Environmental
Resources
Management

15810 Park Ten Place
Suite 300
Houston, Texas 77084-5140
(281) 600-1000
(281) 600-1001 (fax)

June 5, 2009

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. 0099217

Subject: First Half 2009 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 the First Half 2009 monitoring results for the Former Cameron Iron Works Facility in Houston, Texas for your review and consideration.

The semiannual ground water and surface water sampling event was completed in April 2009. Based on a review of these results, a slight increase in reported concentrations at MW-59, MW-120, MW-143, and MW-144 was apparent. In accordance with the *Response Action Plan* (RAP), dated August 28, 2003, confirmation sampling of these wells was completed on May 4, 2009 to confirm the results of the April 2009 semiannual sampling event.

All ground water analytical results collected during the first half of 2009 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 2009 Annual Ground Water Monitoring Report and Field Activities Summary.

Conclusions and Recommendations

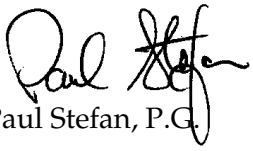
Cameron proposes to undertake the following response actions to meet the requirements of the RAP in the next three months:

- Property owners in the areas of MW-59, MW-143, and MW-144 will be notified by certified mail (three properties on Pinehaven Dr. and one on Silber Rd.);
- MW-170 has had reported detections above the PCL for four consecutive sampling events and will be removed from the list of trigger wells and monitored semiannually. MW-77 and MW-171 will now serve as the trigger wells for this area;
- COC concentrations will be monitored in ground water at MW-59, MW-80, MW-84, MW-143, MW-144, MW-171, MW-172, and MW-173 on a quarterly basis. The next quarterly sampling event is scheduled for July 2009;
- New wells for permanganate injection will be installed along Pinehaven Road and Chatsworth Road to address apparent plume migration;
- MW-59 is located within the ground water capture zone of EW-1 and the potential for affected ground water to be present in this area is addressed by the existing ground water extraction system; and
- An amendment to the RAP will be submitted to address affected ground water in the area of MW-173.

Please contact Mr. Ted Fasting of Cameron International Corporation at (713) 513-3325 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)
Bill Deffebach, Stablewood Property Owners Association
Robin Morse, Crain, Canton, and James, P.C.
James Elkins III, Houston Trust Company
Lisa Shelton, Andrews Kurth, LLP
Brian Weaver, SKA Consulting, L.P.

Tables

Attachment 1

June 5, 2009
Project No. 0099217

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 2009 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	yes	no (a)	Quarterly
MW-125	1,1-dichloroethene	1,1-dichloroethene	no (b)	no (c)	Quarterly
MW-144	1,1-dichloroethene	1,1-dichloroethene	yes	no (c)	Quarterly
MW-143	1,1-dichloroethene	1,1-dichloroethene	yes	no (c)	Quarterly
MW-170	1,1-dichloroethene cis-1,2-dichloroethene trichloroethene	1,1-dichloroethene trichloroethene	no (b)	no	Semiannually
MW-172	1,1-dichloroethene	1,1-dichloroethene	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 this area were injected with sodium permanganate in March 2008. This area is being gauged regularly for the presence of permanganate. If there is no presence of permanganate in this area, additional permanganate will be injected.
(d) An amendment to the RAP will be submitted to address the affected ground water in the area of MW-173.

TABLE 2

Summary of Monitor Well Ground Water Data for Trigger Wells
First Half 2009 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	MQL	Critical PCLs (a)	Location: / Depth: (b) / Date:	MW-71 25 4/14/2009	MW-72 24 4/15/2009	MW-74 27 4/13/2009	MW-77 37 4/14/2009	MW-80 38 4/13/2009	MW-81 35 4/15/2009	MW-84 38 4/15/2009	MW-85R 29 4/14/2009	MW-86 40 4/14/2009
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)
1,1-Dichloroethene	0.0050	0.0070		ND (0.0050)	ND (0.0050)	0.0039 J	ND (0.0050) UJ	ND (0.0050)	ND (0.0050)	0.0035 J	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)	0.0010 J
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)
Tetrachloroethene	0.0050	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050) UJ	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050) UJ	ND (0.0050) UJ
Trichloroethene	0.0050	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050) UJ	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) UJ	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020) UJ	ND (0.0020) UJ

Constituent	MQL	Critical PCLs (a)	Location: / Depth: (b) / Date:	MW-93 (c) 43 4/13/2009	MW-95 30 4/14/2009	MW-97 33 4/16/2009	MW-98 36 4/16/2009	MW-117 25 4/14/2009	MW-119 28 4/15/2009	MW-122 28 4/14/2009	MW-123 28 4/15/2009	MW-125 32 4/15/2009
1,1-Dichloroethane	0.0050	4.9		NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00086 J	ND (0.0050)	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.0050	0.0070		NS	ND (0.0050)	0.0026 J	ND (0.0050)	ND (0.0050) UJ	0.0032 J	ND (0.0050)	ND (0.0050)	ND (0.0050)
1,2-Dichloroethane	0.0050	0.0050		NS	ND (0.0050) UJ	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		NS	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		NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050) UJ	ND (0.0050)	ND (0.0050) UJ	ND (0.0050)	**0.015**
Trichloroethene	0.0050	0.0050		NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050) UJ	ND (0.0050)	0.0017 J	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0020	0.0020		NS	ND (0.0020) UJ	ND (0.0020)	ND (0.0020)	ND (0.0020) UJ	ND (0.0020)	ND (0.0020) UJ	ND (0.0020)	ND (0.0020)

Constituent	MQL	Critical PCLs (a)	Location: / Depth: (b) / Date:	MW-131 32 4/14/2009	MW-132 30 4/13/2009	MW-139 25 4/13/2009	MW-146 30 4/13/2009	MW-168 35 4/16/2009	MW-170 25 4/15/2009	MW-171 25 4/15/2009	MW-172 25 4/15/2009	MW-173 35 4/16/2009
1,1-Dichloroethane	0.0050	4.9		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0016 J	0.0013 J	0.0021 J	0.0026 J
1,1-Dichloroethene	0.0050	0.0070		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	**0.0097**	0.0011 J	**0.0089**	**0.026**
1,2-Dichloroethane	0.0050	0.0050		ND (0.0050) UJ	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)	**0.0068**	0.00067 J	0.0016 J	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)
Trichloroethene	0.0050	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	**0.0090**	ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0020	0.0020		ND (0.0020) UJ	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.
0.0088 = 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 3

Summary of Monitor Well Ground Water Data
First Half 2009 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	MW-17R	MW-35
		Depth: (b)	25	25	25	25	25	25	20	20	20	33
		Date:	4/15/2009	4/16/2009	4/16/2009	4/16/2009	4/14/2009	4/13/2009	4/13/2009	4/13/2009	4/13/2009	4/15/2009
1,1-Dichloroethane	4.9		NA	NA	NA	NA	NA	NA	ND (0.0050)	0.013	ND (0.0050)	NA
1,1-Dichloroethene	0.0070		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0015 J	0.0099	0.0053	0.0019 J	0.034	ND (0.0050)	0.046
1,2-Dichloroethane	0.0050		NA	NA	NA	NA	NA	NA	ND (0.0050)	ND (0.0050)	ND (0.0050)	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)	0.00077 J	0.047	ND (0.0050)	0.0027 J
Tetrachloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00077 J	0.0075	ND (0.0050)	0.0013 J
Trichloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.020	ND (0.0050)	0.00082 J
Vinyl Chloride	0.0020		0.00072 J	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0037	ND (0.0020)	0.055

Constituent	Critical PCLs (a)	Location:	MW-42	MW-43	MW-44	MW-48	MW-50	MW-52	MW-54	MW-56	MW-58
		Depth: (b)	25	25	25	30	32	25	30	24	23
		Date:	4/14/2009	4/14/2009	4/14/2009	4/14/2009	4/14/2009	4/13/2009	4/16/2009	4/15/2009	4/15/2009
1,1-Dichloroethane	4.9		NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	0.0070		0.00090 J	ND (0.0050)	0.026	0.75 JL	3.7	0.14	0.41	ND (0.0050)	ND (0.0050)
1,2-Dichloroethane	0.0050		NA	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.012	0.11	ND (0.0050)	13	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.089 J	0.0048 J	ND (0.0050)	0.16	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0070	0.093	ND (0.0050)	1.1	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0020		ND (0.0020)	ND (0.0020)	0.0044	0.070 J	1.1	0.011	0.16	ND (0.0020)	ND (0.0020)

Constituent	Critical PCLs (a)	Location:	MW-59		MW-60	MW-61	MW-62	MW-63	MW-64	MW-65	MW-70	MW-73
		Depth: (b)	25		34	23	25	25	25	25	25	25
		Date:	4/13/2009	5/4/2009	4/13/2009	4/13/2009	4/15/2009	4/15/2009	4/13/2009	4/13/2009	4/15/2009	4/14/2009
1,1-Dichloroethane	4.9		0.0016 J	0.0014 J	ND (0.0050)	ND (0.0050)	NA	NA	NA	NA	0.035	0.0089
1,1-Dichloroethene	0.0070		0.011	0.0099	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0038 J	0.026	0.038
1,2-Dichloroethane	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	NA	NA	NA	NA	ND (0.0050)	0.00096 J
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)	0.0029 J	0.14	0.0031 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)	0.0010 J	0.0012 J
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)	0.047	0.012
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)	0.0023	0.0051	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 2009 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	Location: / Depth: (b) / Date:	MW-75R 33 4/15/2009	MW-76 31 4/15/2009	MW-78 32 4/13/2009	MW-79 40 4/13/2009	MW-82 31 4/15/2009	MW-83 30 4/14/2009	MW-87 32 4/14/2009	MW-88 (c) 38 4/13/2009	MW-89 37 4/16/2009	MW-90 35 4/13/2009
1,1-Dichloroethane	4.9		0.014	ND (0.0050)	0.0038 J	0.045	0.027	0.033	0.0081	NS	0.0064	ND (0.0050)
1,1-Dichloroethene	0.0070		0.0055	ND (0.0050)	0.13	0.39	0.11	0.11	0.031	NS	0.030	0.0066
1,2-Dichloroethane	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00078 J	0.00092 J	0.00091 J	0.0014 J	NS	0.00071 J	ND (0.0050)
cis-1,2-Dichloroethene	0.070		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0034 J	0.014	0.0024 J	0.00075 J	NS	0.0084	0.0032 J
Tetrachloroethene	0.0050		ND (0.0050)	0.0021 J	ND (0.0050)	ND (0.0050)	0.015	0.00092 J	ND (0.0050) UJ	NS	0.00068 J	0.28
Trichloroethene	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00085 J	0.011	0.0017 J	0.0039 J	NS	0.046	0.021
Vinyl Chloride	0.0020		ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0095	ND (0.0020)	0.0027 J	ND (0.0020) UJ	NS	ND (0.0020)	ND (0.0020)

Constituent	Critical PCLs (a)	Location: / Depth: (b) / Date:	MW-91 37 4/14/2009	MW-92 43 4/13/2009	MW-94 25 4/13/2009	MW-96R 33 4/16/2009	MW-99 32 4/13/2009	MW-100 31 4/15/2009	MW-101 30 4/15/2009	MW-102 45 4/13/2009	MW-106 42 4/15/2009	MW-107 42 4/14/2009
1,1-Dichloroethane	4.9		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0057	ND (0.0050)	0.0012 J	0.0056	ND (0.0050)	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.0070		0.0027 J	ND (0.0050)	ND (0.0050)	0.080	0.0050 J	0.0044 J	0.026	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)	0.0011 J	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.070		0.0015 J	0.0020 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0014 J	0.0036 J	0.0017 J	0.0055	0.0034 J
Tetrachloroethene	0.0050		0.080 J	0.032	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0028 J	0.076	0.45	0.20	0.88 J
Trichloroethene	0.0050		0.0029 J	0.0012 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.010	0.0025 J	0.0023 J	0.011
Vinyl Chloride	0.0020		ND (0.0020) UJ	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) UJ

Constituent	Critical PCLs (a)	Location: / Depth: (b) / Date:	MW-108 27 4/14/2009	MW-109 26 4/14/2009	MW-110 27 4/14/2009	MW-111 26 4/14/2009	MW-112 26 4/13/2009	MW-113 27 4/13/2009	MW-114 32 4/15/2009	MW-115 34 4/15/2009	MW-116 27 4/14/2009	MW-118 27 4/15/2009
1,1-Dichloroethane	4.9		NA	NA	NA	NA	NA	NA	0.0050 J	ND (0.0050)	0.0061	0.021
1,1-Dichloroethene	0.0070		0.29	0.17	0.081	ND (0.0050)	0.071	0.00086 J	0.043	1.1	0.076 JL	0.17
1,2-Dichloroethane	0.0050		NA	NA	NA	NA	NA	NA	0.0033 J	0.011	ND (0.0050)	0.0011 J
cis-1,2-Dichloroethene	0.070		0.011	0.14	0.025	0.014	0.039	ND (0.0050)	0.019	ND (0.0050)	0.0070	0.020
Tetrachloroethene	0.0050		0.0015 J	0.035	0.0018 J	0.0092	0.00086 J	ND (0.0050)	0.68	0.00068 J	0.0034 J	0.015 J
Trichloroethene	0.0050		0.023	0.021	0.0047 J	0.020	0.0035 J	ND (0.0050)	0.083	0.0079	0.015 J	0.051
Vinyl Chloride	0.0020		0.052 JL	0.0053 JL	0.014 JL	0.0024 JL	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020) UJ	0.0011 J

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 2009 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	Location:	MW-119	MW-120		MW-121	MW-124	MW-126	MW-127	MW-128	MW-129	MW-130
		Depth: (b)	28	25		28	29	32	32	40	35	25
		Date:	4/15/2009	4/15/2009	5/4/2009	4/14/2009	4/15/2009	4/13/2009	4/15/2009	4/16/2009	4/15/2009	4/16/2009
1,1-Dichloroethane	4.9		0.00086 J	0.0034 J	0.0046 J	ND (0.0050)	0.0045 J	0.0013 J	ND (0.0050)	ND (0.0050)	0.032	ND (0.0050)
1,1-Dichloroethene	0.0070		0.0032 J	0.0059	0.0083	0.090	0.016	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.18	ND (0.0050)
1,2-Dichloroethane	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00062 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00085 J	ND (0.0050)
cis-1,2-Dichloroethene	0.070		ND (0.0050)	0.0050 J	0.0069	ND (0.0050)	0.018	0.0014 J	0.00065 J	ND (0.0050)	0.0070	ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)	0.045	0.078	ND (0.0050) UJ	0.30	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.021	ND (0.0050)
Trichloroethene	0.0050		ND (0.0050)	0.0058	0.0095	ND (0.0050)	0.046	ND (0.0050)	0.0045 J	0.0024 J	0.017	ND (0.0050)
Vinyl Chloride	0.0020		ND (0.0020)	0.0018 J	0.0024	ND (0.0020) UJ	0.0015 J	0.0030	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)

Constituent	Critical PCLs (a)	Location:	MW-133	MW-135	MW-140	MW-141	MW-142 (c)	MW-143		MW-144		MW-145
		Depth: (b)	30	25	25	30	33	24		25		28
		Date:	4/13/2009	4/14/2009	4/14/2009	4/13/2009	4/14/2009	4/13/2009	5/4/2009	4/13/2009	5/4/2009	4/13/2009
1,1-Dichloroethane	4.9		0.0024 J	0.0022 J	0.013	0.032	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00071 J	ND (0.0050)
1,1-Dichloroethene	0.0070		0.0063	0.0039 J	0.085	0.13	NS	**0.010**	**0.0097**	**0.031**	**0.041**	ND (0.0050)
1,2-Dichloroethane	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00050 J	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.070		0.00059 J	0.0024 J	0.0017 J	0.0071	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)	0.022 J	0.00060 J	0.0029 J	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050		ND (0.0050)	0.0021 J	0.00070 J	0.0025 J	NS	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) UJ	0.0024	0.0072	NS	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)

Constituent	Critical PCLs (a)	Location:	MW-149	MW-166	MW-167	MW-169	MW-02(C)	MW-02(S)	MW-03(S)
		Depth: (b)	27	35	38	35	23	23	23
		Date:	4/14/2009	4/16/2009	4/16/2009	4/16/2009	4/13/2009	4/16/2009	4/16/2009
1,1-Dichloroethane	4.9		ND (0.0050)	0.0023 J	0.0041 J	ND (0.0050)	NA	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.0070		ND (0.0050)	0.030	0.034	ND (0.0050)	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)	NA	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.070		0.0012 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050		0.011	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050		0.0030 J	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)

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 4

Summary of Surface Water Data
First Half 2009 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	80% Critical PCL (a)	Location:	SWD-12	SWD-14	SWD-15
			Date:	4/14/2009	4/14/2009	4/14/2009
1,1-Dichloroethane	5.13	4.10		0.0024 J	0.0016 J	0.0021 J
1,1-Dichloroethene	0.06	0.05		0.0017 JL	0.0043 JL	0.029 JL
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)	0.00071 J	0.0023 J
Tetrachloroethene	0.790	0.632		ND (0.0050) UJ	0.00079 J	0.0013 J
Trichloroethene	1.110	0.888		ND (0.0050) UJ	ND (0.0050) UJ	0.0046 J
Vinyl Chloride	0.0336	0.0269		ND (0.0020) UJ	ND (0.0020) UJ	0.0012 J

Constituent	Critical PCLs (a)	80% Critical PCL (a)	Location:	SWD-17	SWD-18	SWD-20
			Date:	4/14/2009	4/14/2009	4/14/2009
1,1-Dichloroethane	5.13	4.10		ND (0.0050)	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.06	0.05		0.0050 JL	0.0025 JL	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		0.0017 J	0.00080 J	ND (0.0050)
Tetrachloroethene	0.790	0.632		0.011 J	0.0063 J	ND (0.0050) UJ
Trichloroethene	1.110	0.888		0.0010 J	ND (0.0050) UJ	ND (0.0050)
Vinyl Chloride	0.0336	0.0269		ND (0.0020) UJ	ND (0.0020) UJ	ND (0.0020) UJ

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.