

October 11, 2010

Mr. Mark Riggle
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Voluntary Cleanup Section
Texas Commission on Environmental Quality
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Project No. 0113055

Environmental
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Subject: First Half 2010 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 (ERM) is providing the First Half 2010 monitoring results for the Former Cameron Iron Works Facility in Houston, Texas for your review and consideration. This report presents a summary of the actions undertaken to monitor the apparent movement of the plume in some areas downgradient of the Former Cameron Iron Works Facility (the facility) during the first half of 2010. A summary table (Table 1, Attachment 1) has been created to convey this information, as well as the future course of action for each area.

Ground Water Sampling Activities

Eight ground water samples, including one duplicate sample, were collected on February 12, 2010 at MW-74, MW-80, MW-84, MW-125, MW-134, MW-171, and MW-173 and analyzed for the site-specific constituents of concern (COCs). This quarterly sampling event was performed at these locations because the results from October 2009 sampling results were elevated above the Protective Concentration Levels (PCLs).

The semiannual ground water and surface water sampling event was completed in April 2010. Based on a review of these results, a slight increase in reported concentrations at MW-97, MW-100, MW-113, MW-122 and MW-134 was apparent. In accordance with the *Response Action Plan (RAP)*, dated August 28, 2003, confirmation sampling of these wells was completed on May 14, 2010 to confirm the results of the April 2010 semiannual sampling event.

Summary of Results

All ground water analytical results collected during the first half of 2010 were compared to the response action obligations outlined in the RAP. The boundary wells are referred to as "trigger wells" because of their position on the plume boundary and purpose to detect the potential for plume movement. Table 1 indicates which trigger wells require a response action and the proposed response action for each. The ground water analytical results for the trigger wells are presented in Table 2, and the analytical results for the non-trigger wells are presented in Table 3.

The reported surface water concentrations, summarized on Table 4, are below both the critical PCLs and 80% of the critical PCLs as established in the *Human Health and Ecological Risk Assessment for Surface Water and Sediment*, dated June 19, 2003.

The laboratory reports and data usability summaries will be provided in the 2010 Annual Ground Water Monitoring Report and Field Activities Summary.

Conclusions and Recommendations

Cameron proposes to undertake the following response actions to meet the requirements of the RAP:

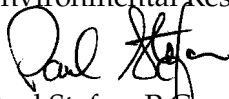
- COC concentrations will be monitored at MW-59, MW-74, MW-84, MW-125, MW-134, MW-171, and MW-173 on a quarterly basis;
- MW-173 has had reported detections above the PCL for four consecutive sampling events. However, a remediation system was installed in the area to address affected ground water. MW-173 will continue to be monitored quarterly to monitor the effectiveness of the remediation system;
- Monitoring/injection wells will continue to be monitored for the presence of permanganate so that additional injections can be performed as necessary to reduce concentrations in the area;
- MW-80 and MW-97 had reported concentrations above PCLs during the first quarter of 2010, but these exceedances were not replicated in the subsequent first half sampling event. MW-80 and MW-87 will remain on the semiannual sampling schedule; and
- COC concentrations in MW-122 will be monitored during the third quarter 2010 as confirmation on the April and May results but will remain on the semiannual sampling schedule until consistent data is reported.

The third quarter sampling event was performed in August 2010 and the results will be submitted under separate cover.

Please contact Mr. Ted Fasting of Cameron International Corporation at (713) 513-3325 or me at (281) 600-1023 with any questions or comments.

Sincerely,

Environmental Resources Management Southwest, Inc.


Paul Stefan, P.G.

PAS/skd
Attachment

cc: Marsha Hill, Texas Commission on Environmental Quality, Region X II
Ted Fasting, Cameron International Corporation
Bruce Himmelreich, Cameron International Corporation, (without attachment)

Tables
Attachment 1

October 11, 2010
Project No. 0113055

Environmental Resources Management Southwest, Inc.
15810 Park Ten Place, Suite 300
Houston, Texas 77084
(281) 600-1000

TABLE 1

Summary of Response Action Plan Implementation
First Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Well	COCs elevated above MQL	COCs elevated above PCL	Need for Additional Notification (Yes or No)	In-situ Treatment (Yes or No)	Sampling Frequency
MW-59	1,1-dichloroethene	1,1-dichloroethene	no (b)	no (a)	Quarterly
MW-74	1,1-dichloroethene	1,1-dichloroethene	no (b)	no	Quarterly
MW-84	1,1-dichloroethene	1,1-dichloroethene	no (b)	no	Quarterly
MW-125	1,1-dichloroethene	1,1-dichloroethene	no (b)	no (c)	Quarterly
MW-134	1,1-dichloroethene trichloroethene	1,1-dichloroethene trichloroethene	no (b)	no	Quarterly
MW-173	1,1-dichloroethene	1,1-dichloroethene	no (b)	no (d)	Quarterly

NOTES:

COCs = Chemicals of Concern.

MQL = Method Quantitation Limit.

PCL = Protective Concentration Level.

(a) MW-59 is within the capture zone of EW-1.

(b) Properties in the vicinity of the affected ground water have been previously notified.

(c) Injection wells located in the area of this well were injected with sodium permanganate in December 2009.

Residual permanganate is present and will be maintained as necessary to reduce concentrations to acceptable levels.

If there is no presence of permanganate in this area, additional permanganate will be injected.

(d) A ground water remediation system was installed to address affected ground water in the area of MW-173.

TABLE 2

Summary of Monitor Well Ground Water Data for Trigger Wells
First Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	MQL	Critical PCLs (a)	Location:	MW-17R	MW-59	MW-71	MW-72	MW-74		MW-77
			Depth: (b)	20	25	25	24	27		30
			Date:	4/14/2010	4/14/2010	4/14/2010	4/15/2010	2/12/2010	4/14/2010	4/14/2010
1,1-Dichloroethane	0.005	4.9		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00067 J	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.005	0.007		ND (0.0050)	0.010	ND (0.0050)	ND (0.0050)	0.018	0.016	ND (0.0050)
1,2-Dichloroethane	0.005	0.005		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	0.005	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.002	0.002		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-80	MW-81	MW-84		MW-85R	
			Depth: (b)	31	28	31		29	
			Date:	2/12/2010	4/13/2010	4/12/2010	2/12/2010	4/15/2010	4/14/2010
1,1-Dichloroethane	0.005	4.9		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0027 J	0.0058	ND (0.0050)
1,1-Dichloroethene	0.005	0.007		0.0072	0.0067	ND (0.0050)	0.032	0.064	ND (0.0050)
1,2-Dichloroethane	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.005	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.002	0.002		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.00077 J	ND (0.0020)

Constituent	MQL	Critical PCLs (a)	Location:	MW-86	MW-97		MW-98	MW-99	MW-117
			Depth: (b)	40	33		36	32	25
			Date:	4/14/2010	4/15/2010	5/14/2010	4/15/2010	4/14/2010	4/14/2010
1,1-Dichloroethane	0.005	4.9		ND (0.0050)	0.00093 J	0.00065 J	ND (0.0050)	ND (0.0050)	
1,1-Dichloroethene	0.005	0.007		ND (0.0050)	0.0077	0.0061	ND (0.0050)	0.0017 J	
1,2-Dichloroethane	0.005	0.005		0.0012 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0045 J	
cis-1,2-Dichloroethene	0.005	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	
Tetrachloroethene	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	
Trichloroethene	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	
Vinyl Chloride	0.002	0.002		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	

NOTES:

The reported concentrations are in mg/L.

0.0088 = 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, Table 3, table for TRRP Rule dated April 2008.

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

(c) Not sampled due to permanganate in well.

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

L = Biased Low.

U = Not detected, the SQL is estimated

TABLE 2 (Cont'd)

Summary of Monitor Well Ground Water Data for Trigger Wells
First Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	MQL	Critical PCLs (a)	Location:	MW-119	MW-122	MW-123	MW-125		
			Depth: (b)	28	28	27.5	32		
			Date:	4/15/2010	4/13/2010	5/14/2010	4/14/2010	4/13/2010	2/12/2010
1,1-Dichloroethane	0.005	4.9		ND (0.0050)	ND (0.0050)	0.0018 J	ND (0.0050)	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.005	0.007		0.0014 J	0.0012 J	0.048	ND (0.0050)	ND (0.0050)	ND (0.0050)
1,2-Dichloroethane	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.005	0.070		ND (0.0050)	0.00094 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0078	0.0058
Trichloroethene	0.005	0.005		ND (0.0050)	0.0057	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.002	0.002		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-131	MW-134	MW-139		
			Depth: (b)	25	30	25		
			Date:	4/14/2010	2/12/2010	4/15/2010	5/14/2010	4/13/2010
1,1-Dichloroethane	0.005	4.9		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.005	0.007		ND (0.0050)	0.0068	0.044	0.0020 J	ND (0.0050)
1,2-Dichloroethane	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.005	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0013 J	ND (0.0050)
Tetrachloroethene	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0074	ND (0.0050)
Vinyl Chloride	0.002	0.002		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)

Constituent	MQL	Critical PCLs (a)	Location:	MW-146	MW-168	MW-171	MW-173		
			Depth: (b)	30	35	25	35		
			Date:	4/13/2010	4/15/2010	2/12/2010	4/15/2010	2/12/2010	4/16/2010
1,1-Dichloroethane	0.005	4.9		ND (0.0050)	ND (0.0050)	0.0028 J	0.0027 J	0.0039 J	0.0025 J
1,1-Dichloroethene	0.005	0.007		ND (0.0050)	ND (0.0050)	0.0032 J	0.0033 J	0.035	0.023
1,2-Dichloroethane	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.005	0.070		ND (0.0050)	ND (0.0050)	0.0011 J	0.0013 J	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.005	0.005		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.002	0.002		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.

0.0088

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, Table 3, table for TRRP Rule dated April 2008.

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

(c) Not sampled due to permanganate in well.

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

L = Biased Low.

U = Not detected, the SQL is estimated

TABLE 3

Summary of Monitor Well Ground Water Data
First Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	Location:	KMW-07	KMW-13	KMW-14	MW-01	MW-02	MW-07R	MW-15R	MW-16R
		Depth: (b)	25	25	25	25	25	25	23	20
		Date:	4/15/2010	4/16/2010	4/16/2010	4/15/2010	4/13/2010	4/15/2010	4/15/2010	4/16/2010
1,1-Dichloroethane	4.9		NA	NA	NA	NA	NA	NA	0.0076	0.023
1,1-Dichloroethene	0.0070		ND (0.0050)	ND (0.0050)	0.0027 J	0.0015 J	ND (0.0050)	0.0043 J	0.022	0.048
1,2-Dichloroethane	0.0050		NA	NA	NA	NA	NA	NA	ND (0.0050)	0.00063 J
cis-1,2-Dichloroethene	0.070		ND (0.0050)	ND (0.0050)	0.00065 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0054	0.019
Tetrachloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.015	0.0026 J
Trichloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0036 J	0.0068
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)	0.0046

Constituent	Critical PCLs (a)	Location:	MW-35	MW-42	MW-43	MW-44	MW-48	MW-50	MW-52	MW-54
		Depth: (b)	26	25	25	25	23	25	25	23
		Date:	4/16/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/14/2010
1,1-Dichloroethane	4.9		NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.0070		0.0017 J	ND (0.0050)	0.0013 J	0.12	0.59	60	0.12	0.41
1,2-Dichloroethane	0.0050		NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.016	0.61	ND (0.0050)	9.0
Tetrachloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.045	0.033 J	ND (0.0050)	0.15
Trichloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0050 J	0.91	ND (0.0050)	1.1
Vinyl Chloride	0.0020		0.0027	ND (0.0020)	ND (0.0020)	0.015	0.066	3.5	0.0097	0.13

Constituent	Critical PCLs (a)	Location:	MW-56	MW-58	MW-60	MW-61	MW-62	MW-63	MW-64	MW-65
		Depth: (b)	24	23	34	23	25	25	25	25
		Date:	4/16/2010	4/15/2010	4/14/2010	4/14/2010	4/16/2010	4/16/2010	4/14/2010	4/15/2010
1,1-Dichloroethane	4.9		NA	NA	ND (0.0050)	ND (0.0050)	NA	NA	NA	NA
1,1-Dichloroethene	0.0070		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0012 J	ND (0.0050)	0.0035 J
1,2-Dichloroethane	0.0050		NA	NA	ND (0.0050)	ND (0.0050)	NA	NA	NA	NA
cis-1,2-Dichloroethene	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0026 J
Tetrachloroethene	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		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		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0036

NOTES:

The reported concentrations are in mg/L.

0.028 = 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 Ground Water PCLs, Table 3, table for TRRP Rule dated March 25, 2009.

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

(c) Not sampled due to permanganate in well.

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

L = Biased Low.

U = Not detected, the SQL is estimated

TABLE 3 (Cont'd)

Summary of Monitor Well Ground Water Data
First Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	Location:	MW-70	MW-73	MW-75R	MW-76	MW-78	MW-79	MW-82	MW-83
		Depth: (b)	25	25	33	31	26	33	31	30
		Date:	4/14/2010	4/13/2010	4/12/2010	4/14/2010	4/12/2010	4/13/2010	4/14/2010	4/14/2010
1,1-Dichloroethane	4.9		0.026	0.0065	0.013	ND (0.0050)	0.025	0.013	0.031	0.0058
1,1-Dichloroethene	0.0070		0.056	0.029	0.0051	ND (0.0050)	0.016	0.067	0.12	0.034
1,2-Dichloroethane	0.0050		ND (0.0050)	0.00071 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00057 J	ND (0.0050)
cis-1,2-Dichloroethene	0.070		0.20	0.0014 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0032 J	0.024	0.0016 J
Tetrachloroethene	0.0050		0.0019 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0017 J	0.044	0.0027 J
Trichloroethene	0.0050		0.11	0.0064	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.029	0.0025 J
Vinyl Chloride	0.0020		0.0054	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0049	0.0038	ND (0.0020)

Constituent	Critical PCLs (a)	Location:	MW-87	MW-88 (c)	MW-89	MW-90	MW-91	MW-92	MW-93 (c)	MW-94
		Depth: (b)	32	38	37	35	37	43	43	25
		Date:	4/14/2010		4/14/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/14/2010
1,1-Dichloroethane	4.9		0.0048 J	NS	0.0089	ND (0.0050)	ND (0.0050)	ND (0.0050)	NS	ND (0.0050)
1,1-Dichloroethene	0.0070		0.030	NS	0.049	0.0063	ND (0.0050)	ND (0.0050)	NS	ND (0.0050)
1,2-Dichloroethane	0.0050		ND (0.0050)	NS	0.00072 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	NS	ND (0.0050)
cis-1,2-Dichloroethene	0.070		ND (0.0050)	NS	0.0090	0.0041 J	ND (0.0050)	0.0010 J	NS	ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)	NS	0.0014 J	0.50	0.21	0.29	NS	ND (0.0050)
Trichloroethene	0.0050		0.0013 J	NS	0.044	0.033	0.0036 J	0.0029 J	NS	ND (0.0050)
Vinyl Chloride	0.0020		ND (0.0020)	NS	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	NS	ND (0.0020)

Constituent	Critical PCLs (a)	Location:	MW-95	MW-96R	MW-100	MW-101	MW-102	MW-106	MW-107
		Depth: (b)	30	33	31	30	45	42	42
		Date:	4/14/2010	4/15/2010	4/14/2010	5/14/2010	4/12/2010	4/13/2010	4/14/2010
1,1-Dichloroethane	4.9		ND (0.0050)	0.0084	0.0062	0.0014 J	0.011	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.0070		ND (0.0050)	0.10	0.0056	0.0019 J	0.069	ND (0.0050)	ND (0.0050)
1,2-Dichloroethane	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0011 J	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.070		ND (0.0050)	ND (0.0050)	0.0024 J	0.00068 J	0.0027 J	0.00090 J	0.0025 J
Tetrachloroethene	0.0050		ND (0.0050)	ND (0.0050)	0.069	0.028	0.038	0.24	0.66
Trichloroethene	0.0050		ND (0.0050)	ND (0.0050)	0.0036 J	0.0015 J	0.0057	0.0014 J	0.0040 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)

NOTES:

The reported concentrations are in mg/L.

0.028 = 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 Ground Water PCLs, Table 3, table for TRRP Rule dated March 25, 2009.

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

(c) Not sampled due to permanganate in well.

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

L = Biased Low.

U = Not detected, the SQL is estimated

TABLE 3 (Cont'd)

Summary of Monitor Well Ground Water Data
First Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	Location:	MW-108	MW-109	MW-110	MW-111	MW-112	MW-113	MW-114	
		Depth: (b)	27	26	27	26	26	27		32
		Date:	4/12/2010	4/12/2010	4/13/2010	4/14/2010	4/14/2010	4/14/2010	5/14/2010	4/12/2010
1,1-Dichloroethane	4.9		NA	NA	NA	NA	NA	NA	0.0050 J	
1,1-Dichloroethene	0.0070		0.30	0.076	0.065	0.0014 J	0.031	0.0072	0.0087	0.023
1,2-Dichloroethane	0.0050		NA	NA	NA	NA	NA	NA	NA	0.0053
cis-1,2-Dichloroethene	0.070		0.010	0.13	0.025	0.0089	0.068	ND (0.0050)	ND (0.0050)	0.016
Tetrachloroethene	0.0050		0.0029 J	0.018	0.0021 J	0.085	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.37
Trichloroethene	0.0050		0.017	0.011	0.0040 J	0.032	0.0027 J	ND (0.0050)	ND (0.0050)	0.055
Vinyl Chloride	0.0020		0.064	0.011	0.012	0.0032	ND (0.0020)	0.0023	0.0025	ND (0.0020)

Constituent	Critical PCLs (a)	Location:	MW-115	MW-116	MW-118	MW-119	MW-120	MW-121	MW-124	MW-126
		Depth: (b)	34	27	27	28	25	28	29	32
		Date:	4/16/2010	4/14/2010	4/15/2010	4/15/2010	4/14/2010	4/14/2010	4/15/2010	4/16/2010
1,1-Dichloroethane	4.9		0.00058 J	0.0044 J	0.018	ND (0.0050)	0.023	ND (0.0050)	0.0047 J	ND (0.0050)
1,1-Dichloroethene	0.0070		0.75	0.070	0.18	0.0014 J	0.032	0.062	0.027	ND (0.0050)
1,2-Dichloroethane	0.0050		0.010	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00069 J	ND (0.0050)	0.0019 J	ND (0.0050)
cis-1,2-Dichloroethene	0.070		ND (0.0050)	0.0084	0.016	ND (0.0050)	0.028	ND (0.0050)	0.022	ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)	0.0027 J	0.019	ND (0.0050)	0.28	ND (0.0050)	0.49	ND (0.0050)
Trichloroethene	0.0050		0.0065	0.021	0.053	ND (0.0050)	0.025	ND (0.0050)	0.043	ND (0.0050)
Vinyl Chloride	0.0020		ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0085	ND (0.0020)	ND (0.0020)	ND (0.0020)

Constituent	Critical PCLs (a)	Location:	MW-127	MW-128	MW-129	MW-130	MW-132	MW-133	MW-135	MW-140
		Depth: (b)	34	40	35	25	25	25	25	25
		Date:	4/19/2010	4/16/2010	4/15/2010	4/16/2010	4/14/2010	4/14/2010	4/14/2010	4/15/2010
1,1-Dichloroethane	4.9		ND (0.0050)	ND (0.0050)	0.032	ND (0.0050)	ND (0.0050)	0.0037 J	0.00094 J	0.0054
1,1-Dichloroethene	0.0070		ND (0.0050)	0.0032 J	0.21	ND (0.0050)	ND (0.0050)	0.013	0.00088 J	0.016
1,2-Dichloroethane	0.0050		ND (0.0050)	ND (0.0050)	0.00082 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.070		ND (0.0050)	0.0018 J	0.0061	ND (0.0050)	ND (0.0050)	0.0012 J	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)	ND (0.0050)	0.034	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0017 J	ND (0.0050)
Trichloroethene	0.0050		0.0075	0.0082	0.019	ND (0.0050)	ND (0.0050)	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)

NOTES:

The reported concentrations are in mg/L.

0.028 = 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 Ground Water PCLs, Table 3, table for TRRP Rule dated March 25, 2009.

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

(c) Not sampled due to permanganate in well.

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

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TABLE 3 (Cont'd)

Summary of Monitor Well Ground Water Data
First Half 2010 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	Location:	MW-141	MW-142	MW-143	MW-144	MW-145	MW-149	MW-166	MW-167
		Depth: (b)	30	33	24	25	23.5	27	35	38
		Date:	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/13/2010	4/15/2010	4/16/2010	4/15/2010
1,1-Dichloroethane	4.9		0.023	0.0059	ND (0.0050)	0.010	ND (0.0050)	0.0025 J	0.0020 J	0.011
1,1-Dichloroethene	0.0070		0.032	0.097	0.0078	0.31	ND (0.0050)	0.0018 J	0.022	0.15
1,2-Dichloroethane	0.0050		0.00058 J	ND (0.0050)	ND (0.0050)	0.00057 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.070		0.0017 J	ND (0.0050)	ND (0.0050)	0.0011 J	ND (0.0050)	0.0026 J	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050		0.00069 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.022	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0053	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0020		0.0026	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0011 J

Constituent	Critical PCLs (a)	Location:	MW-169	MW-170	MW-172	MW-175	MW-176	MW-177	MW-174	MW-02(C)
		Depth: (b)	35	25	25	35	35	35	34	23
		Date:	4/15/2010	4/15/2010	4/15/2010	4/16/2010	4/16/2010	4/16/2010	4/16/2010	4/13/2010
1,1-Dichloroethane	4.9		ND (0.0050)	0.0018 J	0.00056 J	ND (0.0050)	0.0011 J	0.011	ND (0.0050)	NA
1,1-Dichloroethene	0.0070		ND (0.0050)	0.013	0.0011 J	0.0050	0.016	0.16	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)	NA
cis-1,2-Dichloroethene	0.070		ND (0.0050)	0.0081	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	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		ND (0.0050)	0.012	ND (0.0050)	ND (0.0050)	ND (0.0050)	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)	0.00093 J	ND (0.0020)	ND (0.0020)

Constituent	Critical PCLs (a)	Location:	MW-02(S)	MW-03(S)	KMW-01
		Depth: (b)	23	23	21
		Date:	4/15/2010	4/15/2010	4/15/2010
1,1-Dichloroethane	4.9		ND (0.0050)	0.00080 J	NA
1,1-Dichloroethene	0.0070		ND (0.0050)	ND (0.0050)	ND (0.0050)
1,2-Dichloroethane	0.0050		ND (0.0050)	ND (0.0050)	NA
cis-1,2-Dichloroethene	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0020		ND (0.0020)	ND (0.0020)	ND (0.0020)

NOTES:

The reported concentrations are in mg/L.

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

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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 Ground Water PCLs, Table 3, table for TRRP Rule dated March 25, 2009.

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

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TABLE 4

Summary of Surface Water Data
First Half 2010 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:	4/16/2010	4/16/2010
1,1-Dichloroethane	5.13	4.10		ND (0.0050)	0.0027 J	0.0018 J
1,1-Dichloroethene	0.06	0.05		ND (0.0050)	0.010	0.019
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)	0.0016 J	0.0014 J
Tetrachloroethene	0.790	0.632		ND (0.0050)	0.0018 J	0.00090 J
Trichloroethene	1.110	0.888		ND (0.0050)	0.0026 J	0.0025 J
Vinyl Chloride	0.0336	0.0269		ND (0.0020)	0.00083 J	ND (0.0020)

Constituent	Critical	80% Critical	Location:	SWD-17	SWD-18	SWD-20
	PCLs (a)	PCL (a)		Date:	4/16/2010	4/16/2010
1,1-Dichloroethane	5.13	4.10		ND (0.0050)	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.06	0.05		0.0055	0.0026 J	0.00088 J
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	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.790	0.632		0.016	0.0086	0.0039 J
Trichloroethene	1.110	0.888		0.00089 J	ND (0.0050)	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.

L = Biased Low.

U = Not detected, the SQL is estimated

(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.