178	NA	NA
Alkalinity, Carbonate (as CO ₃)	mg/L	<2.	<2.	<2.	<2.	<2.	NA	NA
Alkalinity, Hydroxide	mg/L	<2.	<2.	<2.	<2.	<2.	NA	NA
Alkalinity, Total (as CaCO ₃)	mg/L	370	318	391	291	178	NA	NA
Bromide	mg/L	<1.	0.561	<1.	<1.	<0.5	NA	NA
Chloride	mg/L	114	112	95.3	81.8	2.41	97.3	95.5
Fluoride	mg/L	<1.	3.92	<1.	<1.	0.966	NA	NA
Iodide	mg/L	<1.	<1.	<1.	<1.	<1.	NA	NA
Nitrogen, Nitrate (As N)	mg/L	7.37 J	7.79	12.3	15.2	2.03 J	NA	NA
Nitrogen, Nitrite (As N)	mg/L	1.44 J	<2.	<1.	<1.	<0.5	NA	NA
Ortho-Phosphate (as P)	mg/L	<0.05	<0.05	<0.05	<0.05	0.0535	NA	NA
Sulfate	mg/L	1980	1480	1340	719	25.4	1060	946
Total Dissolved Solids	mg/L	3820	3240	3120	1980	251	2430	2270

Location		I32	L59	WMSWP	Gas Well #18
Sample Date		12-Mar-07	23-Mar-07	18-Apr-07	18-Apr-07
Parameter	Units				
Alkalinity, Bicarb (as CaCO ₃)	mg/L	307	280	164	831
Alkalinity, Carbonate (as CO ₃)	mg/L	<2.	<2.	<2.	<2.
Alkalinity, Hydroxide	mg/L	<2.	<2.	<2.	<2.
Alkalinity, Total (as CaCO ₃)	mg/L	307	280	164	831
Bromide	mg/L	1.07	<1.	<1.	15
Chloride	mg/L	161	91.8	33	1,260
Fluoride	mg/L	0.72	<1.	<1.	<12.5
Iodide	mg/L	<1.	<1.	<1.	<1.
Nitrogen, Nitrate (As N)	mg/L	3.23	11.5	2.6	<12.5
Nitrogen, Nitrite (As N)	mg/L	<2.	<2.	<0.5	<12.5
Ortho-Phosphate (as P)	mg/L	<0.05	<0.05	0.065	<0.05
Sulfate	mg/L	1,150	927	199	329
Total Dissolved Solids	mg/L	2,580	2,350	671	3,860

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Notes:

Value exceeds UTL

mg/l = milligrams per liter

J = estimated value

TABLE 5-7
PRE-IRRIGATION INORGANIC RESULTS

	CPT-09S	CPT-10S	CPT-11S	CPT-12S	CPT-13S
	21-Mar-07	21-Mar-07	21-Mar-07	21-Mar-07	13-Mar-07
	NA	NA	147	NA	145
	NA	NA	<2.	NA	<2.
	NA	NA	<2.	NA	<2.
	NA	NA	147	NA	145
	NA	NA	<1.	NA	<0.5
	26.7	36.2	13.6	32.7	22.6
	NA	NA	<1.	NA	0.589
	NA	NA	<1.	NA	<1.
	NA	NA	1.68	NA	2.48 J
	NA	NA	<1.	NA	<0.5
	NA	NA	<0.05	NA	0.0585
	130	378	99.6	184	191
	516	966	461	639	544

	CPT-21S	CPT-22S	CPT-23S	CPT-24S	CPT-25S
	13-Mar-07	22-Mar-07	19-Mar-07	13-Mar-07	12-Mar-07
	337	171	NA	237	315
	<2.	<2.	NA	<2.	<2.
	<2.	<2.	NA	<2.	<2.
	337	171	NA	237	315
	1.16	<1.	NA	0.529	1.36
	146	17.7	157	72.8	215
	4.21	<1.	NA	<0.5	4.29
	<1.	<1.	NA	<1.	<1.
	34.1	2.37	NA	10.2 J	30.3
	<1.	<1.	NA	<1.	<2.
	0.0736	0.176	NA	0.0936	0.0552
	1360	174	1160	640	1560
	2940	668	2960	1460	3330

	CPT-31S	CPT-32S	CPT-33S	CPT-34S	CPT-35D
	21-Mar-07	13-Mar-07	22-Mar-07	20-Mar-07	21-Mar-07
	NA	188	NA	NA	NA

TABLE 5-7
PRE-IRRIGATION INORGANIC RESULTS

	NA	<2.	NA	NA	NA
	NA	<2.	NA	NA	NA
	NA	188	NA	NA	NA
	NA	0.798	NA	NA	NA
	75.8	102	35.9	229	94.9
	NA	0.802	NA	NA	NA
	NA	<1.	NA	NA	NA
	NA	18.1 J	NA	NA	NA
	NA	<1.	NA	NA	NA
	NA	0.142	NA	NA	NA
	729	743	187	1300	811
	1770	1760	732	3170	1930

< indicates nondetect at the associated reporting limit

	CPT-44S	CPT-45D	CPT-45S	CPT-46D	CPT-46S
	23-Mar-07	21-Mar-07	21-Mar-07	23-Mar-07	23-Mar-07
	NA	295	NA	274	NA
	NA	<2.	NA	<2.	NA
	NA	<2.	NA	<2.	NA
	NA	295	NA	274	NA
	NA	<1.	NA	<1.	NA
	163	105	163	89.2	121
	NA	<1.	NA	<1.	NA
	NA	<1.	NA	<1.	NA
	NA	9.18 J	NA	7.38	NA
	NA	<1.	NA	<1.	NA
	NA	<0.05	NA	0.109	NA
	1480	1010	2020	864	1600
	3400	2260	4270	2130	3590

	CPT-54S	CPT-55S	CPT-56S	CPT-57R	CPT-57S
	23-Mar-07	22-Mar-07	22-Mar-07	21-Mar-07	21-Mar-07
	349	NA	358	NA	NA
	<2.	NA	<2.	NA	NA
	<2.	NA	<2.	NA	NA
	349	NA	358	NA	NA

TABLE 5-7
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	<1.	NA	1.06	NA	NA
	82.1	136	82.8	105	161
	1.22	NA	<1.	NA	NA
	<1.	NA	<1.	NA	NA
	6.22	NA	12.9	NA	NA
	<1.	NA	<1.	NA	NA
	0.105	NA	0.0736	NA	NA
	1730	968	662	2030	1810
	3620	2700	1930	3930	3840

	CPT-65S	CPT-66S	CPT-67S	CPT-68S	CPT-69S
	23-Mar-07	20-Mar-07	22-Mar-07	23-Mar-07	22-Mar-07
	383	271	NA	NA	296
	<2.	<2.	NA	NA	<2.
	<2.	<2.	NA	NA	<2.
	383	271	NA	NA	296
	<1.	<1.	NA	NA	<1.
	115	86.8	79.6	80.8	80.2
	<1.	<1.	NA	NA	<1.
	<1.	<1.	NA	NA	<1.
	9.81	11.6	NA	NA	6.67
	2.33	<2.	NA	NA	1.98
	0.0953	0.0669	NA	NA	0.147
	1780	791	422	753	402
	3790	2060	1260	2110	1360

< indicates nondetect at the associated reporting limit

	CPT-87S	CPT-88S	CPT-89S	CPT-8S	CPT-90S
	22-Mar-07	21-Mar-07	22-Mar-07	21-Mar-07	22-Mar-07
	NA	190	342	198	NA
	NA	<2.	<2.	<2.	NA
	NA	<2.	<2.	<2.	NA
	NA	190	342	198	NA
	NA	<1.	<1.	<1.	NA
	119	32.5	128	36	22.8
	NA	1.01	<1.	<1.	NA

**TABLE 5-7
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	NA	<1.	<1.	<1.	NA
	NA	2.83 J	10.8	1.8	NA
	NA	<1.	<1.	<1.	NA
	NA	0.0619	0.0719	<0.05	NA
	1180	166	1190	202	230
	2930	606	2830	706	737

	H62/63	H64/65	H66	H67	H98
	19-Mar-07	19-Mar-07	19-Mar-07	23-Mar-07	23-Mar-07
	326	305	351	340	284
	<2.	<2.	<2.	<2.	<2.
	<2.	<2.	<2.	<2.	<2.
	326	305	351	340	284
	0.658	0.619	0.693	1.12	<1.
	93.3	87.6	96.2	156	117
	2.44	2.36	3.85	<1.	<1.
	<1.	<1.	<1.	<1.	<1.
	9.29	9.04	12.7	21.1	21.6
	<2.5	<2.5	<2.5	<2.	<1.
	<0.05	<0.05	<0.05	<0.05	<0.05
	1220	1070	1250	1420	1490
	2730	2380	2920	3490	3380

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< indicates nondetect at the associated reporting limit