UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
901 NORTH 5TH STREET
KANSAS CITY, KANSAS 66101

MAR 30 2011

Rod Kostman
Tenneco
121 Meridian
Cozad, Nebraska 69130
308-784-3600

Re: Cozad Groundwater Vapor Intrusion Assessment
CERCLIS ID. No. NEN000705851

Dear Mr. Kostman:

On January 8, 2011, representatives of the United States Environmental Protection Agency (EPA) collected three air samples (Sample Numbers 5193-1 through 5193-3) from inside buildings on your property for investigative reference purposes for the subject site. Enclosed are copies of the field collection sheets and analytical results. No constituents analyzed for in the air samples exceeded an EPA regional screening standard.

On January 9, 2011, representatives of the EPA collected three sub slab air samples (Sample Numbers 5193-110 through 5193-112) from a building on your property for investigative reference purposes for the subject site. Enclosed are copies of the field collection sheets and analytical results.

On January 7, 2011, representatives of the EPA collected three soil gas samples (Sample Numbers 5193-101 through 5193-103) from your property for investigative reference purposes for the subject site. Enclosed are copies of the field collection sheets and analytical results.

This information is being provided to you in accordance with section 104(e)(4)(B) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended.

Please contact me if you have any questions regarding this matter. I can be reached directly at (913) 551-7633. You may also reach me by dialing (800) 223-0425 and asking the receptionist to transfer you to me, at extension 7633.

Thanks for your cooperation in this matter.

Sincerely,

Brian Mitchell

Brian Mitchell
Nebraska Site Assessment Manager

40345964
Superfund

RECYCLED 100% FIBER

Enclosures

cc: Mike Felix – *with enclosures*
Section Supervisor
Remediation Section
Waste Management Division
Nebraska Department of Environmental Quality
Suite 400, The Atrium, 1200 N Street
P.O. Box 98922
Lincoln, Nebraska 68509-8922

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5193 **Sample Number:** 1 **QC Code:** __ **Matrix:** Air **Tag ID:** 5193-1-__

Project ID: BMCNEGW **Project Manager:** Brian Mitchell
Project Desc: Cozad GW - Vapor Intrusion Assessment sampling
City: Cozad **State:** Nebraska
Program: Superfund
Site Name: Multi-Site - General **Site ID:** 07ZZ **Site OU:** 00

Location Desc: Ambient air sample

External Sample Number: ~~CSS-1~~ CIA-1

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: 40.853316	**Sample Collection: Start:**	1/8/11	10:35
Longitude: -99.989146	**End:**	1/9/11	~~12:46~~ 0809

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

ROD ROSTMAN
TENVECO
121 MERIDIAN
COZAD, NE

FORMER TCE TANK LOCATION

START 28" Hg
END ~~4~~ 1" Hg
3" Hg

Sample Collected By: LM/TT-START

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5193 **Sample Number:** 2 **QC Code:** __ **Matrix:** Air **Tag ID:** 5193-2-__

Project ID: BMCNEGW **Project Manager:** Brian Mitchell
Project Desc: Cozad GW - Vapor Intrusion Assessment sampling
City: Cozad **State:** Nebraska
Program: Superfund
Site Name: Multi-Site - General **Site ID:** 07ZZ **Site OU:** 00

Location Desc: Ambient air sample

External Sample Number: CIA-2

Expected Conc: (or Circle One: Low Medium High)

		Date	Time(24 hr)
Latitude: 40.853397	**Sample Collection: Start:**	1/8/11	10:45
Longitude: -99.989382	**End:**	1/9/11	09:42

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

ROD KOSTMAN
TENNECO
121 MERIDIAN
COZAD, NE

~~NEAR TEE TRANSFER PIPES~~
ASSEMBLY BUSINESS MNG OFFICE

START 30" Hg
END 7" Hg

Sample Collected By: LM/TT-START

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5193 **Sample Number:** 3 **QC Code:** __ **Matrix:** Air **Tag ID:** 5193-3-__

Project ID: BMCNEGW **Project Manager:** Brian Mitchell
Project Desc: Cozad GW - Vapor Intrusion Assessment sampling
City: Cozad **State:** Nebraska
Program: Superfund
Site Name: Multi-Site - General **Site ID:** 07ZZ **Site OU:** 00

Location Desc: Ambient air sample

External Sample Number: CIA-3

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude:	40.853892	**Sample Collection: Start:**	1/8/11	10:39
Longitude:	-99.987450	**End:**	1/9/11	10:38

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 6 Liter Canister	None	60 Days	1 VOCs in Air at Ambient Levels by GC/MS

Sample Comments:
(N/A)

ROD KOSMAN
TENNECO
121 MERIDIAN AVE
COZAD, NE

NEAR FORMER DEGREASER AREA

START 31" Hg
END 11" Hg

Sample Collected By: LM/TT-START

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5193 **Sample Number:** 101 **QC Code:** __ **Matrix:** Air **Tag ID:** 5193-101-__

Project ID: BMCNEGW **Project Manager:** Brian Mitchell
Project Desc: Cozad GW - Vapor Intrusion Assessment sampling
City: Cozad **State:** Nebraska
Program: Superfund
Site Name: Multi-Site - General **Site ID:** 07ZZ **Site OU:** 00

Location Desc: Source level air sample

External Sample Number: CS6-1

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude:	40.85270	**Sample Collection: Start:**	08/07/11	08:40
Longitude:	99.98705	**End:**	11/7/11	08:43

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 400mL Canister	None	60 Days	1 VOCs in Air at Source Levels by GC/MS

Sample Comments:

(N/A)

TENNECO
121 MERIDIAN AVE
COZAD, NE

START 27" Hg
END 10" Hg

Sample Collected By: LM/TT-START

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5193 **Sample Number:** 102 **QC Code:** __ **Matrix:** Air **Tag ID:** 5193-102-__

Project ID: BMCNEGW **Project Manager:** Brian Mitchell
Project Desc: Cozad GW - Vapor Intrusion Assessment sampling
City: Cozad **State:** Nebraska
Program: Superfund
Site Name: Multi-Site - General **Site ID:** 07ZZ **Site OU:** 00

Location Desc: Source level air sample

External Sample Number: CS6-2

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude: 40.85405	**Sample Collection:**	**Start:**	1/7/11	09:40
Longitude: 99.98732		**End:**	1/7/11	09:43

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 400mL Canister	None	60 Days	1 VOCs in Air at Source Levels by GC/MS

Sample Comments:

(N/A) TENNECO
121 MERIDIAN AVE
COZAD, MO

START 27" Hg
END 10" Hg

Sample Collected By: LM/TT-START

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5193 **Sample Number:** 103 **QC Code:** __ **Matrix:** Air **Tag ID:** 5193-103-__

Project ID: BMCNEGW **Project Manager:** Brian Mitchell
Project Desc: Cozad GW - Vapor Intrusion Assessment sampling
City: Cozad **State:** Nebraska
Program: Superfund
Site Name: Multi-Site - General **Site ID:** 07ZZ **Site OU:** 00

Location Desc: Source level air sample

External Sample Number: CS6-3

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 40.85371 **Sample Collection: Start:** 1/7/11 10:00
Longitude: 99.98975 **End:** 1/7/11 10:03

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 400mL Canister	None	60 Days	1 VOCs in Air at Source Levels by GC/MS

Sample Comments:

(N/A)

TENNECO
121 MERIDIAN AVE
COZAD, NE

P START 27 "Hg
END 8 "Hg

Sample Collected By: LM/TT-START

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5193 **Sample Number:** 110 **QC Code:** __ **Matrix:** Air **Tag ID:** 5193-110-__

Project ID: BMCNEGW **Project Manager:** Brian Mitchell
Project Desc: Cozad GW - Vapor Intrusion Assessment sampling
City: Cozad **State:** Nebraska
Program: Superfund
Site Name: Multi-Site - General **Site ID:** 07ZZ **Site OU:** 00

Location Desc: Source level air sample

External Sample Number: CSS-1

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**

Latitude: 40.853316 **Sample Collection: Start:** 1/8/11 10:01
Longitude: -99.999146 **End:** 1/9/11 08:09

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 400mL Canister	None	60 Days	1 VOCs in Air at Source Levels by GC/MS

Sample Comments:
(N/A)
ROD ROSTMAN
TENNECO
121 MERIDIAN
COZAD, NE
FORMER TCE TANK AREA
START 28" Hg
END 3" Hg

Sample Collected By: LM/TT-START

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5193 **Sample Number:** 111 **QC Code:** __ **Matrix:** Air **Tag ID:** 5193-111-__

Project ID: BMCNEGW **Project Manager:** Brian Mitchell
Project Desc: Cozad GW - Vapor Intrusion Assessment sampling
City: Cozad **State:** Nebraska
Program: Superfund
Site Name: Multi-Site - General **Site ID:** 07ZZ **Site OU:** 00

Location Desc: Source level air sample

External Sample Number: CSS-2

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude:	40.853397	**Sample Collection: Start:**	1/8/11	10:12
Longitude:	-99.989386	**End:**	1/9/11	08:10

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 400mL Canister	None	60 Days	1 VOCs in Air at Source Levels by GC/MS

Sample Comments:
(N/A) ROD KOSTMAN
TENVECO
121 MERIDIAN
COZAD NE
FORMER TCE TRANSFER PIPE LOCATION
START 28" Hg
END 5" Hg

Sample Collected By: LM/TT-START

Sample Collection Field Sheet
US EPA Region 7
Kansas City, KS

ASR Number: 5193 **Sample Number:** 112 **QC Code:** __ **Matrix:** Air **Tag ID:** 5193-112-__

Project ID: BMCNEGW **Project Manager:** Brian Mitchell
Project Desc: Cozad GW - Vapor Intrusion Assessment sampling
City: Cozad **State:** Nebraska
Program: Superfund
Site Name: Multi-Site - General **Site ID:** 07ZZ **Site OU:** 00

Location Desc: Source level air sample

External Sample Number: CSS-3

Expected Conc: (or Circle One: Low Medium High)

			Date	Time(24 hr)
Latitude: 40.852559	**Sample Collection:**	**Start:**	1/8/11	10:20
Longitude: -99.989307		**End:**	1/9/11	08:14

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
1 - 400mL Canister	None	60 Days	1 VOCs in Air at Source Levels by GC/MS

Sample Comments:
(N/A)

ROD ROSSMAN
TENVECO
121 MERIDIAN
COZAD, NE
FORMER DEGREASER AREA

START 25" Hg
END 7" Hg

Sample Collected By: LM/TT-START

United States Environmental Protection Agency
Region 7
901 N. 5th Street
Kansas City, Kansas 66101

02/04/2011

Results of Sample Analysis

Sample: 5193-1
Project ID: BMCNEGW

These are the results from the analysis of air sample number 5193-1. This sample was collected on 01/08/2011 at the location described as: CIA-1. If you have any questions about these results, contact Brian Mitchell at the above address or by calling 913-551-7633. Correspondence should refer to sample number 5193-1 for project: BMCNEGW - Cozad GW - Vapor Intrusion Assessment sampling.

Analysis/Analyte	Amount Found	Units
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
Benzene	Less Than 1.6	Micrograms per Cubic Meter
Carbon Tetrachloride	Less Than 3.1	Micrograms per Cubic Meter
Chloroethane	Less Than 1.3	Micrograms per Cubic Meter
Chloromethane	Less Than 1	Micrograms per Cubic Meter
1,1-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,2-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
cis-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
trans-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
Ethyl Benzene	Less Than 2.2	Micrograms per Cubic Meter
1,1,2,2-Tetrachloroethane	Less Than 3.4	Micrograms per Cubic Meter
Tetrachloroethene	Less Than 3.4	Micrograms per Cubic Meter
Toluene	Less Than 1.9	Micrograms per Cubic Meter
1,1,1-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
1,1,2-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
Trichloroethene	Less Than 2.7	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 1.3	Micrograms per Cubic Meter
m and/or p-Xylene	Less Than 4.3	Micrograms per Cubic Meter
o-Xylene	Less Than 2.2	Micrograms per Cubic Meter

United States Environmental Protection Agency
Region 7
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02/04/2011

Results of Sample Analysis

Sample: 5193-2
Project ID: BMCNEGW

These are the results from the analysis of air sample number 5193-2. This sample was collected on 01/08/2011 at the location described as: CIA-2. If you have any questions about these results, contact Brian Mitchell at the above address or by calling 913-551-7633. Correspondence should refer to sample number 5193-2 for project: BMCNEGW - Cozad GW - Vapor Intrusion Assessment sampling.

Analysis/Analyte	Amount Found	Units
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
Benzene	Less Than 1.6	Micrograms per Cubic Meter
Carbon Tetrachloride	Less Than 3.1	Micrograms per Cubic Meter
Chloroethane	Less Than 1.3	Micrograms per Cubic Meter
Chloromethane	Less Than 1	Micrograms per Cubic Meter
1,1-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,2-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
cis-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
trans-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
Ethyl Benzene	Less Than 2.2	Micrograms per Cubic Meter
1,1,2,2-Tetrachloroethane	Less Than 3.4	Micrograms per Cubic Meter
Tetrachloroethene	Less Than 3.4	Micrograms per Cubic Meter
Toluene	Less Than 1.9	Micrograms per Cubic Meter
1,1,1-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
1,1,2-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
Trichloroethene	Less Than 2.7	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 1.3	Micrograms per Cubic Meter
m and/or p-Xylene	Less Than 4.3	Micrograms per Cubic Meter
o-Xylene	Less Than 2.2	Micrograms per Cubic Meter

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Results of Sample Analysis

Sample: 5193-3
Project ID: BMCNEGW

These are the results from the analysis of air sample number 5193-3. This sample was collected on 01/08/2011 at the location described as: CIA-3. If you have any questions about these results, contact Brian Mitchell at the above address or by calling 913-551-7633. Correspondence should refer to sample number 5193-3 for project: BMCNEGW - Cozad GW - Vapor Intrusion Assessment sampling.

Analysis/Analyte	Amount Found	Units
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
Benzene	Less Than 1.6	Micrograms per Cubic Meter
Carbon Tetrachloride	Less Than 3.1	Micrograms per Cubic Meter
Chloroethane	Less Than 1.3	Micrograms per Cubic Meter
Chloromethane	Less Than 1	Micrograms per Cubic Meter
1,1-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,2-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
cis-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
trans-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
Ethyl Benzene	Less Than 2.2	Micrograms per Cubic Meter
1,1,2,2-Tetrachloroethane	Less Than 3.4	Micrograms per Cubic Meter
Tetrachloroethene	Less Than 3.4	Micrograms per Cubic Meter
Toluene	4.5	Micrograms per Cubic Meter
1,1,1-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
1,1,2-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
Trichloroethene	Less Than 2.7	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 1.3	Micrograms per Cubic Meter
m and/or p-Xylene	Less Than 4.3	Micrograms per Cubic Meter
o-Xylene	Less Than 2.2	Micrograms per Cubic Meter

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02/04/2011

Results of Sample Analysis

Sample: 5193-101
Project ID: BMCNEGW

These are the results from the analysis of air sample number 5193-101. This sample was collected on 01/07/2011 at the location described as: CSG-1. If you have any questions about these results, contact Brian Mitchell at the above address or by calling 913-551-7633. Correspondence should refer to sample number 5193-101 for project: BMCNEGW - Cozad GW - Vapor Intrusion Assessment sampling.

Analysis/Analyte	Amount Found	Units
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
Benzene	Less Than 1.6	Micrograms per Cubic Meter
Carbon Tetrachloride	Less Than 3.1	Micrograms per Cubic Meter
Chloroethane	Less Than 1.3	Micrograms per Cubic Meter
Chloromethane	Less Than 1	Micrograms per Cubic Meter
1,1-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,2-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
cis-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
trans-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
Ethyl Benzene	Less Than 2.2	Micrograms per Cubic Meter
1,1,2,2-Tetrachloroethane	Less Than 3.4	Micrograms per Cubic Meter
Tetrachloroethene	Less Than 3.4	Micrograms per Cubic Meter
Toluene	2.2	Micrograms per Cubic Meter
1,1,1-Trichloroethane	3.9	Micrograms per Cubic Meter
1,1,2-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
Trichloroethene	6.9	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 1.3	Micrograms per Cubic Meter
m and/or p-Xylene	Less Than 4.3	Micrograms per Cubic Meter
o-Xylene	Less Than 2.2	Micrograms per Cubic Meter

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02/04/2011

Results of Sample Analysis

Sample: 5193-102
Project ID: BMCNEGW

These are the results from the analysis of air sample number 5193-102. This sample was collected on 01/07/2011 at the location described as: CSG-2. If you have any questions about these results, contact Brian Mitchell at the above address or by calling 913-551-7633. Correspondence should refer to sample number 5193-102 for project: BMCNEGW - Cozad GW - Vapor Intrusion Assessment sampling.

Analysis/Analyte	Amount Found	Units
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
Benzene	Less Than 1.6	Micrograms per Cubic Meter
Carbon Tetrachloride	Less Than 3.1	Micrograms per Cubic Meter
Chloroethane	Less Than 1.3	Micrograms per Cubic Meter
Chloromethane	Less Than 1	Micrograms per Cubic Meter
1,1-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,2-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
cis-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
trans-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
Ethyl Benzene	Less Than 2.2	Micrograms per Cubic Meter
1,1,2,2-Tetrachloroethane	Less Than 3.4	Micrograms per Cubic Meter
Tetrachloroethene	16.3	Micrograms per Cubic Meter
Toluene	2.2	Micrograms per Cubic Meter
1,1,1-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
1,1,2-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
Trichloroethene	23.5	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 1.3	Micrograms per Cubic Meter
m and/or p-Xylene	Less Than 4.3	Micrograms per Cubic Meter
o-Xylene	Less Than 2.2	Micrograms per Cubic Meter

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02/04/2011

Results of Sample Analysis

Sample: 5193-103
Project ID: BMCNEGW

These are the results from the analysis of air sample number 5193-103. This sample was collected on 01/07/2011 at the location described as: CGS-3. If you have any questions about these results, contact Brian Mitchell at the above address or by calling 913-551-7633. Correspondence should refer to sample number 5193-103 for project: BMCNEGW - Cozad GW - Vapor Intrusion Assessment sampling.

Analysis/Analyte	Amount Found	Units
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
Benzene	2.4	Micrograms per Cubic Meter
Carbon Tetrachloride	Less Than 3.1	Micrograms per Cubic Meter
Chloroethane	Less Than 1.3	Micrograms per Cubic Meter
Chloromethane	Less Than 1	Micrograms per Cubic Meter
1,1-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,2-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
cis-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
trans-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
Ethyl Benzene	Less Than 2.2	Micrograms per Cubic Meter
1,1,2,2-Tetrachloroethane	Less Than 3.4	Micrograms per Cubic Meter
Tetrachloroethene	Less Than 3.4	Micrograms per Cubic Meter
Toluene	4.9	Micrograms per Cubic Meter
1,1,1-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
1,1,2-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
Trichloroethene	11.6	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 1.3	Micrograms per Cubic Meter
m and/or p-Xylene	Less Than 4.3	Micrograms per Cubic Meter
o-Xylene	Less Than 2.2	Micrograms per Cubic Meter

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Kansas City, Kansas 66101

02/04/2011

Results of Sample Analysis

Sample: 5193-110
Project ID: BMCNEGW

These are the results from the analysis of air sample number 5193-110. This sample was collected on 01/08/2011 at the location described as: CSS-1. If you have any questions about these results, contact Brian Mitchell at the above address or by calling 913-551-7633. Correspondence should refer to sample number 5193-110 for project: BMCNEGW - Cozad GW - Vapor Intrusion Assessment sampling.

Analysis/Analyte	Amount Found	Units
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
Benzene	7.9	Micrograms per Cubic Meter
Carbon Tetrachloride	Less Than 3.1	Micrograms per Cubic Meter
Chloroethane	3.4	Micrograms per Cubic Meter
Chloromethane	Less Than 1	Micrograms per Cubic Meter
1,1-Dichloroethane	681	Micrograms per Cubic Meter
1,2-Dichloroethane	187	Micrograms per Cubic Meter
1,1-Dichloroethene	7.6	Micrograms per Cubic Meter
cis-1,2-Dichloroethene	1270	Micrograms per Cubic Meter
trans-1,2-Dichloroethene	29.4	Micrograms per Cubic Meter
Ethyl Benzene	12.9	Micrograms per Cubic Meter
1,1,2,2-Tetrachloroethane	Less Than 3.4	Micrograms per Cubic Meter
Tetrachloroethene	61.6	Micrograms per Cubic Meter
Toluene	37	Micrograms per Cubic Meter
1,1,1-Trichloroethane	1270	Micrograms per Cubic Meter
1,1,2-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
Trichloroethene	2480	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 1.3	Micrograms per Cubic Meter
m and/or p-Xylene	47.5	Micrograms per Cubic Meter
o-Xylene	17.1	Micrograms per Cubic Meter

United States Environmental Protection Agency
Region 7
901 N. 5th Street
Kansas City, Kansas 66101

02/04/2011

Results of Sample Analysis

Sample: 5193-111
Project ID: BMCNEGW

These are the results from the analysis of air sample number 5193-111. This sample was collected on 01/08/2011 at the location described as: CSS-2. If you have any questions about these results, contact Brian Mitchell at the above address or by calling 913-551-7633. Correspondence should refer to sample number 5193-111 for project: BMCNEGW - Cozad GW - Vapor Intrusion Assessment sampling.

Analysis/Analyte	Amount Found	Units
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
Benzene	3.7	Micrograms per Cubic Meter
Carbon Tetrachloride	Less Than 3.1	Micrograms per Cubic Meter
Chloroethane	Less Than 1.3	Micrograms per Cubic Meter
Chloromethane	Less Than 1	Micrograms per Cubic Meter
1,1-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,2-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
cis-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
trans-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
Ethyl Benzene	23.2	Micrograms per Cubic Meter
1,1,2,2-Tetrachloroethane	Less Than 3.4	Micrograms per Cubic Meter
Tetrachloroethene	4.4	Micrograms per Cubic Meter
Toluene	48.4	Micrograms per Cubic Meter
1,1,1-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
1,1,2-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
Trichloroethene	16.3	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 1.3	Micrograms per Cubic Meter
m and/or p-Xylene	62.6	Micrograms per Cubic Meter
o-Xylene	19	Micrograms per Cubic Meter

United States Environmental Protection Agency
Region 7
901 N. 5th Street
Kansas City, Kansas 66101

02/04/2011

Results of Sample Analysis

Sample: 5193-112
Project ID: BMCNEGW

These are the results from the analysis of air sample number 5193-112. This sample was collected on 01/08/2011 at the location described as: CSS-3. If you have any questions about these results, contact Brian Mitchell at the above address or by calling 913-551-7633. Correspondence should refer to sample number 5193-112 for project: BMCNEGW - Cozad GW - Vapor Intrusion Assessment sampling.

Analysis/Analyte	Amount Found	Units
Volatile Organic Compounds (VOCs) in Air at Ambient Levels by Gas Chromatography and Mass Selective Detection (GC/MS)		
Benzene	4.1	Micrograms per Cubic Meter
Carbon Tetrachloride	Less Than 3.1	Micrograms per Cubic Meter
Chloroethane	Less Than 1.3	Micrograms per Cubic Meter
Chloromethane	Less Than 1	Micrograms per Cubic Meter
1,1-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,2-Dichloroethane	Less Than 2	Micrograms per Cubic Meter
1,1-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
cis-1,2-Dichloroethene	2.4	Micrograms per Cubic Meter
trans-1,2-Dichloroethene	Less Than 2	Micrograms per Cubic Meter
Ethyl Benzene	182	Micrograms per Cubic Meter
1,1,2,2-Tetrachloroethane	Less Than 3.4	Micrograms per Cubic Meter
Tetrachloroethene	Less Than 3.4	Micrograms per Cubic Meter
Toluene	33.4	Micrograms per Cubic Meter
1,1,1-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
1,1,2-Trichloroethane	Less Than 2.7	Micrograms per Cubic Meter
Trichloroethene	217	Micrograms per Cubic Meter
Vinyl Chloride	Less Than 1.3	Micrograms per Cubic Meter
m and/or p-Xylene	314	Micrograms per Cubic Meter
o-Xylene	88.5	Micrograms per Cubic Meter