#57423

Terracon

June 29, 2009

State Remediation Section
Bureau of Land and Waste Management
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201-1708

RECEIVED
JUL 02 2009
SITE ASSESSMENT, REMEDIATION & REVITALIZATION

Attn: Ms. Keisha D. Long
PHN: 803 896 4872
Email: longkd@dhec.sc.gov

Re: Response to Comments dated May 7, 2009
Remedial Investigation Phase I Report
Castlebridge Properties, LLC
File # 057423

Dear Ms Long:

On behalf of Castlebridge Properties, LLC, Terracon Consultants, Inc. (Terracon) has reviewed comments issued by the South Carolina Department of Health and Environmental Control (SCDHEC) upon reviewing the Remedial Investigation Phase I Report (Terracon, March 6, 2009). A summary of Terracon's response to the comments is provided below. Copies of report pages, figures, and tables are provided as an attachment.

GENERAL COMMENTS:

1. Section 3.4, Surface Water Analytical Results: Analytical tests showed a TCE concentration of 27 ppb in the interior plastic storm water basin. Measures need to be taken to evacuate this liquid and dispose of it properly. The basin should also be secured so to prevent additional water from entering the basin.

Terracon visited the site on June 15, 2009 to determine the amount of water in the basin requiring disposal. Dimensions of the basin measured approximately 14.5 feet square by 9.75 feet deep. The total volume of water requiring disposal is approximately 15,300 gallons. Terracon is currently reviewing options for disposal of the water. Once disposal of the water has been completed, Terracon will submit to the SCDHEC project manager a brief report summarizing disposal activities and measures taken to prevent future infiltration of water into the basin.

SPECIFIC COMMENTS:

2. Section 2.1, Soil Assessment: Please submit the XRF data that was collected during the site assessment activities.

Data from the XRF screening activities has been formatted and provided as Table 6 in the attachment.

3. Section 5.1, Shallow Monitoring Well Installation: The document says that monitoring well elevations will be surveyed relative to an arbitrary or actual datum. The Department requests a GPS survey or survey to a known common datum point to record the groundwater wells on the Site.

Page 12, Paragraph 1 has been revised to state the permanent monitoring well locations and top of casing elevations will be surveyed by a professional surveyor licensed in South Carolina to an established site benchmark and mean sea level. A copy of the revised page is provided in the attachment.

4. Section 5.5, Groundwater Purging: Please include turbidity as one of the field parameters used to determine the representativeness of groundwater prior to sampling.

Page 13, Paragraph 4 has been revised to include turbidity as a field parameter. A copy of the revised page is provided in the attachment.

5. Figure 4A, Groundwater Sample Location Map: The legend in the figure indicates that the numbers in parentheses on the figure are groundwater sample depths. These numbers actually are the total PCE/TCE concentrations. Please revise this figure.

Figure 4A and Figure 4B have been revised to show the total depth groundwater screening samples were collected. Copies of the revised figures have been included in the attachment.

6. Table 3: The Industrial Regional Screening Level for:

- *Cobalt in soil = 300 ppm,*
- *Lead in soil = 800 ppm, and*
- *Vanadium in soil = 7200 ppm.*

Please revise the table accordingly.

Table 3 has been revised to show Industrial SSLs for the constituents listed above. A copy of the revised table has been provided in the attachment.

Terracon
Consulting Engineers & Scientists

7. Table 5: The MCL for antimony is 6 ppb and for thallium it's 2 ppb. The laboratory practical quantitation limits were above the MCLs for these constituents. Detection limits for these parameters in the future should abide by the MCL or RSL.

Table 5 has been revised to show the MCLs for the constituents listed above. A copy of the revised table has been provided in the attachment. Terracon will instruct the laboratory performing future analyses to reporting limits must meet MCLs and RSLs.

8. Table 5: The MCL for chromium is 100 ppb. The table should be revised accordingly.

Table 5 has been revised to show the MCL for chromium. A copy of the revised table has been provided in the attachment.

Terracon is currently reviewing proposals to perform permanent monitoring well installation. Once a South Carolina certified well driller is selected and a drilling schedule determined, Terracon will notify the Department project manager. If you have any questions or comments regarding the information presented herein, please contact us at 864 292 2901.

Sincerely,

Terracon

Stephen K. Nix
Senior Staff Geologist

Craig D. Eady, P.G.
Senior Geologist

Attachment(s)

Cc: Mr. Thom Morgan, Castlebridge Properties, LLC (w/ Attachment)

TABLE OF CONTENTS

Terracon

Section		Page
1.0	INTRODUCTION	1
1.1	Site Description	1
1.2	Site History	2
1.3	Previous Site Assessments	3
1.4	Site Geology and Hydrogeology	4
2.0	WORK PERFORMED	5
2.1	Soil Assessment	5
2.2	Groundwater Assessment	6
2.3	Sediment Assessment	7
2.4	Surface-Water Assessment	7
3.0	DISCUSSION OF FINDINGS	7
3.1	Soil Analytical Results	8
3.2	Groundwater Analytical Results	9
3.3	Sediment Analytical Results	10
3.4	Surface Water Analytical Results	10
4.0	SUMMARY AND CONCLUSIONS	10
5.0	RECOMMENDATIONS	11

LIST OF FIGURES

Figure 1 Site Location Map
Figure 2 Site Diagram
Figure 3A Soil Sample Location Map – 200 National Avenue
Figure 3B Soil Sample Location Map – 280 National Avenue
Figure 4A Groundwater Sampling Location Map – 200 National Avenue
Figure 4B Groundwater Sampling Location Map – 280 National Avenue
Figure 5A PCE/TCE Isoconcentration Map – 200 National Avenue
Figure 5B PCE/TCE Isoconcentration Map – 280 National Avenue
Figure 6 Surface Water/Sediment Location Map
Figure 7 Proposed Permanent Well Location Map

LIST OF TABLES

Table 1 Comparison of Field Screening Data to Laboratory Data
Table 2 Summary of Organic Constituents in Soil / Sediment Samples
Table 3 Summary of Inorganic Constituents in Soil / Sediment Samples
Table 4 Summary of Organic Constituents in Groundwater / Surface Water Samples
Table 5 Summary of Inorganic Constituents in Groundwater / Surface Water Samples
Table 6 Summary of XRF Soil Screening Data

LIST OF APPENDICES

Appendix A Soil Boring Logs and Temporary Well Diagrams
Appendix B Laboratory Report of Analysis
Appendix C Site Photographs

boring to approximately two feet above the top of the well screen, followed by two feet of hydrated bentonite pellets above the sand pack and cement/bentonite slurry to the surface. The surface completion will consist of an 8-inch flush-mounted steel protective cover or a 4-inch square steel standup protective cover set in a 2X2-foot square concrete pad, depending on site location. **The monitoring well locations and top of casing elevations will be surveyed by a professional surveyor licensed in South Carolina to an established site benchmark and mean sea level (MSL).**

5.2 Deep Monitoring Well Installation

Four (4) 2-inch (Type II) top of bedrock monitoring wells will be installed at the site with two wells proposed at the west end (rear) of the 200 National Avenue building and two wells proposed at the west end of the 280 National Avenue building near the septic tank line and the south end of the 280 National Avenue building. The location of the deep monitoring wells is shown on Figure 7.

The borings for the monitoring wells will be initially drilled with 4-1/4-inch I.D. hollow stem augers to the point of auger refusal. Afterwards, a NQ wireline corebarrel will be inserted through the augers and a 3.5-inch borehole will be extended five feet into competent bedrock. The well will be installed with ten to fifteen feet of 2-inch PVC screen and casing, gravel pack and bentonite seal through the hollow stem augers. Afterwards, the well will be grouted and well surface completions installed as specified for the shallow wells.

5.3 Well Development and IDW Management

The monitoring wells will be developed by surging and removing groundwater until fluids appear relatively free of sediment. All investigative derived waste (IDW; i.e., soil cuttings, development purge water) will be temporarily secured on-site in labeled 55-gallon drums pending the results of the laboratory analyses. The drum labels will identify the contents of the drum, well/boring location and the initial accumulation date. All IDW will be properly disposed in accordance with state regulations and upon regulatory approval.

5.4 Groundwater Sample Collection

Prior to groundwater purging and sampling, the depth to groundwater will be measured at each well using an electric water level indicator. The water level indicator will be decontaminated before and after use at each well. Water levels will be measured in the wells which have the least amount of known contamination first. Wells with known or suspected contamination will be measured last. All groundwater level measurements will be made in reference to the established reference point which will be the top of the well casing. Groundwater level measurements will be recorded and the calculated elevations will be

reported to the nearest 0.01 foot. In addition, the total depth of the well will also be measured in reference to the top of the well casing. The water level and total depth measurements will be recorded in a bound field notebook and the groundwater sampling log. A copy of the groundwater sampling log is included as an attachment.

5.5 Groundwater Purging

Monitoring wells will be purged prior to sample collection to remove any stagnant water from the well so that the groundwater sample collected will be representative of the groundwater quality in the vicinity of each well. For wells that recover quickly, a minimum of three volumes of water will be evacuated. Wells that evacuate to dryness with less than three well volumes being removed will be sampled as soon as the well has recovered enough to yield sufficient volume to collect the sample. Purge volumes will be calculated based on the total well depth, standing water level and the casing diameter as determined from the groundwater sampling log.

The monitoring wells will be purged using new disposable polyethylene bailers attached to new polypropylene cord. Purged groundwater will be collected in a measured bucket to monitor the purge volume. Water purged from the wells (investigative derived waste) will be properly stored and secured on site until analysis of the waste purge water has been received and appropriate disposal can be arranged.

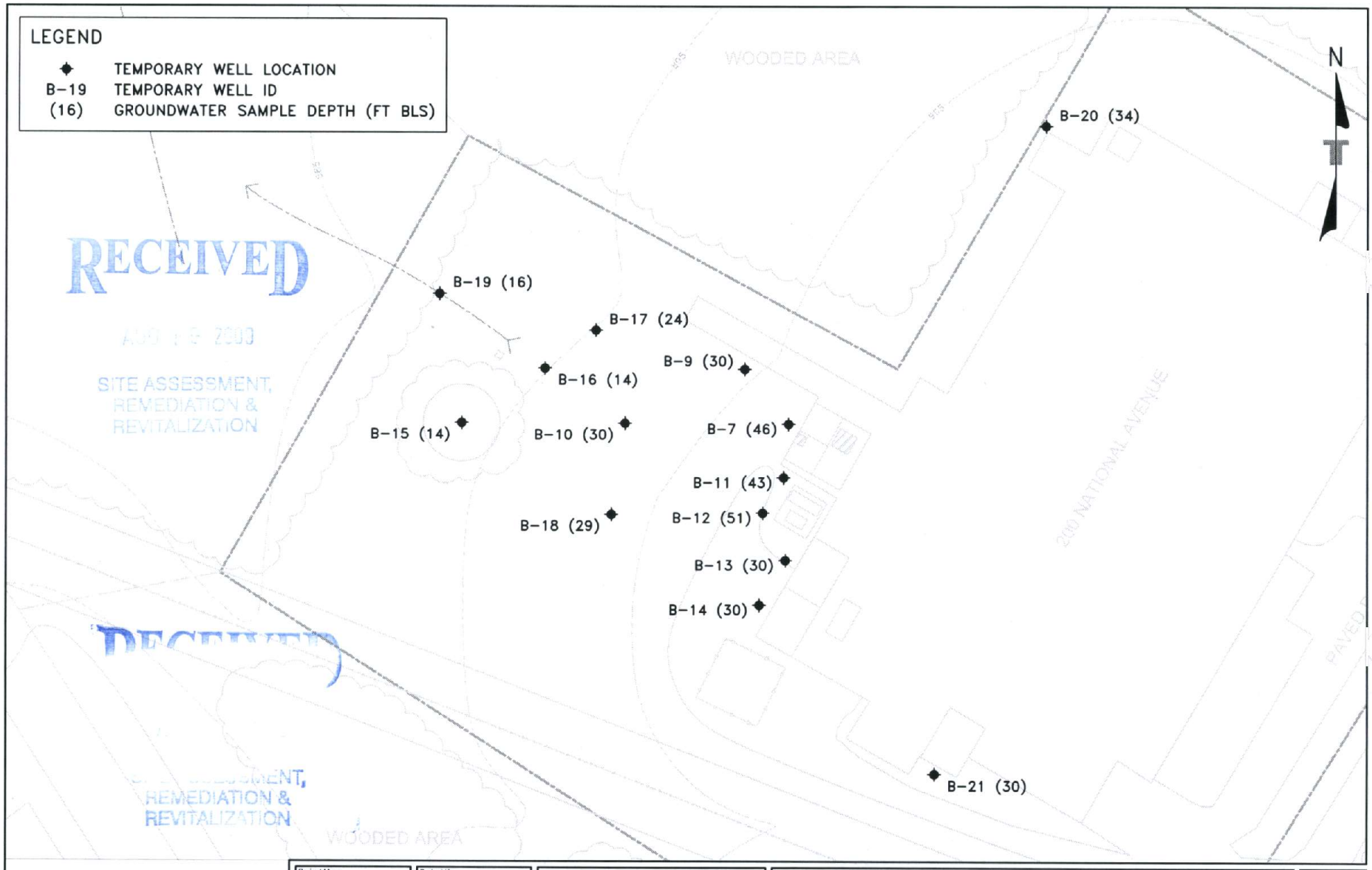
During the purging process, the field parameters of temperature, pH, specific conductance, and turbidity will be measured periodically to insure representative groundwater is obtained. The measurements will be taken frequently to provide a sufficient number of measurements to evaluate stability. Water quality is considered stable if for at least three consecutive readings:

- pH measurements remain constant within 0.1 Standard Unit (SU),
- Specific conductance varies no more than 10 percent (between the three readings, not compared to an average value), and
- Temperature is constant.

The field measurements will be recorded in the field notebook and the groundwater sampling log

5.6 Groundwater Sampling

Upon completion of the purging activities, groundwater samples will be collected from all site monitoring wells. Based on the screening results, the primary constituents of concern are volatile organic compounds. Therefore, groundwater samples for VOCs will be collected



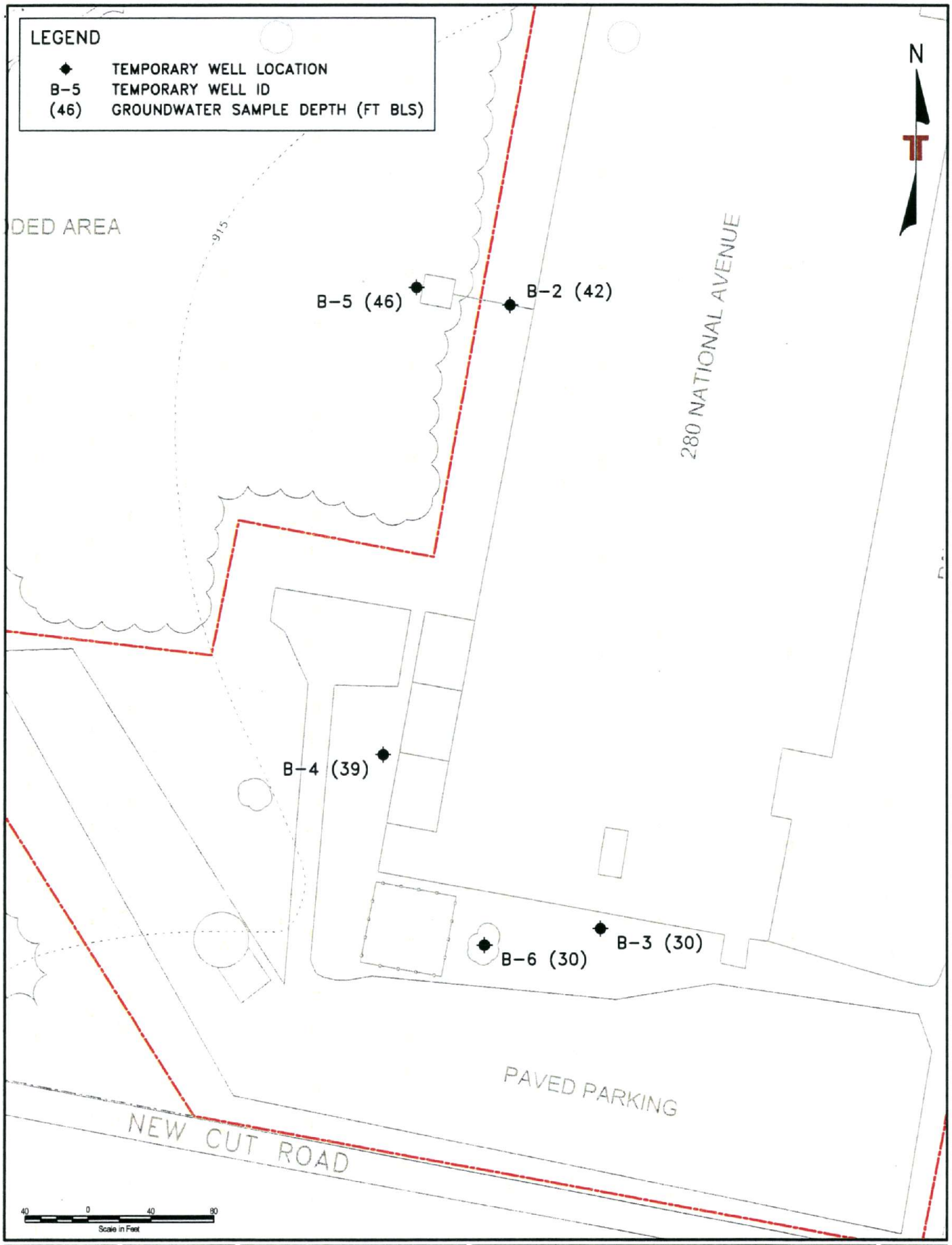
50 0 50 100
Scale in Feet

Project Mngr:	CDE
Drawn By:	SKN
Checked By:	CDE
Approved By:	CDE
Project No:	86077044
Scale:	AS SHOWN
File Name:	86077044\7044RIFIGURES.DWG
Date:	12/01/2008

Terracon
Consulting Engineers and Scientists
3534 RUTHERFORD ROAD TAYLORS, SC 29687
PH. (864) 292-2901 FAX (864) 292-6361

GROUNDWATER SAMPLE LOCATION MAP
REMEDIAL INVESTIGATION PHASE I REPORT
CASTLEBRIDGE PROPERTIES, LLC PROPERTY
200 NATIONAL AVENUE
SPARTANBURG, SPARTANBURG COUNTY SOUTH CAROLINA

FIG No.
4A



Project Mngr: CDE	Project No: 86077044	Terracon Consulting Engineers and Scientists	GROUNDWATER SAMPLE LOCATION MAP
Drawn By: SKN	Scale: AS SHOWN	3534 RUTHERFORD ROAD TAYLORS, SC 29687	REMEDIAL INVESTIGATION PHASE I REPORT
Checked By: CDE	File Name: 86077044\7044RIFIGURES.DWG	PH: (864) 292-2901 FAX: (864) 292-6361	CASTLEBRIDGE PROPERTIES, LLC PROPERTY
Approved By: CDE	Date: 12/01/2008		280 NATIONAL AVENUE
			SPARTANBURG, SPARTANBURG COUNTY SOUTH CAROLINA

FIG No. 4B

RECEIVED
AUG 1 0 2009
SITE ASSESSMENT, REMEDIATION & REVITALIZATION

Table 3
Summary of Inorganic Constituents in Soil / Sediment Samples
Remedial Investigation Phase I Report
Voluntary Cleanup Contract 07-5217-RP

Constituent	Industrial SSL[1]	280 National Avenue		200 National Avenue							
		B-2(25)	B-4(25)	B-7(22.5)	B-9(17.5)	B-10(0)	B-11(15)	B-12(7.5)	B-15(2.5)	B-16(2.5)	B-19(5)
		30-Sep-08	30-Sep-08	1-Oct-08	2-Oct-08	1-Oct-08	2-Oct-08	2-Oct-08	3-Oct-08	3-Oct-08	3-Oct-08
Aluminum	990,000	**38,000**	**110,000**	**34,000**	**120,000**	**120,000**	**46,000**	**82,000**	**100,000**	**120,000**	**100,000**
Antimony	NA[2]	*< 1.2*	*< 6.6*	*< 3.4*	*< 3*	*< 3.3*	*< 3.3*	*< 6.4*	*< 3.2*	*< 6.5*	*< 3.4*
Arsenic	1.6	*< 0.62*	**6.3**	*< 0.68*	*< 3*	**1.1**	*< 3.3*	*< 6.4*	*< 3.2*	*< 6.5*	*< 3.4*
Barium	190,000	**120**	**48**	**250**	**190**	**150**	**250**	**73**	**240**	**150**	**140**
Beryllium	2,000	*< 2.5*	*< 0.26*	*< 2.7*	**2.7**	*< 2.6*	**2.6**	**1.6**	**2.3**	**1.8**	**1.3**
Cadmium	810	*< 0.25*	*< 1.3*	*< 0.68*	*< 0.61*	*< 0.66*	**0.74**	*< 1.3*	*< 0.63*	*< 1.3*	*< 0.67*
Calcium	NE[3]	*< 310*	**600**	*< 340*	*< 300*	*< 330*	*< 330*	*< 320*	*< 320*	*< 330*	*< 340*
Chromium	1,400	**29**	**79**	**160**	**33**	**81**	**54**	**140**	**75**	**74**	**120**
Cobalt	300	**23**	**3.5**	**41**	**18**	**20**	**37**	**4.1**	**28**	**12**	**11**
Copper	41,000	**25**	**32**	**42**	**51**	**67**	**26**	**47**	**21**	**87**	**35**
Iron	720,000	**26,000**	**71,000**	**45,000**	**40,000**	**60,000**	**58,000**	**66,000**	**52,000**	**69,000**	**55,000**
Lead	800	**12**	**24**	**18**	**22**	**38**	**19**	**32**	**19**	**22**	**19**
Magnesium	NE	**4,000**	**670**	**14,000**	**9,600**	**5,000**	**7,900**	**1,700**	**11,000**	**7,800**	**7,100**
Manganese	23,000	**410**	**96**	**850**	**370**	**380**	**1,200**	**160**	**590**	**280**	**220**
Mercury	NA	*< 0.1*	*< 0.11*	*< 0.11*	*< 0.1*	*< 0.11*	*< 0.11*	*< 0.11*	*< 0.1*	*< 0.11*	*< 0.11*
Nickel	20,000	**23**	*< 26*	**58**	**45**	**54**	**47**	**31**	**40**	**40**	**46**
Potassium	NE	**5,800**	*< 3,300*	**19,000**	**8,000**	**4,900**	**10,000**	*< 3,200*	**8,300**	**5,500**	**5,100**
Selenium	5,100	*< 1.2*	*< 6.6*	*< 3.4*	*< 3*	*< 3.3*	*< 3.3*	*< 6.4*	*< 3.2*	*< 6.5*	*< 3.4*
Silver	5,100	**0.92**	*< 3.3*	**2.2**	*< 1.5*	**1.6**	**3.2**	*< 3.2*	**1.9**	*< 3.3*	*< 1.7*
Sodium	NE	*< 620*	*< 3,300*	*< 1,700*	*< 1,500*	*< 1,600*	*< 1,600*	*< 3,200*	*< 1,600*	*< 3,300*	*< 1,700*
Thallium	66	*< 6.2*	*< 33*	*< 17*	*< 15*	*< 16*	*< 16*	*< 32*	*< 16*	*< 33*	*< 17*
Vanadium	7,200	**43**	**180**	**110**	**110**	**130**	**120**	**140**	**150**	**190**	**170**
Zinc	310,000	**47**	**44**	**91**	**99**	**100**	**200**	**51**	**78**	**75**	**77**

NOTES:

[1] Industrial Soil Screening Level (SSL), Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, RSL Table Update, USEPA, September 2008.

[2] Contaminant not detected in soil samples; screening level Not Applicable (NA).

[3] Industrial SLL Not Established (NE).

- Concentrations reported in mg/kg.
- Bold concentrations indicate contaminant detected in sample above Practical Quantitation Limit (PQL).
- Shaded concentrations indicate contaminant detected in sample above SSL.

Table 3
Summary of Inorganic Constituents in Soil / Sediment Samples
Remedial Investigation Phase I Report
Voluntary Cleanup Contract 07-5217-RP

RECEIVED
AUG 19 2009
SITE ASSESSMENT, REMEDIATION & REVITALIZATION

Constituent	Industrial SSL[1]	200 National Avenue					
		B-20(12.5)	B-21(0)	B-22(3)	SD-1	SD-2	SD-3
		6-Oct-08	6-Oct-08	18-Nov-08	18-Nov-08	18-Nov-08	18-Nov-08
Aluminum	990,000	**43,000**	**71,000**	**100,000**	**45,000**	**5,200**	**26,000**
Antimony	NA[2]	*< 0.56*	*< 2.8*	*< 1.2*	*< 0.64*	*< 0.64*	*< 1.0*
Arsenic	1.6	*< 0.56*	*< 2.8*	*< 5.8*	**3.1**	*< 0.64*	**1.3**
Barium	190,000	**29**	**290**	**96**	**65**	**26**	**67**
Beryllium	2,000	**0.41**	*< 2.3*	**1.2**	**0.86**	*< 0.26*	**0.78**
Cadmium	810	*< 0.11*	*< 0.57*	**0.33**	**0.34**	*< 0.13*	*< 0.21*
Calcium	NE[3]	*< 280*	*< 1,400*	*< 2,900*	**430**	*< 320*	*< 520*
Chromium	1,400	**29**	**75**	**75**	**79**	**5.1**	**34**
Cobalt	300	**2.3**	**24**	**6.9**	**6.7**	*< 1.7*	**2.9**
Copper	41,000	**16**	**46**	**49**	**170**	**1.1**	**43**
Iron	720,000	**27,000**	**48,000**	**55,000**	**27,000**	**1,600**	**11,000**
Lead	800	**17**	**26**	**35**	**170**	**1.8**	**38**
Magnesium	NE	**640**	**10,000**	**3,200**	**2,000**	**660**	**1,500**
Manganese	23,000	**30**	**480**	**180**	**190**	**22**	**67**
Mercury	NA	*< 0.093*	*< 0.094*	*< 0.096*	*< 0.10*	*< 0.11*	*< 0.17*
Nickel	20,000	**13**	**45**	**33**	**18**	*< 2.6*	**10**
Potassium	NE	**460**	**10,000**	**3,100**	**2,100**	**510**	**1,400**
Selenium	5,100	*< 0.56*	*< 2.8*	*< 5.8*	**3.5**	*< 0.64*	**1.4**
Silver	5,100	*< 0.28*	**2.0**	*< 0.58*	*< 0.32*	*< 0.32*	*< 0.52*
Sodium	NE	*< 280*	*< 1,400*	*< 2,900*	*< 320*	*< 320*	*< 520*
Thallium	66	*< 2.8*	*< 14*	*< 29*	*< 3.2*	*< 3.2*	*< 5.2*
Vanadium	7,200	**74**	**120**	**150**	**70**	**5.8**	**38**
Zinc	310,000	**23**	**130**	**71**	**240**	**18**	**72**

NOTES:

[1] Industrial Soil Screening Level (SSL), Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, RSL Table Update, USEPA, September 2008.

[2] Contaminant not detected in soil samples; screening level Not Applicable (NA).

[3] Industrial SSL Not Established (NE).

- Concentrations reported in mg/kg.
- Bold concentrations indicate contaminant detected in sample above Practical Quantitation Limit (PQL).
- Shaded concentrations indicate contaminant detected in sample above SSL.

RECEIVED

SITE ASSESSMENT, REMEDIATION & REVITALIZATION

Table 4
Summary of Organic Constituents in Groundwater / Surface Water Samples
Remedial Investigation Phase I Report
Voluntary Cleanup Contract 07-5217-RP

Constituent	MCL[1]	280 National Avenue			
		B-2(42)	B-3(30)	B-4(39)	B-5(46)
		08-Oct-08	06-Oct-08	08-Oct-08	01-Oct-08
1,1,1-Trichloroethane	NA[2]	< 5.0	< 5.0	< 5.0	< 10
1,1,2,2-Tetrachloroethane	NA	< 5.0	< 5.0	< 5.0	< 10
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	< 5.0	< 5.0	< 5.0	< 10
1,1,2-Trichloroethane	NA	< 5.0	< 5.0	< 5.0	< 10
1,1-Dichloroethane	NA	< 5.0	< 5.0	< 5.0	< 10
1,1-Dichloroethene	NA	< 5.0	< 5.0	< 5.0	< 10
1,2,4-Trichlorobenzene	NA	< 5.0	< 5.0	< 5.0	< 10
1,2-Dibromo-3-chloropropane (DBCP)	NA	< 5.0	< 5.0	< 5.0	< 10
1,2-Dibromoethane (EDB)	NA	< 5.0	< 5.0	< 5.0	< 10
1,2-Dichlorobenzene	NA	< 5.0	< 5.0	< 5.0	< 10
1,2-Dichloroethane	NA	< 5.0	< 5.0	< 5.0	< 10
1,2-Dichloropropane	NA	< 5.0	< 5.0	< 5.0	< 10
1,3-Dichlorobenzene	NA	< 5.0	< 5.0	< 5.0	< 10
1,4-Dichlorobenzene	NA	< 5.0	< 5.0	< 5.0	< 10
2-Butanone (MEK)	NA	< 10	< 10	< 10	< 20
2-Hexanone	NA	< 10	< 10	< 10	< 20
4-Methyl-2-pentanone	NA	< 10	< 10	< 10	< 20
Acetone	NE[3]	< 20	< 20	< 20	< 40
Benzene	NA	< 5.0	< 5.0	< 5.0	< 10
Bromodichloromethane	NA	< 5.0	< 5.0	< 5.0	< 10
Bromoform	NA	< 5.0	< 5.0	< 5.0	< 10
Bromomethane (Methyl bromide)	NA	< 5.0	< 5.0	< 5.0	< 10
Carbon disulfide	NA	< 5.0	< 5.0	< 5.0	< 10
Carbon tetrachloride	NA	< 5.0	< 5.0	< 5.0	< 10
Chlorobenzene	NA	< 5.0	< 5.0	< 5.0	< 10
Chloroethane	NA	< 5.0	< 5.0	< 5.0	< 10
Chloroform	NA	< 5.0	< 5.0	< 5.0	< 10
Chloromethane (Methyl chloride)	NA	< 5.0	< 5.0	< 5.0	< 10
cis-1,2-Dichloroethene	70	**7.6**	< 5.0	< 5.0	**25**
cis-1,3-Dichloropropene	NA	< 5.0	< 5.0	< 5.0	< 10
Cyclohexane	NA	< 5.0	< 5.0	< 5.0	< 10
Dibromochloromethane	NA	< 5.0	< 5.0	< 5.0	< 10
Dichlorodifluoromethane	NA	< 5.0	< 5.0	< 5.0	< 10
Ethylbenzene	NA	< 5.0	< 5.0	< 5.0	< 10
Isopropylbenzene	NA	< 5.0	< 5.0	< 5.0	< 10
Methyl acetate	NA	< 5.0	< 5.0	< 5.0	< 10
Methyl tertiary butyl ether (MTBE)	NA	< 5.0	< 5.0	< 5.0	< 10
Methylcyclohexane	NA	< 5.0	< 5.0	< 5.0	< 10
Methylene chloride	NA	< 5.0	< 5.0	< 5.0	< 10
Styrene	NA	< 5.0	< 5.0	< 5.0	< 10
Tetrachloroethene	5.0	**440**	**29**	< 5.0	**220**
Toluene	NA	< 5.0	< 5.0	< 5.0	< 10
trans-1,2-Dichloroethene	NA	< 5.0	< 5.0	< 5.0	< 10
trans-1,3-Dichloropropene	NA	< 5.0	< 5.0	< 5.0	< 10
Trichloroethene	5.0	**5.3**	< 5.0	< 5.0	**11**
Trichlorofluoromethane	NA	< 5.0	< 5.0	< 5.0	< 10
Vinyl chloride	NA	< 2.0	< 2.0	< 2.0	< 4
Xylenes (total)	NA	< 5.0	< 5.0	< 5.0	< 10

RECEIVED

AUG 19 2009

SITE ASSESSMENT, REMEDIATION & REVITALIZATION

Table 4
Summary of Organic Constituents in Groundwater / Surface Water Samples
Remedial Investigation Phase I Report
Voluntary Cleanup Contract 07-5217-RP

Constituent	MCL[1]	200 National Avenue						
		B-6(30)	B-7(46)	B-7(46)A	B-9(30)	B-10(30)	B-11(43)	B-12(51)
		06-Oct-08	02-Oct-08	02-Oct-08	02-Oct-08	01-Oct-08	02-Oct-08	02-Oct-08
1,1,1-Trichloroethane	NA[2]	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,1-Dichloroethane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,1-Dichloroethene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,2,4-Trichlorobenzene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,2-Dibromo-3-chloropropane (DBCP)	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,2-Dibromoethane (EDB)	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,2-Dichlorobenzene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,2-Dichloroethane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,2-Dichloropropane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,3-Dichlorobenzene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
1,4-Dichlorobenzene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
2-Butanone (MEK)	NA	< 10	< 10	< 20	< 10	< 10	< 10	< 10
2-Hexanone	NA	< 10	< 10	< 20	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	NA	< 10	< 10	< 20	< 10	< 10	< 10	< 10
Acetone	NE[3]	< 20	< 20	< 40	< 20	**28**	< 20	< 20
Benzene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Bromodichloromethane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Bromoform	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Bromomethane (Methyl bromide)	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Carbon disulfide	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Carbon tetrachloride	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Chlorobenzene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Chloroethane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Chloroform	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Chloromethane (Methyl chloride)	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	70	< 5.0	< 5	< 10	**53**	**9.1**	< 5	**14**
cis-1,3-Dichloropropene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Cyclohexane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Dibromochloromethane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Dichlorodifluoromethane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Ethylbenzene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Isopropylbenzene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Methyl acetate	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Methyl tertiary butyl ether (MTBE)	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Methylcyclohexane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Methylene chloride	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Styrene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Tetrachloroethene	5.0	**6.5**	**420**	**330**	**180**	**61**	**76**	**200**
Toluene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Trichloroethene	5.0	< 5.0	< 5	< 10	**47**	< 5	< 5	**6.7**
Trichlorofluoromethane	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5
Vinyl chloride	NA	< 2.0	< 2	< 4	< 2	< 2	< 2	< 2
Xylenes (total)	NA	< 5.0	< 5	< 10	< 5	< 5	< 5	< 5

RECEIVED

2009

SITE ASSESSMENT
REMEDIATION &
REVITALIZATION

Table 4
Summary of Organic Constituents in Groundwater / Surface Water Samples
Remedial Investigation Phase I Report
Voluntary Cleanup Contract 07-5217-RP

Constituent	MCL[1]	200 National Avenue						
		B-13(30)	B-14(30)	B-15(14)	B-16(14)	B-17(24)	B-18(29)	B-19(16)
		02-Oct-08	03-Oct-08	03-Oct-08	03-Oct-08	03-Oct-08	01-Oct-08	03-Oct-08
1,1,1-Trichloroethane	NA[2]	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,1,2,2-Tetrachloroethane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,1,2-Trichloroethane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,1-Dichloroethane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,1-Dichloroethene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,2,4-Trichlorobenzene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,2-Dibromo-3-chloropropane (DBCP)	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,2-Dibromoethane (EDB)	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,2-Dichlorobenzene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,2-Dichloroethane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,2-Dichloropropane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,3-Dichlorobenzene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
1,4-Dichlorobenzene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
2-Butanone (MEK)	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Acetone	NE[3]	**32**	< 20	< 20	< 20	< 20	< 20	< 20
Benzene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Bromodichloromethane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Bromoform	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Bromomethane (Methyl bromide)	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Carbon disulfide	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Carbon tetrachloride	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Chlorobenzene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Chloroethane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Chloroform	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Chloromethane (Methyl chloride)	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
cis-1,2-Dichloroethene	70	**5.9**	**6.6**	< 5.0	< 5.0	< 5.0	< 5	< 5.0
cis-1,3-Dichloropropene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Cyclohexane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Dibromochloromethane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Dichlorodifluoromethane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Ethylbenzene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Isopropylbenzene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Methyl acetate	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Methyl tertiary butyl ether (MTBE)	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Methylcyclohexane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Methylene chloride	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Styrene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Tetrachloroethene	5.0	**21**	**110**	**6.3**	< 5.0	**17**	**290**	**8.1**
Toluene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
trans-1,2-Dichloroethene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
trans-1,3-Dichloropropene	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Trichloroethene	5.0	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Trichlorofluoromethane	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0
Vinyl chloride	NA	< 2	< 2.0	< 2.0	< 2.0	< 2.0	< 2	< 2.0
Xylenes (total)	NA	< 5	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0

RECEIVED
AUG 1 3 2009
SITE ASSESSMENT, REMEDIATION & REVITALIZATION

Table 4
Summary of Organic Constituents in Groundwater / Surface Water Samples
Remedial Investigation Phase I Report
Voluntary Cleanup Contract 07-5217-RP

Constituent	MCL[1]	200 National Avenue				
		B-20(34)	B-21(30)	IB-1	SW-2	SW-3
		06-Oct-08	06-Oct-08	18-Nov-08	18-Nov-08	18-Nov-08
1,1,1-Trichloroethane	NA[2]	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2,2-Tetrachloroethane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,1-Dichloroethene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2,4-Trichlorobenzene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromo-3-chloropropane (DBCP)	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dibromoethane (EDB)	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichlorobenzene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloroethane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,2-Dichloropropane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,3-Dichlorobenzene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
1,4-Dichlorobenzene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Butanone (MEK)	NA	< 10	< 10	< 10	< 10	< 10
2-Hexanone	NA	< 10	< 10	< 10	< 10	< 10
4-Methyl-2-pentanone	NA	< 10	< 10	< 10	< 10	< 10
Acetone	NE[3]	< 20	< 20	< 20	< 20	< 20
Benzene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromodichloromethane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromoform	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Bromomethane (Methyl bromide)	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chlorobenzene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroethane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloroform	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Chloromethane (Methyl chloride)	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,2-Dichloroethene	70	**16**	< 5.0	< 5.0	< 5.0	< 5.0
cis-1,3-Dichloropropene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Cyclohexane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dibromochloromethane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Dichlorodifluoromethane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Ethylbenzene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropylbenzene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl acetate	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tertiary butyl ether (MTBE)	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylcyclohexane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Styrene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethene	5.0	**16**	**9.2**	< 5.0	< 5.0	< 5.0
Toluene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,2-Dichloroethene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
trans-1,3-Dichloropropene	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trichloroethene	5.0	**16**	< 5.0	**27**	< 5.0	< 5.0
Trichlorofluoromethane	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Xylenes (total)	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0

RECEIVED
AUG 1
SITE A
REM
REV.

Table 4
Summary of Organic Constituents in Groundwater / Surface Water Samples
Remedial Investigation Phase I Report
Voluntary Cleanup Contract 07-5217-RP

NOTES:

[1] Maximum Contaminant Level (MCL), regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, RSL Table Update, USEPA, September 2008.

[2] Contaminant not detected in groundwater samples; screening level Not Applicable (NA).

[3] MCL Not Established (NE).

- Concentrations reported in µg/L.
- Bold concentrations indicate contaminant detected in sample above Practical Quantitation Limit (PQL).
- Shaded concentrations indicate contaminant detected in sample above MCL.

RECEIVED
AUG 1
SITE
REM
REV

REC

AUG 1 0 2009

SITE ASSESSMENT, REMEDIATION & REVITALIZATION

Table 5
Summary of Inorganic Constituents in Groundwater / Surface Water Samples
Remedial Investigation Phase I Report
Voluntary Cleanup Contract 07-5217-RP

Constituent	MCL[1]	280 National Avenue		200 National Avenue								
		B-2(42)	B-4(39)	B-7(46)	B-7(46)A	B-9(30)	B-10(30)	B-11(43)	B-12(51)	B-13(30)	B-15(14)	B-16(14)
		8-Oct-08	8-Oct-08	2-Oct-08	2-Oct-08	2-Oct-08	1-Oct-08	2-Oct-08	2-Oct-08	2-Oct-08	3-Oct-08	3-Oct-08
Aluminum	NE[2]	**210**	**230**	**320**	**110**	**340**	**1,000**	**93**	**170**	**15**	**1,400**	**1,400**
Antimony	0.006	*< 0.050*	*< 0.050*	*< 0.02*	*< 0.01*	*< 0.01*	*< 0.05*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.050*	*< 0.050*
Arsenic	0.010	*< 0.050*	*< 0.010*	*< 0.02*	*< 0.01*	*< 0.01*	*< 0.05*	*< 0.01*	*< 0.01*	*< 0.01*	**0.030**	**0.027**
Barium	2	**16**	**4.2**	**20**	**2.6**	**19**	**26**	**4.2**	**3**	**0.45**	**36**	**15**
Beryllium	0.004	*< 0.020*	**0.013**	**0.031**	**0.0066**	**0.0094**	**0.061**	**0.01**	*< 0.008*	*< 0.004*	**0.040**	**0.045**
Cadmium	0.005	*< 0.010*	*< 0.010*	*< 0.004*	*< 0.002*	*< 0.002*	*< 0.01*	*< 0.002*	*< 0.002*	*< 0.002*	*< 0.010*	*< 0.010*
Calcium	NE	*< 25*	**44**	**65**	**7.1**	**7.5**	**40**	**9.5**	**6**	*< 5*	**20**	**40**
Chromium	0.1	**0.27**	**1.4**	**0.37**	**0.12**	**0.096**	**0.98**	**0.17**	**0.67**	**0.052**	**1.2**	**0.67**
Cobalt	NE	**0.21**	**0.25**	**0.39**	**0.059**	**0.17**	**3.4**	**0.1**	**0.18**	**0.032**	**1.2**	**0.29**
Copper	1.3	**0.31**	**0.37**	**0.51**	**0.13**	**0.26**	**0.77**	**0.071**	**0.31**	**0.035**	**0.96**	**0.83**
Iron	NE	**100**	**450**	**250**	**65**	**75**	**930**	**51**	**180**	**24**	**320**	**320**
Lead	0.015	**0.16**	**0.10**	**0.21**	**0.091**	**0.16**	**0.43**	**0.078**	**0.13**	**0.015**	**0.31**	**0.24**
Magnesium	NE	**32**	**140**	**77**	**16**	**17**	**210**	**8.3**	**24**	*< 5*	**57**	**78**
Manganese	NE	**12**	**10**	**16**	**2.3**	**7.1**	**86**	**4.4**	**5.7**	**1.2**	**25**	**20**
Mercury	0.002	*< 0.00010*	*< 0.00010*	*< 0.0001*	*< 0.0001*	*< 0.0001*	*< 0.0001*	*< 0.0001*	*< 0.0001*	*< 0.0001*	*< 0.00010*	*< 0.00010*
Nickel	NE	**0.22**	**0.49**	**0.24**	**0.088**	**0.2**	**0.65**	**0.078**	**0.27**	*< 0.04*	**0.32**	**0.28**
Potassium	NE	**49**	**110**	**74**	**16**	**23**	**190**	**9.1**	**25**	**6.1**	**81**	**98**
Selenium	NA[3]	*< 0.050*	*< 0.050*	*< 0.02*	*< 0.01*	*< 0.01*	*< 0.05*	*< 0.01*	*< 0.01*	*< 0.01*	*< 0.050*	*< 0.050*
Silver	NE	*< 0.020*	*< 0.020*	**0.015**	**0.016**	**0.017**	**0.045**	**0.013**	**0.036**	*< 0.005*	*< 0.020*	*< 0.020*
Sodium	NA	*< 25*	*< 25*	*< 10*	*< 5*	*< 5*	*< 25*	*< 5*	*< 5*	*< 5*	*< 25*	*< 25*
Thallium	0.002	*< 0.25*	*< 0.25*	*< 0.1*	*< 0.05*	*< 0.05*	*< 0.25*	*< 0.05*	*< 0.05*	*< 0.05*	*< 0.25*	*< 0.25*
Vanadium	NE	*< 0.25*	**1.0**	**0.76**	**0.2**	**0.17**	**1.9**	**0.16**	**0.33**	**0.058**	**0.79**	**0.81**
Zinc	NE	**0.54**	**1.7**	**0.69**	**0.19**	**0.86**	**2.8**	**0.17**	**0.84**	**0.077**	**0.82**	**0.95**

NOTES:

[1] Maximum Contaminant Level (MCL), Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, RSL Table Update, USEPA, September 2008.

[2] MCL Not Established (NE).

[3] Contaminant not detected in groundwater samples; MCL Not Applicable (NA).

- Concentrations reported in mg/L.
- Bold concentrations indicate contaminant detected in sample above Practical Quantitation Limt (PQL).
- Shaded concentrations indicate contaminant detected in sample above MCL.

RECEIVED
AUG 19 2009
SITE ASSESSMENT, REMEDIATION & REVITALIZATION

Table 5
Summary of Inorganic Constituents in Groundwater / Surface Water Samples
Remedial Investigation Phase I Report
Voluntary Cleanup Contract 07-5217-RP

Constituent	MCL[1]	200 National Avenue					
		B-19(16)	B-20(34)	B-21(30)	IB-1	SW-2	SW-3
		3-Oct-08	6-Oct-08	6-Oct-08	18-Nov-08	18-Nov-08	18-Nov-08
Aluminum	NE[2]	**790**	**160**	**1,600**	*< 0.20*	**0.24**	*< 0.20*
Antimony	0.006	*< 0.010*	*< 0.050*	*< 0.050*	*< 0.010*	*< 0.010*	*< 0.010*
Arsenic	0.010	**0.019**	*< 0.050*	*< 0.050*	*< 0.010*	*< 0.010*	*< 0.010*
Barium	2	**11**	**24**	**45**	*< 0.020*	**0.028**	**0.048**
Beryllium	0.004	**0.035**	*< 0.020*	**0.075**	*< 0.0040*	*< 0.0040*	*< 0.0040*
Cadmium	0.005	**0.0020**	*< 0.010*	*< 0.010*	*< 0.0020*	*< 0.0020*	*< 0.0020*
Calcium	NE	**13**	*< 25*	**58**	**11**	*< 5.0*	*< 5.0*
Chromium	0.1	**0.34**	**0.34**	**2.8**	*< 0.0050*	*< 0.0050*	*< 0.0050*
Cobalt	NE	**0.16**	**1.8**	**5.1**	*< 0.020*	*< 0.020*	*< 0.020*
Copper	1.3	**0.47**	**0.33**	**2.0**	**0.0080**	*< 0.0050*	*< 0.0050*
Iron	NE	**78**	**170**	**850**	**0.25**	**5.9**	**3.5**
Lead	0.015	**0.21**	**0.34**	**1.0**	*< 0.010*	*< 0.010*	*< 0.010*
Magnesium	NE	**20**	**30**	**150**	*< 5.0*	*< 5.0*	*< 5.0*
Manganese	NE	**15**	**33**	**82**	*< 0.015*	**0.062**	**0.070**
Mercury	0.002	*< 0.00010*	**0.00012**	**0.00038**	*< 0.00010*	*< 0.00010*	*< 0.00010*
Nickel	NE	**0.13**	*< 0.20*	**1.3**	*< 0.040*	*< 0.040*	*< 0.040*
Potassium	NE	**26**	**46**	**200**	**6.0**	*< 5.0*	*< 5.0*
Selenium	NA[3]	*< 0.010*	*< 0.050*	*< 0.050*	*< 0.010*	*< 0.010*	*< 0.010*
Silver	NE	*< 0.0050*	*< 0.020*	*< 0.020*	*< 0.0050*	*< 0.0050*	*< 0.0050*
Sodium	NA	*< 25*	*< 25*	*< 25*	*< 5.0*	*< 5.0*	*< 5.0*
Thallium	0.002	*< 0.050*	*< 0.25*	*< 0.25*	*< 0.050*	*< 0.050*	*< 0.050*
Vanadium	NE	**0.21**	**0.36**	**1.5**	*< 0.050*	*< 0.050*	*< 0.050*
Zinc	NE	**0.45**	**0.76**	**4.9**	**0.048**	*< 0.020*	**0.027**

NOTES:

[1] Maximum Contaminant Level (MCL), Regional Screening Levels (RSL) for Chemical Contaminants at Superfund Sites, RSL Table Update, USEPA, September 2008.

[2] MCL Not Established (NE).

[3] Contaminant not detected in groundwater samples; MCL Not Applicable (NA).

- Concentrations reported in mg/L.
- Bold concentrations indicate contaminant detected in sample above Practical Quantitation Limt (PQL).
- Shaded concentrations indicate contaminant detected in sample above MCL.

RECEIVED
AUG 19 2009
SITE ASSESSMENT, REMEDIATION & REVITALIZATION

Table 6
Summary of XRF Soil Screening Data
Remedial Investigation Phase I Report
Voluntary Cleanup Contract 07-5217-RP

		Constituent													
Boring Location	Sample Depth	As	Cd	Cr	Cu	Fe	Hg	Mn	Mo	Nb	Ni	Pb	Sn	Ti	Zn
B-09	0-2.5	<10	<50	<10	<10	52044	<10	<10	<10	NA	<10	38	<50	5578	43
B-09	2.5-5	<10	<50	<10	<10	55363	<10	<10	<10	NA	<10	30	<50	5136	<10
B-09	5-7.5	<10	<50	<10	<10	45556	<10	359	<10	NA	<10	27	<50	7279	78
B-09	7.5-10	<10	<50	<10	<10	44819	<10	<10	<10	NA	<10	<10	<50	5289	<10
B-09	10-12.5	<10	<50	<10	<10	48301	<10	<10	<10	NA	<10	26	<50	<10	45
B-09	12.5-15	<10	<50	<10	59	73429	<10	738	<10	NA	<10	<10	<50	7984	124
B-09	15-17.5	<10	<50	<10	47	64762	<10	541	<10	NA	110	<10	<50	6684	91
B-09	17.5-20	<10	<50	<10	<10	111300	<10	<10	<10	NA	<10	<10	<50	14508	49
B-09	20-22.5	<10	<50	<10	<10	26917	<10	<10	<10	NA	85	<10	<50	2800	43
B-09	22.5-25	<10	<50	<10	<10	70634	<10	1354	<10	NA	129	<10	<50	4748	89
B-09	25-27.5	<10	<50	<10	50	38660	<10	697	<10	NA	<10	<10	<50	4028	102
B-09	27.5-30	<10	<50	<10	<10	14508	<10	257	<10	NA	<10	<10	<50	<10	56
B-11	0-2.5	<10	<50	<10	<10	36692	<10	<10	<10	NA	106	33	<50	4650	45
B-11	2.5-5	<10	<50	<10	<10	90962	<10	890	<10	NA	210	60	<50	11191	110
B-11	5-7.5	<10	<50	<10	54	57832	<10	554	<10	NA	<10	28	<50	10607	86
B-11	7.5-10	<10	<50	<10	51	65389	<10	1206	<10	NA	144	<10	<50	10840	131
B-11	10-12.5	<10	<50	<10	<10	31831	<10	2027	<10	NA	<10	82	<50	3845	99
B-11	12.5-15	<10	<50	<10	<10	49431	<10	901	<10	NA	96	27	<50	9983	72
B-11	15-17.5	<10	<50	<10	<10	91934	<10	1174	<10	NA	146	<10	<50	17538	184
B-11	17.5-20	<10	<50	<10	56	53344	<10	585	<10	NA	155	<10	<50	7079	172
B-11	20-22.5	<10	<50	<10	61	43829	<10	1057	<10	NA	129	26	<50	7225	128
B-11	22.5-25	<10	<50	<10	49	55190	<10	1908	<10	NA	190	<10	<50	4228	86
B-11	25-27.5	<10	<50	<10	50	49424	<10	836	<10	NA	190	<10	<50	5407	79
B-11	27.5-30	<10	<50	<10	<10	48588	<10	594	<10	NA	123	<10	<50	6824	80
B-12	0-2.5	<10	<50	<10	55	62208	<10	495	<10	NA	<10	37	<50	7042	92
B-12	2.5-5	<10	<50	<10	<10	46743	<10	463	<10	NA	112	<10	<50	6677	67
B-12	5-7.5	<10	<50	<10	59	64161	<10	<10	<10	NA	<10	44	<50	8879	56
B-12	7.5-10	<10	<50	<10	<10	74924	<10	<10	<10	NA	149	52	<50	10241	130
B-12	10-12.5	<10	<50	<10	52	50622	<10	720	<10	NA	<10	42	<50	5664	98
B-12	12.5-15	<10	<50	<10	60	39429	<10	3305	<10	NA	110	49	<50	3523	138
B-12	15-17.5	<10	<50	<10	<10	18426	<10	1145	<10	NA	82	<10	<50	<10	72

NOTES:

- Sample depth measured in feet below ground surface.
- Concentrations reported in mg/L.

RECEIVED
AUG 1 0 2009
SITE ASSESSMENT, REMEDIATION & REVITALIZATION

Table 6
Summary of XRF Soil Screening Data
Remedial Investigation Phase I Report
Voluntary Cleanup Contract 07-5217-RP

		Constituent													
Boring Location	Sample Depth	As	Cd	Cr	Cu	Fe	Hg	Mn	Mo	Nb	Ni	Pb	Sn	Ti	Zn
B-12	17.5-20	<10	<50	<10	<10	33678	<10	453	<10	NA	108	<10	<50	4585	162
B-12	20-22.5	<10	<50	<10	<10	44888	<10	1924	<10	NA	129	40	<50	5429	150
B-12	22.5-25	<10	<50	<10	64	47629	<10	974	<10	NA	187	<10	<50	9132	136
B-12	25-27.5	<10	<50	<10	41	32582	<10	414	<10	NA	117	<10	<50	4140	64
B-12	27.5-30	<10	<50	<10	<10	58699	<10	957	<10	NA	178	<10	<50	9893	172
B-15	0-2.5	<10	<50	<10	<10	53756	<10	465	<10	NA	<10	<10	<50	3783	54
B-15	2.5-5	<10	<50	<10	<10	87190	<10	1648	<10	NA	<10	<10	<50	5545	62
B-15	5-7.5	<10	<50	<10	<10	63899	<10	2447	<10	NA	<10	<10	<50	3914	79
B-15	7.5-10	<10	<50	<10	<10	43545	<10	600	<10	NA	98	<10	<50	3644	79
B-15	10-12.5	<10	<50	<10	<10	37600	<10	922	<10	NA	<10	<10	<50	4102	95
B-16	0-2.5	<10	<50	<10	<10	23535	<10	<10	<10	NA	<10	<10	<50	3754	62
B-16	2.5-5	<10	<50	<10	<10	119943	<10	780	<10	NA	<10	32	<50	6496	79
B-16	5-7.5	<10	<50	<10	<10	64271	<10	535	<10	NA	<10	<10	<50	7655	81
B-16	7.5-10	<10	<50	<10	58	45275	<10	940	<10	NA	151	29	<50	5244	79
B-16	10-12.5	<10	<50	<10	<10	46119	<10	779	<10	NA	<10	<10	211	3816	78
B-16	12.5-15	<10	<50	<10	<10	73928	<10	1285	<10	NA	<10	<10	<50	6462	97
B-19	0-2.5	<10	<50	<10	74	18363	<10	<10	<10	NA	<10	53	<50	4117	125
B-19	2.5-5	<10	<50	<10	<10	54732	<10	405	<10	NA	104	31	<50	4522	121
B-19	5-7.5	<10	<50	<10	<10	80226	<10	<10	<10	NA	152	<10	<50	3613	94
B-19	7.5-10	<10	<50	<10	<10	44286	<10	909	<10	NA	<10	<10	<50	<10	75
B-19	10-12.5	<10	<50	<10	<10	52275	<10	825	<10	NA	<10	<10	<50	4439	114
B-19	12.5-15	<10	<50	<10	<10	65456	<10	727	<10	NA	<10	48	<50	6916	111

NOTES:

- Sample depth measured in feet below ground surface.
- Concentrations reported in mg/L.