

May 31, 2007

Mr. Mark Riggle  
Project Manager  
Voluntary Cleanup Section  
Texas Commission on Environmental Quality  
Mail Code 221  
12118 North IH 35, Building D  
Austin, Texas 78753

Project No. 0065341

Subject: First Half 2007 Monitoring Data Transmittal  
Former Cameron Iron Works Facility, Houston, Texas  
VCP No. 221

Dear Mr. Riggle:

On behalf of Cameron International Corporation (Cameron), Environmental Resources Management Southwest, Inc. (ERM) is providing this transmittal of ground water and surface water data collected during the First Half 2007 Monitoring Event at the Former Cameron Iron Works Facility, Houston, Texas (the facility) for your records. In a March 22, 2004 comment letter, the Texas Commission on Environmental Quality (TCEQ) approved a semiannual ground water monitoring program as part of the response action for the facility. In some instances, quarterly monitoring is used to track upward trends in concentrations. The objective of this transmittal is to determine if additional ground water or surface water samples should be collected during the next quarter (July 2007) at selected locations to meet the response action objectives for the facility.

A semiannual ground water and surface water sampling schedule was initiated in September 2003. The data from this event is the eighth semiannual monitoring event since September 2003. A detailed monitoring report for the ground water and surface water analytical data collected during 2007 will be provided to the TCEQ approximately two months after the final laboratory reports are received.

Attachment 1 provides a summary of the ground water and surface water analytical data that were collected during the first half of 2007. A review of the volatile organic ground water data for those wells outside the plume boundaries south of the facility (Table 1) indicates that the ground water concentrations remain below the Method Quantitation Limits (MQL) and Protective Concentration Levels (PCL) with the exception of samples collected at MW-70, MW-78, MW-79, MW-93, MW-96, and MW-125.

#### **MW-70**

The reported concentrations of 1,1-dichloroethene (1,1-DCA) (0.0075 mg/L) and cis-1,2-dichloroethene (cis-1,2-DCE) (0.0055 mg/L) in ground water were reported above the MQL, but below the respective PCLs (Attachment 1, Table 1) at MW-70. Trichloroethene (TCE) was reported estimated below the MQL (0.0016 mg/L). A ground water sample will be collected at MW-70 during July 2007 to meet the quarterly sampling requirements approved by the TCEQ on November 6, 2006.

#### **MW-78**

1,1-dichloroethene (1,1-DCE) was reported at 0.13 mg/L, above the MQL and the PCL (Attachment 1, Table 1) for MW-78 on April 24, 2007. This is the third sampling event with a reported concentration of 1,1-DCE above the MQL in a ground water sample collected at MW-78. In addition, 1,1-DCA was reported at 0.016 mg/L, above the MQL but below the PCL (Attachment 1, Table 1) for MW-78.

#### **MW-79**

1,1-DCE was reported at 0.041 mg/L, above the MQL and the PCL (Attachment 1, Table 1) for MW-79 on April 24, 2007. This is the first sampling event with a reported concentration of 1,1-DCE above the MQL in a ground water sample collected at MW-79. A confirmation sample collected on May 21, 2007 had a reported concentration of 0.039 mg/L, which exceeds the MQL and PCL. In addition, 1,1-DCA was reported as estimated (0.0011 mg/L) below the MQL of 4.9 mg/L during confirmation sampling event.

#### **MW-96**

1,1-DCE was reported at 0.015 mg/L, above the MQL and the PCL (Attachment 1, Table 1) for MW-96 on April 26, 2007. This is the third sampling event with a reported concentration of 1,1-DCE above the MQL in a ground water sample collected at MW-96.

For the response action in the area of MW-78, MW-79, and MW-96, Cameron proposes to monitor the ground water concentrations at MW-78, MW-79, and MW-96 quarterly until concentrations are below the MQLs. If concentrations are above the PCLs for four consecutive quarters, then notification letters will be sent to the appropriate property owners. In addition, Cameron is presently delineating the affected ground water in this area and planning an aggressive response action (i.e. in-situ chemical oxidation) to address the detections of 1,1-DCE in the vicinity of MW-78, MW-79 and MW-96.

#### **MW-93 and MW-125**

Tetrachloroethene (PCE) has been reported above the MQL and PCL for the samples collected at MW-93 and MW-125 for each quarterly event since September 2005. The injection of permanganate was performed at the injection wells IW-49 on March 27, 2007 and IW-47 on April 2, 2007, in the area of MW-93 and MW-125 as the response action approved by the TCEQ on August 31, 2006. The reported concentrations of PCE in this area appear to be stable. As part of the response action in the area of MW-93, ground water samples will continue to be

collected at MW-93 and MW-125 quarterly and the presence of permanganate in the injection wells (IW-47 through IW-52) will be monitored monthly.

Table 2 is a summary of the analytical results for samples collected north of I-10 and within the plume boundaries south of I-10 during the first half of 2007.

The reported surface water concentrations, summarized on Table 3, are below the critical PCLs provided in the *Human Health and Ecological Risk Assessment for Surface Water and Sediment*, dated June 19, 2003 and 80% of the Critical PCLs.

The quality assurance/quality control data and analytical laboratory reports will be provided in the 2007 Annual Ground Water Monitoring Report and Field Activities Summary, which should be submitted to your attention in January 2008.

Please contact Mr. Ted Fasting of Cameron International Corporation at (713) 513-3325 with any questions or comments.

Sincerely,

Environmental Resources Management



Gregory J. Wheeler, P.G.

GJW/mnt  
Attachment

cc: Ted Fasting, Cameron International Corporation  
Bruce Himmelreich, Cameron International Corporation, (without attachment)  
Paul Stefan, Environmental Resources Management (Houston)  
Marsha Hill, Texas Commission on Environmental Quality, Region X II  
Scott Leafe, SKA Consulting

**Tables**  
*Attachment 1*

*May 31, 2007*  
*Project No. 0065341*

**Environmental Resources Management**  
15810 Park Ten Place, Suite 300  
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TABLE 1

Summary of Monitor Well Ground Water Data for Trigger Wells  
First Half 2007 Monitoring Data Transmittal

Former Cameron Iron Works Facility  
Houston, Texas

Constituent	MQL	Critical PCLs (a)	Location:																	
			MW-70		MW-71		MW-72		MW-74		MW-77		MW-78		MW-79		MW-80		MW-81	
			Depth: (b)	25	25	24	27	30	26	33	31	28								
Date:	04/24/2007	04/24/2007	04/26/2007	04/25/2007	04/24/2007	04/24/2007	04/24/2007	5/21/2007	04/24/2007	04/24/2007										
1,1-Dichloroethane	0.0050	4.9	<b>0.0075</b>	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	<b>0.016</b>	ND (0.0050)	0.0011 J	ND (0.0050)	ND (0.0050)							
1,1-Dichloroethene	0.0050	0.0070	ND (0.0050)	0.0013 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	<b>0.13</b>	<b>0.041</b>	<b>0.039</b>	ND (0.0050)	ND (0.0050)							
1,2-Dichloroethane	0.0050	0.0050	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)							
cis-1,2-Dichloroethene	0.0050	0.070	<b>0.0055</b>	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0040 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)							
Tetrachloroethene	0.0050	0.0050	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)							
Trichloroethene	0.0050	0.0050	0.0016 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)							
Vinyl Chloride	0.0020	0.0020	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.00079 J	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)							

  

Constituent	MQL	Critical PCLs (a)	Location:																			
			MW-84		MW-85R		MW-86		MW-93		MW-95		MW-96		MW-97		MW-98		MW-117		MW-119	
			Depth: (b)	31	29	33	43	30	33	38	36	25	28									
Date:	04/27/2007	04/24/2007	04/24/2007	04/25/2007	04/26/2007	04/26/2007	04/26/2007	04/26/2007	04/26/2007	04/24/2007	04/26/2007											
1,1-Dichloroethane	0.0050	4.9	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)		
1,1-Dichloroethene	0.0050	0.0070	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	<b>0.015</b>	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)		
1,2-Dichloroethane	0.0050	0.0050	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)		
cis-1,2-Dichloroethene	0.0050	0.070	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)		
Tetrachloroethene	0.0050	0.0050	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)		
Trichloroethene	0.0050	0.0050	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)		
Vinyl Chloride	0.0020	0.0020	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)		

  

Constituent	MQL	Critical PCLs (a)	Location:									
			MW-122		MW-123		MW-125		MW-126		MW-131	
			Depth: (b)	28	27.5	32	25	25				
Date:	04/26/2007	04/23/2007	04/26/2007	04/25/2007	04/26/2007							
1,1-Dichloroethane	0.0050	4.9	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)		
1,1-Dichloroethene	0.0050	0.0070	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)		
1,2-Dichloroethane	0.0050	0.0050	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)		
cis-1,2-Dichloroethene	0.0050	0.070	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)		
Tetrachloroethene	0.0050	0.0050	ND (0.0050)	0.0020 J	<b>0.014</b>	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)		
Trichloroethene	0.0050	0.0050	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)		
Vinyl Chloride	0.0020	0.0020	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)		

NOTES:

The reported concentrations are in mg/L.

**0.01** = exceedance of TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Ground Water critical PCLs.

**Bold** values exceed the MQL.

ND (0.0050) = *Not Detected* at the method quantitation limit given in parentheses.

MQL = Method Quantitation Limit.

(a) TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Ground Water PCLs, 30-acre source area, Table 3, table for TRRP Rule dated April 20, 2007.

(b) The sample depths are reported in feet below ground surface.

J = Estimated data, the reported sample concentration is approximated due to exceedance of QC requirements.

TABLE 2

Summary of Monitor Well Ground Water Data  
First Half 2007 Monitoring Data Transmittal

Former Cameron Iron Works Facility  
Houston, Texas

Constituent	Critical PCLs (a)	Location:	KMW-01 (c)	KMW-07	KMW-13	KMW-14	MW-01 (c)	MW-02	MW-07R	MW-15R	MW-16R	MW-17R	
		Depth: (b)	25	25	25	25	25	25	25	25	20	20	20
		Date:	4/23/2007	04/24/2007	04/24/2007	04/24/2007	4/23/2007	04/23/2007	04/25/2007	04/25/2007	04/25/2007	04/25/2007	
1,1-Dichloroethane	4.9	NS	NA	NA	NA	NS	NA	NA	NA	0.023	0.028	ND (0.0050)	
1,1-Dichloroethene	0.0070	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	NS	ND (0.0050)	0.023	0.063	0.062	0.062	ND (0.0050)	
1,2-Dichloroethane	0.0050	NS	NA	NA	NA	NS	NA	NA	NA	ND (0.0050)	ND (0.0050)	ND (0.0050)	
cis-1,2-Dichloroethene	0.070	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.015	0.010	ND (0.0050)	
Tetrachloroethene	0.0050	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.021	0.0048 J	ND (0.0050)	
Trichloroethene	0.0050	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0063	0.010	ND (0.0050)	
Vinyl Chloride	0.0020	NS	ND (0.0020)	ND (0.0020)	ND (0.0020)	NS	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	

Constituent	Critical PCLs (a)	Location:	MW-35 (c)	MW-42 (d)	MW-44 (e)	MW-48	MW-50	MW-52	MW-54	MW-59	MW-60	MW-61
		Depth: (b)	26	23	25	23	25	25	23	25	34	23
		Date:	4/23/2007	4/23/2007	4/23/2007	04/23/2007	04/24/2007	04/25/2007	04/24/2007	04/26/2007	04/26/2007	04/25/2007
1,1-Dichloroethane	4.9	NS	NS	NS	NA	NA	NA	NA	NA	ND (0.0050)	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.0070	NS	NS	NS	1.6	17	0.080	0.35	0.35	ND (0.0050)	ND (0.0050)	ND (0.0050)
1,2-Dichloroethane	0.0050	NS	NS	NS	NA	NA	NA	NA	NA	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.070	NS	NS	NS	0.038	0.37	ND (0.0050)	7.2	7.2	ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050	NS	NS	NS	0.13	0.058	ND (0.0050)	0.21	0.21	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050	NS	NS	NS	0.014	0.28	ND (0.0050)	1.2	1.2	ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0020	NS	NS	NS	0.095	3.8	ND (0.0020)	0.26	0.26	ND (0.0020)	ND (0.0020)	ND (0.0020)

Constituent	Critical PCLs (a)	Location:	MW-62	MW-64	MW-65	MW-73	MW-75R	MW-76	MW-82	MW-83	MW-87	MW-88 (f)
		Depth: (b)	25	25	25	25	33	31	31	30	32	38
		Date:	04/24/2007	04/24/2007	04/25/2007	04/24/2007	04/24/2007	4/24/2007	4/24/2007	04/24/2007	04/24/2007	04/26/2007
1,1-Dichloroethane	4.9	NA	NA	NA	0.0075	0.011	ND (0.0050)	0.0031 J	0.16	0.16	0.0081	NS
1,1-Dichloroethene	0.0070	ND (0.0050)	0.0023 J	0.0082	0.031	0.0040 J	ND (0.0050)	0.018	0.76	0.76	0.021	NS
1,2-Dichloroethane	0.0050	NA	NA	NA	0.00087 J	ND (0.0050)	ND (0.0050)	0.00050 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	NS
cis-1,2-Dichloroethene	0.070	0.0010 J	0.0046 J	0.0066	0.0040 J	ND (0.0050)	0.0017 J	0.0038 J	0.0035 J	0.0035 J	ND (0.0050)	NS
Tetrachloroethene	0.0050	ND (0.0050)	0.0016 J	ND (0.0050)	ND (0.0050)	0.00076 J	0.0028 J	0.025	0.0031 J	0.0031 J	ND (0.0050)	NS
Trichloroethene	0.0050	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.027	ND (0.0050)	0.0021 J	0.0076	0.0036 J	0.0036 J	0.0060	NS
Vinyl Chloride	0.0020	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0064	0.0064	ND (0.0020)	NS

NOTES:

The reported concentrations are in mg/L.

0.10 = exceedance of TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Groundwater critical PCLs.

NA = Not Analyzed.

NS = Not Sampled.

ND (0.0050) = Not Detected at the method quantitation limit given in parentheses.

(a) TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Groundwater PCLs, 30-acre source area, Table 3, table for TRRP Rule dated April 20, 2007.

(b) The sample depths are reported in feet below ground surface.

(c) Destroyed during demolition activities.

(d) Plugged and abandoned.

(e) Permanganate present; a solution of potassium permanganate was injected in January 2005.

(f) Permanganate present; a solution of sodium permanganate was injected in the vicinity during March 2007.

J = Estimated data, the reported sample concentration is approximated due to exceedance of QC requirements.

TABLE 2 (Cont'd)

Summary of Monitor Well Ground Water Data  
First Half 2007 Monitoring Data Transmittal

Former Cameron Iron Works Facility  
Houston, Texas

Constituent	Critical PCLs (a)	Location:	MW-89	MW-90	MW-91	MW-92	MW-94	MW-99	MW-100	MW-101	MW-102	MW-106
		Depth: (b)	37	35	37	43	25	32	31	30	45	42
		Date:	04/24/2007	04/25/2007	04/25/2007	04/27/2007	04/26/2007	04/26/2007	04/26/2007	04/24/2007	04/26/2007	04/23/2007
1,1-Dichloroethane	4.9		0.0044 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.011	0.013	0.0034 J	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.0070		0.027	0.011	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.077	0.014	0.0074	ND (0.0050)	ND (0.0050)
1,2-Dichloroethane	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0012 J	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.070		0.015	0.0048 J	0.0023 J	0.0039 J	ND (0.0050)	ND (0.0050)	0.015	0.0044 J	0.0031 J	ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)	0.37	0.23	0.62	ND (0.0050)	0.0020 J	ND (0.0050)	0.15	0.64	0.34
Trichloroethene	0.0050		0.059	0.012	0.0045 J	0.0050 J	ND (0.0050)	ND (0.0050)	0.0019 J	0.018	0.0036 J	0.0043 J
Vinyl Chloride	0.0020		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)

  

Constituent	Critical PCLs (a)	Location:	MW-107	MW-108	MW-109	MW-110	MW-111	MW-112	MW-113	MW-114	MW-115	MW-116
		Depth: (b)	42	27	26	27	26	26	27	32	34	27
		Date:	04/26/2007	04/25/2007	04/25/2007	04/25/2007	04/25/2007	04/25/2007	04/25/2007	04/25/2007	04/23/2007	04/23/2007
1,1-Dichloroethane	4.9		ND (0.0050)	NA	NA	NA	NA	NA	NA	ND (0.0050)	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.0070		ND (0.0050)	0.20	0.22	0.88	ND (0.0050)	0.066	ND (0.0050)	0.054	1.5	0.0025 J
1,2-Dichloroethane	0.0050		ND (0.0050)	NA	NA	NA	NA	NA	NA	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.070		0.0013 J	0.0039 J	0.17	0.044	0.037	0.22	ND (0.0050)	0.015	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050		0.56	ND (0.0050)	0.074	0.015	ND (0.0050)	0.030	ND (0.0050)	0.58	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050		0.010	0.0071	0.079	0.0080	ND (0.0050)	0.038	ND (0.0050)	0.051	0.0086	0.0017 J
Vinyl Chloride	0.0020		ND (0.0020)	0.047	0.0092	0.011	0.011	0.13	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)

  

Constituent	Critical PCLs (a)	Location:	MW-118	MW-120	MW-121	MW-124	MW-127	MW-128	MW-129	MW-130	MW-02(C)	MW-02(S)
		Depth: (b)	27	25	28	29	32	40	35	25	23	23
		Date:	04/26/2007	04/24/2007	04/26/2007	04/26/2007	04/23/2007	04/27/2007	04/25/2007	04/26/2007	04/27/2007	04/26/2007
1,1-Dichloroethane	4.9		0.0052	0.0026 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.10	ND (0.0050)	NA	ND (0.0050)
1,1-Dichloroethene	0.0070		0.042	0.011	0.11	0.0035 J	ND (0.0050)	0.0075	0.37	ND (0.0050)	ND (0.0050)	ND (0.0050)
1,2-Dichloroethane	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	NA	ND (0.0050)
cis-1,2-Dichloroethene	0.070		0.0065	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0016 J	0.0067	0.016	ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050		0.0015 J	ND (0.0050)	ND (0.0050)	0.0030 J	ND (0.0050)	0.0021 J	0.044	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050		0.026	ND (0.0050)	ND (0.0050)	0.0021 J	0.0073	0.036	0.036	ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0020		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)

NOTES:

The reported concentrations are in mg/L.

0.10 = exceedance of TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Groundwater critical PCLs.

NA = Not Analyzed.

NS = Not Sampled.

ND (0.0050) = *Not Detected* at the method quantitation limit given in parentheses.

(a) TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Groundwater PCLs, 30-acre source area, Table 3, table for TRRP Rule dated April 20, 2007.

(b) The sample depths are reported in feet below ground surface.

(c) Destroyed during demolition activities.

(d) Plugged and abandoned.

(e) Permanganate present; a solution of potassium permanganate was injected in January 2005.

(f) Permanganate present; a solution of sodium permanganate was injected in the vicinity during March 2007.

J = Estimated data, the reported sample concentration is approximated due to exceedance of QC requirements.

TABLE 2 (Cont'd)

Summary of Monitor Well Ground Water Data  
 First Half 2007 Monitoring Data Transmittal

Former Cameron Iron Works Facility  
 Houston, Texas

Constituent	Critical PCLs (a)	Location:	MW-03 (S)
		Depth: (b)	23
		Date:	04/26/2007
1,1-Dichloroethane	4.9		ND (0.0050)
1,1-Dichloroethene	0.0070		ND (0.0050)
1,2-Dichloroethane	0.0050		ND (0.0050)
cis-1,2-Dichloroethene	0.070		ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)
Trichloroethene	0.0050		ND (0.0050)
Vinyl Chloride	0.0020		ND (0.0020)

NOTES:

The reported concentrations are in mg/L.

0.10 = exceedance of TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Groundwater critical PCLs.

NA = Not Analyzed.

NS = Not Sampled.

ND (0.0050) = *Not Detected* at the method quantitation limit given in parentheses.

(a) TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Residential Class 2 Groundwater PCLs, 30-acre source area, Table 3, table for TRRP Rule dated April 20, 2007.

(b) The sample depths are reported in feet below ground surface.

(c) Destroyed during demolition activities.

(d) Plugged and abandoned.

(e) Permanganate present; a solution of potassium permanganate was injected in January 2005.

(f) Permanganate present; a solution of sodium permanganate was injected in the vicinity during March 2007.

J = Estimated data, the reported sample concentration is approximated due to exceedance of QC requirements.



TABLE 3

Summary of Surface Water Data  
First Half 2007 Monitoring Data Transmittal

Former Cameron Iron Works Facility  
Houston, Texas

Constituent	Critical	80% Critical	Location:	SWD-12	SWD-14	SWD-15
	PCLs (a)	PCL (a)		Date:	04/23/2007	04/23/2007
1,1-Dichloroethane	5.13	4.10		0.00085 J	0.0050	0.0033 J
1,1-Dichloroethene	0.06	0.05		0.00093 J	0.024	0.020
1,2-Dichloroethane	0.554	0.443		ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	9.36	7.49		ND (0.0050)	0.0046 J	0.0022 J
Tetrachloroethene	0.790	0.632		ND (0.0050)	0.0037 J	0.0028 J
Trichloroethene	1.110	0.888		0.00075 J	0.0084	0.0032 J
Vinyl Chloride	0.0336	0.0269		ND (0.0020)	0.0031	0.0014 J

  

Constituent	Critical	80% Critical	Location:	SWD-17	SWD-18	SWD-20
	PCLs (a)	PCL (a)		Date:	04/23/2007	04/23/2007
1,1-Dichloroethane	5.13	4.10		ND (0.0050)	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.06	0.05		0.00069 J	0.0030 J	ND (0.0050)
1,2-Dichloroethane	0.554	0.443		ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	9.36	7.49		0.0015 J	0.0016 J	ND (0.0050)
Tetrachloroethene	0.790	0.632		0.016	0.014	0.0037 J
Trichloroethene	1.110	0.888		0.00084 J	0.00093 J	ND (0.0050)
Vinyl Chloride	0.0336	0.0269		ND (0.0020)	ND (0.0020)	ND (0.0020)

## NOTES:

The reported concentrations are in mg/L.

ND (0.0050) = *Not Detected* at the Reporting Limit given in parentheses.

J = Estimated data, the reported sample concentration is approximated due to exceedance of QC requirements.

(a) Taken from the critical PCLs calculated in the *Human Health Ecological Risk Assessment for Surface Water and Sediment*, dated June 2003.

SWD = Surface Water Harris County Flood Control Ditch.