

December 10, 2008

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. 0091505

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

Subject: Second Half 2008 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 to the Texas Commission on Environmental Quality (TCEQ) for your records. The objectives of this transmittal is to determine if additional ground water or surface water samples should be collected during the next quarter (January 2009) at selected locations to meet the response action objectives for the Former Cameron Iron Works Facility (the facility). A summary table (Table 1) has been created to convey this information, as well as the future course of action for the area.

A semiannual ground water and surface water sampling event was completed in October 2008. Additionally, monitor wells installed to delineate affected ground water at MW-70 were sampled during the second half of 2008. MW-98, KMW-07, and MW-62 were, re-sampled in November to confirm the concentrations that were reported for the semiannual sampling event. MW-17R was inaccessible in October because of construction trailers parked over the monitor well and was sampled in November.

A summary of the ground water analytical data for the trigger wells collected during the second half of 2008 is presented in Table 2. Table 3 is a summary of the analytical results for samples collected at non-trigger wells located north and south of I-10 during the second half of 2008. The ground water analytical results were compared to the response action items outlined in the *Response Action Plan* (RAP) dated August 28, 2003 and summarized in Table 1.

The reported surface water concentrations, summarized on Table 4, 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, with the exception of SWD-15. The concentration of 1,1-dichloroethene was reported above the 80% PCL value, but below the critical PCL.

Conclusions

The following response actions will be performed to meet the requirements of the RAP in the next three months:

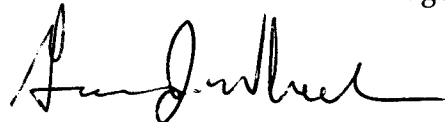
- MW-70 was confirmed with four consecutive quarters above PCL. MW-170, MW-171, and MW-172 will replace MW-70 as trigger wells.
- COC concentrations will be monitored in ground water at MW-125, MW-167, MW-170, MW-171, and MW-172 on a quarterly basis;
- COC concentrations will be monitored in ground water at MW-71, MW-72, MW-74, MW-77, MW-80, MW-81, MW-84, MW-85R, MW-86, MW-93, MW-95, MW-97, MW-98, MW-117, MW-119, MW-122, MW-123, MW-131, MW-132, MW-139, MW-146, MW-168, and MW-170 on a semiannual basis;
- In the areas of MW-78, MW-79, MW-93, MW-96, and MW-125, monitor/injection wells will be monitored and level of permanganate will be maintained to address affected ground water at these locations; and
- A surface water sample will be collected at SWD-15 during January 2009 and analyzed for 1,1-dichloroethene.

The quality assurance/quality control data and analytical laboratory reports will be provided in the 2008 Annual Ground Water Monitoring Report and Field Activities Summary, which should be submitted to your attention in January 2009. This report will also include the well reports for the monitor wells installed during 2008.

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

Sincerely,

Environmental Resources Management Southwest, Inc.



Gregory J. Wheeler, P.G.
Associate

GJW/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)
Clayton Trier, Stablewood Property Owners Association
James Elkins III, Houston Trust Company
Scott Himes, Environmental Resources Management (Houston)

Tables
Attachment 1

December 10, 2008
Project No. 0091505

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
Second Half 2008 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

<u>Well</u>	<u>COCs elevated above MQL</u>	<u>COCs elevated above PCL</u>	<u>Need for Additional Notification (Yes or No)</u>	<u>In-situ Treatment (Yes or No)</u>	<u>Sampling Frequency</u>
MW-125	tetrachloroethene	tetrachloroethene	no (a)	yes (b)	Quarterly
MW-167	1,1-dichloroethene	1,1-dichloroethene	no (a)	yes (b)	Quarterly
MW-170	1,1-dichloroethene, cis-1,2-dichloroethene, trichloroethene	1,1-dichloroethene, trichloroethene	no (a)	no (c)	Quarterly
MW-172	1,1-dichloroethene	1,1-dichloroethene	yes	no (c)	Quarterly
SWD-15	1,1-dichloroethene	(d) none	no	no	Quarterly

NOTES:

COCs = Chemicals of Concern

MQL = Method Quantitation Limit

PCL = Protective Concentration Level

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

(b) Injection wells located in this area have been injected with sodium permanganate during August 2008. This area is being gauged regularly for the presence of permanganate. Additional permanganate will be injected during 2009.

(c) MW-170 and MW-172 will continue to be monitored on a quarterly basis until the reported concentrations are confirmed with four consecutive quarters of reported concentrations above the critical PCL.

(d) 1,1-dichloroethene exceeded 80% critical PCL at SWD-15.

TABLE 2

Summary of Monitor Well Ground Water Data for Trigger Wells
Second Half 2008 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	MQL	Critical PCLs (a)	Location:	MW-71	MW-72	MW-74	MW-77	MW-80	MW-81	MW-84	MW-85R	MW-86	MW-93 (c)
			Depth: (b)	25	24	27	37	38	35	38	29	40	43
			Date:	10/15/2008	10/16/2008	10/15/2008	10/13/2008	10/13/2008	10/15/2008	10/15/2008	10/13/2008	10/13/2008	10/13/2008
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)	NS
1,1-Dichloroethene	0.0050	0.0070	ND (0.0050)	ND (0.0050)	0.0034 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0040 J	ND (0.0050)	ND (0.0050)	NS
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)	0.00052 J	NS
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)	NS
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)	NS
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)	NS
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)	NS

Constituent	MQL	Critical PCLs (a)	Location:	MW-95	MW-97	MW-98	MW-117	MW-119	MW-122	MW-123	MW-125	MW-131
			Depth: (b)	30	33	36	25	28	28	28	32	32
			Date:	10/14/2008	10/15/2008	10/16/2008 (d)	11/14/2008	10/17/2008	10/16/2008	10/13/2008	10/15/2008	10/15/2008
1,1-Dichloroethane	0.0050	4.9	ND (0.0050)	0.00051 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0010 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.0050	0.0070	ND (0.0050)	0.0027 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0037 J	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)
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)	0.00052 J	ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050	0.0050	ND (0.0050)	ND (0.0050)	0.0083	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.016	ND (0.0050)
Trichloroethene	0.0050	0.0050	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0029 J	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)

Constituent	MQL	Critical PCLs (a)	Location:	MW-132	MW-139	MW-146	MW-167	MW-168	MW-170	MW-171	MW-172
			Depth: (b)	30	25	30	38	35	25'	25'	25'
			Date:	10/15/2008	10/13/2008	10/13/2008	10/14/2008	10/14/2008	10/14/2008	10/14/2008	10/14/2008
1,1-Dichloroethane	0.0050	4.9	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0036 J	ND (0.0050)	ND (0.0050)	0.0016 J	0.0014 J	0.0022 J
1,1-Dichloroethene	0.0050	0.0070	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.045	ND (0.0050)	0.010	0.0012 J	0.013	
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)
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)	0.0073	0.00070 J	0.0021 J
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)	ND (0.0050)	0.013	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)

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.

(d) Based on historical concentrations, the reported concentrations appear to be anomalous. The results of the November 14, 2008 confirmation sample confirm that the reported concentrations on October 16, 2008 are anomalous.

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

TABLE 3

Summary of Monitor Well Ground Water Data
Second Half 2008 Monitoring Data TransmittalFormer Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	Location:											
		KMW-07		KMW-13 (d)	KMW-14	MW-01	MW-02	MW-07R	MW-15R	MW-16R	MW-17R	MW-35	MW-44
		Depth: (b)	25	25	25	25	25	25	20	20	20	33	25
Date:	10/16/2008	(c) 11/19/2008	10/13/2008	10/16/2008	10/17/2008	10/16/2008	10/21/2008	10/16/2008	10/16/2008	11/14/2008	10/17/2008	10/16/2008	
1,1-Dichloroethane	4.9	NA	NA	NS	NA	NA	NA	0.0078	0.035	ND (0.0050)	NA	NA	
1,1-Dichloroethene	0.0070	0.38	ND (0.0050)	NS	ND (0.0050)	0.0050 J	ND (0.0050)	0.0069	0.020	0.12	ND (0.0050)	ND (0.0050)	0.037
1,2-Dichloroethane	0.0050	NA	NA	NS	NA	NA	NA	NA	ND (0.0050)	0.00069 J	ND (0.0050)	NA	NA
cis-1,2-Dichloroethene	0.070	14	ND (0.0050)	NS	0.0013 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0064	0.16	ND (0.0050)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050	0.16	ND (0.0050)	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.012	0.042	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050	1.1	ND (0.0050)	NS	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0039 J	0.097	ND (0.0050)	ND (0.0050)	ND (0.0050)
Vinyl Chloride	0.0020	0.14	ND (0.0020)	NS	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.016	ND (0.0020)	ND (0.0020)	0.0098

Constituent	Critical PCLs (a)	Location:											
		MW-48	MW-50	MW-52	MW-54	MW-59	MW-60	MW-61	MW-62		MW-64	MW-65	MW-70
		Depth: (b)	30	32	25	30	25	34	23	25		25	25
Date:	10/16/2008	10/16/2008	10/13/2008	10/17/2008	10/14/2008	10/14/2008	10/13/2008	10/16/2008 (c) 11/19/2008		10/13/2008	10/13/2008	10/14/2008	
1,1-Dichloroethane	4.9	NA	NA	NA	NA	ND (0.0050)	ND (0.0050)	ND (0.0050)	NA	NA	NA	NA	0.036
1,1-Dichloroethene	0.0070	1.3	35	0.076	0.64	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.41	0.00084 J	ND (0.0050)	0.0025 J	0.025
1,2-Dichloroethane	0.0050	NA	NA	NA	NA	ND (0.0050)	ND (0.0050)	ND (0.0050)	NA	NA	NA	NA	0.00051 J
cis-1,2-Dichloroethene	0.070	0.025	0.71	ND (0.0050)	22	ND (0.0050)	ND (0.0050)	ND (0.0050)	13	ND (0.0050)	ND (0.0050)	0.0021 J	0.10
Tetrachloroethene	0.0050	0.11	0.038	ND (0.0050)	0.19	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.17	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0024
Trichloroethene	0.0050	0.0092	0.72	ND (0.0050)	1.5	ND (0.0050)	ND (0.0050)	ND (0.0050)	1.2	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.038
Vinyl Chloride	0.0020	0.085	3.2	0.0039	0.20	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.15	ND (0.0020)	ND (0.0020)	0.0024	0.0052

Constituent	Critical PCLs (a)	Location:											
		MW-73	MW-75R	MW-76	MW-78	MW-79	MW-82	MW-83	MW-87	MW-88 (e)	MW-89	MW-90	MW-91
		Depth: (b)	25	33	31	32	40	31	30	32	38	37	35
Date:	10/16/2008	10/14/2008	10/15/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/16/2008	10/16/2008
1,1-Dichloroethane	4.9	0.0089	0.015	0.00052 J	0.026	0.019	0.027	0.064	0.0080	NS	0.0053	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.0070	0.043	0.0053	ND (0.0050)	0.14	0.16	0.12	0.20	0.027	NS	0.023	0.010	0.0077
1,2-Dichloroethane	0.0050	0.00078 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00063 J	0.0012 J	0.0015 J	0.0012 J	NS	0.00065 J	ND (0.0050)	ND (0.0050)
cis-1,2-Dichloroethene	0.070	0.0034 J	ND (0.0050)	0.0015 J	0.00094 J	0.0028 J	0.010	0.0042 J	0.0013 J	NS	0.0083	0.0040 J	0.0042 J
Tetrachloroethene	0.0050	0.0017 J	ND (0.0050)	0.0033 J	ND (0.0050)	ND (0.0050)	0.016	0.0011 J	ND (0.0050)	NS	ND (0.0050)	0.56	0.63
Trichloroethene	0.0050	0.014	ND (0.0050)	0.0011 J	ND (0.0050)	ND (0.0050)	0.0098	0.0018 J	0.0054	NS	0.042	0.024	0.012
Vinyl Chloride	0.0020	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.0037	0.0028	ND (0.0020)	0.0066	ND (0.0020)	NS	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 dated April 23, 2008.

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

(c) Based on historical concentrations, the reported concentrations appear to be anomalous. The results of the November 19, 2008 confirmation sample confirm that the reported concentrations on October 16, 2008 are anomalous.

(d) KMW-13 was inaccessible due to high water in the area.

(e) Not sampled due to permanganate in well.

J = Estimated data.

TABLE 3 (Cont'd)

Summary of Monitor Well Ground Water Data
Second Half 2008 Monitoring Data TransmittalFormer Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	Location:	MW-92	MW-94	MW-96	MW-99	MW-100	MW-101	MW-102	MW-106	MW-107	MW-108	MW-109	MW-110
		Depth: (b)	43	25	33	32	31	30	45	42	42	27	26	27
		Date:	10/15/2008	10/13/2008	10/14/2008	10/14/2008	10/13/2008	10/14/2008	10/16/2008	10/14/2008	10/16/2008	10/14/2008	10/13/2008	10/13/2008
1,1-Dichloroethane	4.9		ND (0.0050)	ND (0.0050)	0.0024 J	ND (0.0050)	0.00094 J	0.0065	ND (0.0050)	ND (0.0050)	ND (0.0050)	NA	NA	NA
1,1-Dichloroethene	0.0070		ND (0.0050)	ND (0.0050)	0.034	0.0024 J	0.0036 J	0.026	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.35	0.16	0.20
1,2-Dichloroethane	0.0050		ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0019 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	NA	NA	NA
cis-1,2-Dichloroethene	0.070		0.0025 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.00082 J	0.0059	0.0023 J	ND (0.0050)	0.0031 J	0.0090	0.18	0.034
Tetrachloroethene	0.0050		0.69	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.11	0.54	0.071	0.77	0.00070 J	0.031	0.0034 J
Trichloroethene	0.0050		0.0032 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.016	0.0028 J	0.00093 J	0.0092	0.018	0.041	0.0055
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)	0.057	0.0084	0.013

Constituent	Critical PCLs (a)	Location:	MW-111	MW-112	MW-113	MW-114	MW-115	MW-116	MW-118	MW-120	MW-121	MW-124	MW-126	MW-127
		Depth: (b)	26	26	27	32	34	27	27	25	28	29	32	32
		Date:	10/13/2008	10/13/2008	10/13/2008	10/15/2008	10/17/2008	10/13/2008	10/16/2008	10/13/2008	10/16/2008	10/15/2008	10/15/2008	10/13/2008
1,1-Dichloroethane	4.9		NA	NA	NA	0.0047 J	0.0080 J	0.0015 J	0.015	ND (0.0050)	ND (0.0050)	0.0061	0.0083	ND (0.0050)
1,1-Dichloroethene	0.0070		ND (0.0050)	0.0049 J	ND (0.0050)	0.054	1.5	0.019	0.16	ND (0.0050)	0.066	0.019	0.0063	ND (0.0050)
1,2-Dichloroethane	0.0050		NA	NA	NA	0.0025 J	0.012	ND (0.0050)	0.00090 J	ND (0.0050)	ND (0.0050)	0.00071 J	0.0018 J	ND (0.0050)
cis-1,2-Dichloroethene	0.070		0.0085	0.016	ND (0.0050)	0.019	0.00052 J	0.0028 J	0.017	ND (0.0050)	ND (0.0050)	0.019	0.014	ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)	0.0032 J	ND (0.0050)	0.86	0.00090 J	0.00072 J	0.014	ND (0.0050)	ND (0.0050)	0.45	0.015	ND (0.0050)
Trichloroethene	0.0050		0.0016 J	0.0022 J	ND (0.0050)	0.076	0.0094	0.0081	0.055	ND (0.0050)	0.00076 J	0.066	0.0034 J	ND (0.0050)
Vinyl Chloride	0.0020		0.0022	0.0027	ND (0.0020)	ND (0.0020)	ND (0.0020)	ND (0.0020)	0.00078 J	ND (0.0020)	ND (0.0020)	0.0015 J	0.0041	ND (0.0020)

Constituent	Critical PCLs (a)	Location:	MW-128	MW-129	MW-130	MW-133	MW-143	MW-144	MW-145	MW-166	MW-169	MW-02(C)	MW-02(S)	MW-03(S)
		Depth: (b)	40	35	25	30	24	25	28	35	35	23	23	23
		Date:	10/13/2008	10/13/2008	10/14/2008	10/15/2008	10/13/2008	10/13/2008	10/13/2008	10/13/2008	10/15/2008	10/14/2008	10/17/2008	10/14/2008
1,1-Dichloroethane	4.9		ND (0.0050)	0.039	NA	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0016 J	ND (0.0050)	NA	NA	NA
1,1-Dichloroethene	0.0070		0.00082 J	0.41	ND (0.0050)	ND (0.0050)	0.0036 J	ND (0.0050)	ND (0.0050)	0.023	ND (0.0050)	0.0017 J	ND (0.0050)	ND (0.0050)
1,2-Dichloroethane	0.0050		ND (0.0050)	0.0012 J	NA	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	NA	NA	NA
cis-1,2-Dichloroethene	0.070		0.00059 J	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)	ND (0.0050)	ND (0.0050)
Tetrachloroethene	0.0050		ND (0.0050)	0.031	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)	0.0013 J	ND (0.0050)	ND (0.0050)	ND (0.0050)	ND (0.0050)
Trichloroethene	0.0050		0.0017 J	0.018	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		ND (0.0020)	0.00061 J	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.

0.028 = 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 dated April 23, 2008.

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

(c) Based on historical concentrations, the reported concentrations appear to be anomalous. The results of the November 14, 2008 confirmation sample confirm that the reported concentrations on October 16, 2008 are anomalous.

(d) KMW-13 was inaccessible due to high water in the area.

(e) Not sampled due to permanganate in well.

J = Estimated data.

TABLE 4

Summary of Surface Water Data
Second Half 2008 Monitoring Data Transmittal

Former Cameron Iron Works Facility
Houston, Texas

Constituent	Critical PCLs (a)	80% Critical PCL (a)	Location: Date:	SWD-12	SWD-14	SWD-15
				10/13/2008	10/13/2008	10/13/2008
1,1-Dichloroethane	5.13	4.10		0.0039 J	0.0050	0.0021 J
1,1-Dichloroethene	0.06	0.05		0.0042 J	0.022	0.058
1,2-Dichloroethane	0.554	0.443		ND (0.0050)	ND (0.0050)	0.00067 J
cis-1,2-Dichloroethene	9.36	7.49		ND (0.0050)	0.0032 J	0.0019 J
Tetrachloroethene	0.790	0.632		ND (0.0050)	0.0031 J	0.0011 J
Trichloroethene	1.110	0.888		ND (0.0050)	0.0033 J	0.0022 J
Vinyl Chloride	0.0336	0.0269		ND (0.0020)	0.0018 J	0.0014 J

Constituent	Critical PCLs (a)	80% Critical PCL (a)	Location: Date:	SWD-17	SWD-18	SWD-20
				10/13/2008	10/13/2008	10/13/2008
1,1-Dichloroethane	5.13	4.10		0.00061 J	ND (0.0050)	ND (0.0050)
1,1-Dichloroethene	0.06	0.05		0.0064	0.0048 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		0.0026 J	0.0020 J	ND (0.0050)
Tetrachloroethene	0.790	0.632		0.0088	0.0067	ND (0.0050)
Trichloroethene	1.110	0.888		0.0011 J	0.00077 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.

Bold value exceeds 80% PCL.

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.