

US EPA ARCHIVE DOCUMENT

EPA FIELD SHEETS

Part 4 of 4

This document relates to Doc ID

30284377, 30216104, 30216105

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

ACTIVITY LEADER(Print) <i>Zurbuchen, Brian</i>	NAME OF SURVEY OR ACTIVITY <i>Garvey Elevator Quarterly</i>	DATE OF COLLECTION <i>27-28 9 2011</i> DAY MONTH YEAR	SHEET <i>1</i> of <i>1</i>
---	--	---	-------------------------------

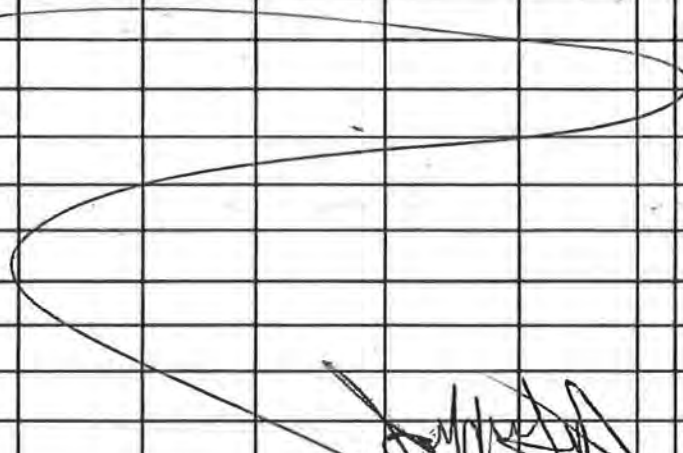
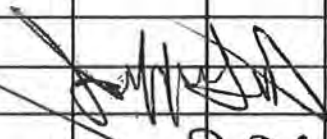
CONTENTS OF SHIPMENT *BZA72701*

SAMPLE NUMBER	TYPE OF CONTAINERS				VOA SET (# VIALS EA)	SAMPLED MEDIA					RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE		water	soil	sediment	dust	other	
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5511-1					3	X					Extra Vol MS/MSD
5511-2					1	X					
5511-3					1	X					
5511-4					1	X					
5511-5					1	X					
5511-5 FD					1	X					
5511-6 7					1	X					
5511-6/FB					1	X					Trip Blank
5511-8					1	X					
5511-9					1	X					
5511-10					1	X					
5511-11					1	X					
5511-12					1	X					
5511-13					1	X					ASR 5511
5511-14					1	X					
9/28/11											

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
_____ PIECE(S) CONSISTING OF _____ BOX(ES) ☒ ICE CHEST(S); OTHER _____	☒ COMMERCIAL CARRIER: <i>FedEx</i> _____ COURIER _____ SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER) _____

PERSONNEL CUSTODY RECORD			
RELINQUISHED BY (SAMPLER) 	DATE <i>9-28-11</i>	TIME <i>1700</i>	RECEIVED BY
☒ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED
RELINQUISHED BY	DATE	TIME	RECEIVED BY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED
RELINQUISHED BY	DATE	TIME	RECEIVED BY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED

ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print) Zurbuchen, Brian		NAME OF SURVEY OR ACTIVITY Garvey Flovator BZA72301		DATE OF COLLECTION 25-09-11 DAY MONTH YEAR			SHEET 1 of 1				
CONTENTS OF SHIPMENT											
SAMPLE NUMBER	TYPE OF CONTAINERS				SAMPLED MEDIA					RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)	
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (# VIALS EA)	water	soil	sediment	dust		other
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5511-15					1	X					
5511-16					1	X					
5511-17					1	X					
5511-18					1	X					
5511-19					1	X					
5511-20					1	X					
5511-21					1	X					
											
											
ASR <u>Not</u> Complete											
9-29-11											

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
_____ PIECE(S) CONSISTING OF _____ BOX(ES) ☒ ICE CHEST(S); OTHER _____	☒ COMMERCIAL CARRIER: <u>FedEx</u> _____ COURIER _____ SAMPLER CONVEYED _____ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD				
RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☒ SEALED ☐ UNSEALED	9-29-11	1700	☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

ACTIVITY LEADER(Print) <i>Zachariah, Brian</i>	NAME OF SURVEY OR ACTIVITY <i>Gamestator BZA 72201</i>	DATE OF COLLECTION <i>2-2-09</i> DAY MONTH YEAR	SHEET <i>1</i> of <i>2</i>
---	---	---	-------------------------------

CONTENTS OF SHIPMENT *Groundwater samples*

SAMPLE NUMBER	TYPE OF CONTAINERS				VOA SET (VIALS EA)	SAMPLED MEDIA					RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE		water	soil	sediment	dust	other	
5511-22					1	X					
5511-22FD					1	X					
5511-2											
5511-25					1	X					
5511-26					1	X					
5511-24					1	X					
5511-27					1	X					
5511-62FB					1	X					Trip Blank
5511-28					3	X					Extra Vol MS/MSD
5511-29					1	X					
5511-30					1	X					
5511-31					1	X					
5511-63FB					1	X					Trip Blank
5511-32					1	X					
5511-33					1	X					
5511-34					1	X					
5511-35					1	X					
5511-36					1	X					
5511-37					1	X					
5511-38					1	X					
5511-38FD					1	X					
5511-3940					1	X					
5511-39FD					1	X					
40											

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
_____ PIECE(S) CONSISTING OF _____ BOX(ES) ☒ ICE CHEST(S); OTHER _____	_____ COMMERCIAL CARRIER _____ _____ COURIER _____ ☒ SAMPLER CONVEYED _____ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD			
RELINQUISHED BY (SAMPLER) <i>[Signature]</i>	DATE <i>10-3-11</i>	TIME <i>1420</i>	RECEIVED BY <i>Rowe Wiggan</i>
☐ SEALED ☒ UNSEALED			☐ SEALED ☒ UNSEALED
REASON FOR CHANGE OF CUSTODY <i>Rec'd at lab</i>			
RELINQUISHED BY	DATE	TIME	RECEIVED BY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED
REASON FOR CHANGE OF CUSTODY			
RELINQUISHED BY	DATE	TIME	RECEIVED BY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED
REASON FOR CHANGE OF CUSTODY			

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print) <i>Brian Zurbuchen</i>	NAME OF SURVEY OR ACTIVITY <i>Garvey Elevator RI/FS</i>	DATE OF COLLECTION <i>9-2 9/10 2011</i>			SHEET <i>2 of 2</i>	
--	--	--	--	--	------------------------	--

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS				VOA SET (2 VIALS EA)	SAMPLED MEDIA				RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)	
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE		water	soil	sediment	dust		other
5511-55					1	X					
5511-56					1	X					
5511-57					1	X					
5511-57 FD					1	X					Field Duplicate
5511-59					1	X					
5511-60					1	X					
5511-42					1	X					
5511-45					1	X					
ASR Not Complete 10-2-11											

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
_____ PIECE(S) CONSISTING OF _____ BOX(ES) ☒ ICE CHEST(S): OTHER _____	_____ COMMERCIAL CARRIER _____ _____ COURIER _____ ☒ SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER) _____

PERSONNEL CUSTODY RECORD			
RELINQUISHED BY (SAMPLER) <i>[Signature]</i>	DATE <i>10-3-11</i>	TIME <i>1420</i>	RECEIVED BY <i>RDW Wiggan</i>
☐ SEALED ☒ UNSEALED			☐ SEALED ☒ UNSEALED
REASON FOR CHANGE OF CUSTODY <i>Rec'd at Lab</i>			
RELINQUISHED BY	DATE	TIME	RECEIVED BY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED
REASON FOR CHANGE OF CUSTODY			
RELINQUISHED BY	DATE	TIME	RECEIVED BY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED
REASON FOR CHANGE OF CUSTODY			

US EPA ARCHIVE DOCUMENT

7-EPA-9262(Revised 5/85)

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 1 QC Code: ___ Matrix: Water Tag ID: 5511-1-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-31C

External Sample Number: MW-31C

Expected Conc: (or Circle One: Low Medium High) Date 9/27/11 Time(24 hr) 12:55
Latitude: _____ Sample Collection: Start: 9/27/11 End: 12:55
Longitude: _____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.386</u>	umhos/cm
Dissolved Oxygen :	<u>6.68</u>	mg/L
Temperature :	<u>14.37</u>	Deg C
Turbidity :	<u>0.31</u>	NTU
pH :	<u>6.77</u>	SU

ORP: 25.3 mV

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Extra Vol ms/msD

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 2 QC Code: Matrix: Water Tag ID: 5511-2-

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-31A
External Sample Number: Mw-31A
Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: Sample Collection: Start: 9/27/11 13:55
Longitude: End: 1/1/

Field Measurement

Parameter	Value	Units
Conductance, Specific:	0.876	umhos/cm
Dissolved Oxygen:	0.70	mg/L
Temperature:	15.09	Deg C
Turbidity:	0.93	NTU
pH:	6.75	SU

ORP: -129 mV

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 3 QC Code: ____ Matrix: Water Tag ID: 5511-3-__

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-30E
External Sample Number: MW-30E
Expected Conc: (or Circle One: Low Medium High) Date: 9/27/11 Time(24 hr): 14:50
Latitude: _____ Sample Collection: Start: _____
Longitude: _____ End: _____

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.659</u>	umhos/cm
Dissolved Oxygen:	<u>13.32</u>	mg/L
Temperature:	<u>13.83</u>	Deg C
Turbidity:	<u>0.31</u>	NTU
pH:	<u>7.4</u>	SU

ORP: -51.0 mV

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 4 QC Code: ____ Matrix: Water Tag ID: 5511-4-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-30 D

External Sample Number: MW-30 D

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

Latitude: _____ **Sample Collection: Start:** 9/27/11 16:00
Longitude: _____ **End:** 1/1/ :

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.701</u>	umhos/cm
Dissolved Oxygen:	<u>3.88</u>	mg/L
Temperature:	<u>13.52</u>	Deg C
Turbidity:	<u>13.0</u>	NTU
pH:	<u>6.50</u>	SU

ORP: -188.9 mV

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

WM 9/27/11

ASR Number: 5511 Sample Number: 5 QC Code: ED Matrix: Water Tag ID: 5511-8 ^{5FD}

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc:

Duplicate of 5511-5

External Sample Number:

Duplicate of 5511-5

Expected Conc:

(or Circle One: Low Medium High)

Date

Time(24 hr)

Latitude: _____

Sample Collection: Start:

9/27/1117:00

Longitude: _____

End:

1/1/:

Field Measurement

Parameter

Value

Units

Conductance, Specific: 0.663 umhos/cm
Dissolved Oxygen: 12.93 mg/L
Temperature: 13.97 Deg C
Turbidity: 0.45 NTU
pH: 7.56 SU

ORP: -20.9 mV

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 5 QC Code: Matrix: Water Tag ID: 5511-5-__

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-30C

External Sample Number: MW-30C

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

Latitude: _____

Sample Collection: Start: 9/27/11 17:00

Longitude: _____

End: 1/1/ ::

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.663</u>	umhos/cm
Dissolved Oxygen:	<u>12.93</u>	mg/L
Temperature:	<u>13.97</u>	Deg C
Turbidity:	<u>0.45</u>	NTU
pH:	<u>7.56</u>	SU

ORP: -20.9 mV

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 7 QC Code: ____ Matrix: Water Tag ID: 5511-7-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: _____

~~MW-30C~~ MW-30A
8/16/11

External Sample Number: _____

~~MW-30C~~ MW-30A
8/16/11

Expected Conc: _____

(or Circle One: Low Medium High)

Date _____

Time(24 hr) _____

Latitude: _____

Sample Collection: Start: _____

9/27/11

17:55

Longitude: _____

End: _____

1/1/11

1/1/11

Field Measurement

Parameter

Value

Units

Conductance, Specific: 0.676 umhos/cm

Dissolved Oxygen: 7.28 mg/L

Temperature: 14.67 Deg C

Turbidity: 1.16 NTU

pH: 6.88 SU

ORP: -64.3 mV

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 61 QC Code: FB Matrix: Water Tag ID: 5511-61-FB

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: LDL VOA Trip Blank sample

External Sample Number: Trip Blank

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

Latitude: _____

Sample Collection: Start: 9/28/11

08:00

Longitude: _____

End: ____/____/____

____:____

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Trip Blank

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 8 QC Code: ____ Matrix: Water Tag ID: 5511-8-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-20E

External Sample Number: MW-20E

Expected Conc: (or Circle One: Low Medium High) **Date:** 9/28/11 **Time(24 hr):** 08:30
Latitude: ____ **Sample Collection: Start:** 9/28/11
Longitude: ____ **End:** 1/1/

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.448</u>	umhos/cm
Dissolved Oxygen:	<u>7.05</u>	mg/L
Temperature:	<u>12.11</u>	Deg C
Turbidity:	<u>0.37</u>	NTU
pH:	<u>7.47</u>	SU

ORP: 56.1 mV

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 9 QC Code: Matrix: Water Tag ID: 5511-9-

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-20D
External Sample Number: MW-20D
Expected Conc: (or Circle One: Low Medium High) Date 9/28/11 Time(24 hr) 09:35
Latitude: Sample Collection: Start: End: :
Longitude: :

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.456	umhos/cm
Dissolved Oxygen :	1.04	mg/L
Temperature :	12.54	Deg C
Turbidity :	4.51	NTU
pH :	6.56	SU ORP: -145.9

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 10 QC Code: ____ Matrix: Water Tag ID: 5511-10-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-ZOC
External Sample Number: MW-ZOC
Expected Conc: (or Circle One: Low Medium High) **Date:** 9/28/11 **Time(24 hr):** 10:30
Latitude: _____ **Sample Collection: Start:** 9/28/11
Longitude: _____ **End:** 1/1/11

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.524</u>	umhos/cm
Dissolved Oxygen :	<u>8.66</u>	mg/L
Temperature :	<u>13.27</u>	Deg C
Turbidity :	<u>0.31</u>	NTU
pH :	<u>6.88</u>	SU

ORP: 12.6 mV

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 11 QC Code: ___ Matrix: Water Tag ID: 5511-11-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-20A
External Sample Number: MW-20A
Expected Conc: (or Circle One: Low Medium High) Date 9/28/11 Time(24 hr) 12:10
Latitude: _____ Sample Collection: Start: 9/28/11 End: 12:10
Longitude: _____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.735</u>	umhos/cm
Dissolved Oxygen :	<u>1.05</u>	mg/L
Temperature :	<u>16.80</u>	Deg C
Turbidity :	<u>1.09</u>	NTU
pH :	<u>6.85</u>	SU

ORP: -50.7

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 12 QC Code: ___ Matrix: Water Tag ID: 5511-12-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: mw-19c

External Sample Number: MW-19C

Expected Conc: (or Circle One: Low Medium High) Date 9/28/11 Time(24 hr) 14:10
Latitude: _____ Sample Collection: Start: _____ End: _____
Longitude: _____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.744</u>	umhos/cm
Dissolved Oxygen :	<u>8.45</u>	mg/L
Temperature :	<u>15.16</u>	Deg C
Turbidity :	<u>0.11</u>	NTU
pH :	<u>6.68</u>	SU

ORP: 48.4

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 **Sample Number:** 13 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5511-13-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: mw-19A
External Sample Number: mw-19A
Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 9/28/11 13:15
Longitude: ____ **End:** ____/____/____ ____:____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>1.027</u>	umhos/cm
Dissolved Oxygen :	<u>7.20</u>	mg/L
Temperature :	<u>17.83</u>	Deg C
Turbidity :	<u>0.30</u>	NTU
pH :	<u>6.93</u>	SU

ORP: 27.4

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 **Sample Number:** 14 **QC Code:** ___ **Matrix:** Water **Tag ID:** 5511-14-___

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-1A
External Sample Number: MW-1A
Expected Conc: (or Circle One: Low Medium High) **Date:** 9/28/11 **Time(24 hr):** 16:00
Latitude: _____ **Sample Collection: Start:** 9/28/11 **End:** 16:00
Longitude: _____ **End:** 16:00

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.716</u>	umhos/cm
Dissolved Oxygen:	<u>7.95</u>	mg/L
Temperature:	<u>15.20</u>	Deg C
Turbidity:	<u>2.50</u>	NTU
pH:	<u>6.80</u>	SU

ORP: 64.3

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 15 QC Code: ____ Matrix: Water Tag ID: 5511-15-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: mw-9A **External Sample Number:** mw-9A

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 9/28/11 17:30
Longitude: ____ **End:** / / :

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.909</u>	umhos/cm
Dissolved Oxygen:	<u>9.29</u>	mg/L
Temperature:	<u>14.29</u>	Deg C
Turbidity:	<u>3.16</u>	NTU
pH:	<u>7.15</u>	SU

ORP: 43.5

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

US EPA ARCHIVE DOCUMENT

Project ID:	BZA72Z01	Project Manager:	Brian Zurbuchen
Project Desc:	Garvey Elevator - RI/FS sampling		
City:	Hastings	State:	Nebraska
Program:	Superfund		
Site Name:	GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER	Site ID:	A72Z Site OU: 01

1 of 1

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 17 QC Code: ___ Matrix: Water Tag ID: 5511-17-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: mw-6AExternal Sample Number: mw-6AExpected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: 9/28/1110:35

Longitude: _____

End: 1/1/1:

Field Measurement

Parameter

Value

Units

Conductance, Specific: 0.833 umhos/cmDissolved Oxygen: 8.92 mg/LTemperature: 13.68 Deg CTurbidity: 1.14 NTUpH: 6.71 SU ORP: 147.5

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 18 QC Code: ____ Matrix: Water Tag ID: 5511-18-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: mw-6E
External Sample Number: mw-6E
Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 9/29/11 11:40
Longitude: _____ **End:** 1/1/ :_

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.346</u>	umhos/cm
Dissolved Oxygen :	<u>4.13</u>	mg/L
Temperature :	<u>15.88</u>	Deg C
Turbidity :	<u>2.48</u>	NTU
pH :	<u>7.08</u>	SU

ORP: 119.6

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 19 QC Code: Matrix: Water Tag ID: 5511-19-

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-7A

External Sample Number: MW-7A

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

Latitude:

Sample Collection: Start: 9/29/11

13:00

Longitude:

End: / /

:

Field Measurement

Parameter

Value

Units

Conductance, Specific: 0810 umhos/cm

Dissolved Oxygen: 8.51 mg/L

Temperature: 12.87 Deg C

Turbidity: 0.51 NTU

pH: 6.77 SU

ORP: 134.0

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 20 QC Code: Matrix: Water Tag ID: 5511-20-

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-7B

External Sample Number: MW-7B

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

Latitude:

Sample Collection: Start: 9/29/11

14:00

Longitude:

End: 1/1/

:

Field Measurement

Parameter

Value

Units

Conductance, Specific: 0.798 umhos/cm

Dissolved Oxygen: 6.73 7.05 mg/L

Temperature: 14.02 Deg C

Turbidity: 0.25 NTU

pH: 6.73 SU

ORP: 131.9

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 21 QC Code: Matrix: Water Tag ID: 5511-21-

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-13E
External Sample Number: MW-13E
Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: Sample Collection: Start: 9/29/11 5:30
Longitude: End: 1/1/11

Field Measurement

Parameter	Value	Units
Conductance, Specific:	0.625	umhos/cm
Dissolved Oxygen:	11.53	mg/L
Temperature:	15.70	Deg C
Turbidity:	2.95	NTU
pH:	7.10	SU

ORP: 134.5

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 **Sample Number:** 22 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5511-22-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-13C

External Sample Number: MW-13C

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 9/29/11 17:30
Longitude: ____ **End:** 1/1/ :

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.616</u>	umhos/cm
Dissolved Oxygen :	<u>12.95</u>	mg/L
Temperature :	<u>14.71</u>	Deg C
Turbidity :	<u>0.45</u>	NTU
pH :	<u>7.02</u>	SU

ORP: 146.0

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 23 QC Code: FD Matrix: Water Tag ID: 5511-~~23~~-22FD
Project ID: BZA72Z01 Project Manager: Brian Zurbuchen 9/29
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-13C
External Sample Number: MW-13C
Expected Conc: (or Circle One: Low Medium High) Date: 9/29/11 Time(24 hr): 17:30
Latitude: _____ Sample Collection: Start: 9/29/11 End: 17:30
Longitude: _____ End: 17:30

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.616</u>	umhos/cm
Dissolved Oxygen :	<u>12.95</u>	mg/L
Temperature :	<u>14.71</u>	Deg C
Turbidity :	<u>0.45</u>	NTU
pH :	<u>7.02</u>	SU

ORP: 146.0

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Duplicate of Sample 5511-22

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 25 QC Code: Matrix: Water Tag ID: 5511-25-

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: Dean Rolls Old Well
External Sample Number: Dean Rolls New Well
Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: Sample Collection: Start: 9/30/11 09:25
Longitude: End: : :

Field Measurement

Parameter

Value

Units

Conductance, Specific : 13.32 0.977 umhos/cm
Dissolved Oxygen : 8.63 mg/L
Temperature : 13.35 Deg C
Turbidity : 5.36 NTU
pH : 7.06 SU ORP: 202.6

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 26 QC Code: ____ Matrix: Water Tag ID: 5511-26-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: Dean Rolls New Well
External Sample Number: Dean Rolls New Well
Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 9/30/11 09:30
Longitude: _____ **End:** 1/1/ :

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.498</u>	umhos/cm
Dissolved Oxygen:	<u>6.87</u>	mg/L
<u>km</u> Temperature:	<u>21.54</u> <u>12.37</u>	Deg C
<u>9/30/11</u> Turbidity:	<u>12.37</u> <u>2.54</u>	NTU
pH:	<u>7.23</u>	SU

ORP: 202.4

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 **Sample Number:** 24 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5511-24-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: mw-3B

External Sample Number: mw-3B

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 9/30/11 10:25
Longitude: ____ **End:** 1/1/ :

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.803</u>	umhos/cm
Dissolved Oxygen :	<u>8.78</u>	mg/L
Temperature :	<u>12.88</u>	Deg C
Turbidity :	<u>0.43</u>	NTU
pH :	<u>6.80</u>	SU

ORP: 190.3

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 27 QC Code: Matrix: Water Tag ID: 5511-27-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: mw-3A
External Sample Number: mw-3A
Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: **Sample Collection: Start:** 9/30/11 12:40
Longitude: **End:** 1/1 :

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.889</u>	umhos/cm
Dissolved Oxygen :	<u>9.01</u>	mg/L
Temperature :	<u>11.12</u>	Deg C
Turbidity :	<u>3.06</u>	NTU
pH :	<u>6.81</u>	SU

ORP: 172.8

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 **Sample Number:** 62 **QC Code:** FB **Matrix:** Water **Tag ID:** 5511-62-FB

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: LDL VOA Trip Blank sample

External Sample Number:

Trip Blank

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

Latitude: _____

Sample Collection: Start:

9/30/11

08:00

Longitude: _____

End:

1/1

:

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 **Sample Number:** 28 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5511-28-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-3E

External Sample Number: MW-3E

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

Latitude: ____

Sample Collection: Start: 9/30/11

13:50

Longitude: ____

End: 1/1/

:_

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.539</u>	umhos/cm
Dissolved Oxygen :	<u>2.61</u>	mg/L
Temperature :	<u>14.07</u>	Deg C
Turbidity :	<u>0.37</u>	NTU
pH :	<u>7.60</u>	SU

ORP: 111.4

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Extra Vol MS/MSD

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 29 QC Code: ___ Matrix: Water Tag ID: 5511-29-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-3D

External Sample Number: MW-3D

Expected Conc: (or Circle One: Low Medium High) Date 9/30/11 Time(24 hr) 14:55
Latitude: ___ Sample Collection: Start: 9/30/11 End: 1/1/___
Longitude: ___

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.564	umhos/cm
Dissolved Oxygen :	7.05	mg/L
Temperature :	15.29	Deg C
Turbidity :	3.11	NTU
pH :	6.85	SU

ORP: 128

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 30 QC Code: ____ Matrix: Water Tag ID: 5511-30-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: mw-8A

External Sample Number: mw-8A

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 9/3/14 17:10
Longitude: _____ **End:** 1/1/ 1/1/

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>1.150</u>	umhos/cm
Dissolved Oxygen :	<u>8.22</u>	mg/L
Temperature :	<u>15.25</u>	Deg C
Turbidity :	<u>0.58</u>	NTU
pH :	<u>8.86</u>	SU

ORP: 132.5

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 **Sample Number:** 63 **QC Code:** FB **Matrix:** Water **Tag ID:** 5511-63-FB

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: LDL VOA Trip Blank sample

External Sample Number: Trip Blank

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 10/1/11 08:00
Longitude: _____ **End:** ____/____/____ ____:____

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Trip Blank

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 31 QC Code: Matrix: Water Tag ID: 5511-31-

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-5B

External Sample Number: MW-5B

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: Sample Collection: Start: 10/1/11 08:35
Longitude: End: 1/1/11

Field Measurement

Parameter	Value	Units
Conductance, Specific:	0.865	umhos/cm
Dissolved Oxygen:	9.47	mg/L
Temperature:	12.18	Deg C
Turbidity:	2.00	NTU
pH:	6.78	SU

ORP: 182.9

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 32 QC Code: Matrix: Water Tag ID: 5511-32-

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-5A

External Sample Number: MW5A

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

Latitude:

Sample Collection: Start: 10/1/11 10:10

Longitude:

End: 1/1/11 :

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.793	umhos/cm
Dissolved Oxygen :	8.84	mg/L
Temperature :	14.38	Deg C
Turbidity :	3.51	NTU
pH :	6.90	SU

ORP: 167.1

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 33 QC Code: ___ Matrix: Water Tag ID: 5511-33-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-5D

External Sample Number: MW-5D

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: _____ Sample Collection: Start: 10/1/11 11:20
Longitude: _____ End: 1/1/ :

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.563</u>	umhos/cm
Dissolved Oxygen:	<u>11.82</u>	mg/L
Temperature:	<u>14.56</u>	Deg C
Turbidity:	<u>4.02</u>	NTU
pH:	<u>6.83</u>	SU

ORP: 161.8

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

US EPA ARCHIVE DOCUMENT

Project ID:	BZA72Z01	Project Manager:	Brian Zurbuchen
Project Desc:	Garvey Elevator - RI/FS sampling		
City:	Hastings	State:	Nebraska
Program:	Superfund		
Site Name:	GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER	Site ID:	A72Z
		Site OU:	01

Field Measurement

Laboratory Analyses:

Sample Comments:

Sample Collected By: HGL

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

ASR Number: 5511 **Sample Number:** 35 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5511-35-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-49 B
External Sample Number: MW-49 B
Expected Conc: (or Circle One: Low Medium High) unknown **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 10/1/11 13:45
Longitude: ____ **End:** 1/1/ :-

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.701</u>	umhos/cm
Dissolved Oxygen :	<u>8.03</u>	mg/L
Temperature :	<u>16.21</u>	Deg C
Turbidity :	<u>0.39</u>	NTU
pH :	<u>6.79</u>	SU

ORP: 161.1

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 36 QC Code: Matrix: Water Tag ID: 5511-36-

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: mw-49C

External Sample Number: mw-49C

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

Latitude:

Sample Collection: Start: 10/1/11

15:15

Longitude:

End:

:

Field Measurement

Parameter

Value

Units

Conductance, Specific: 0.615 umhos/cm

Dissolved Oxygen: 8.36 mg/L

Temperature: 11.50 Deg C

Turbidity: 5.28 NTU

pH: 6.77 SU

029: 16.4

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 37 QC Code: ___ Matrix: Water Tag ID: 5511-37-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-48D
External Sample Number: MW-49D
Expected Conc: (or Circle One: Low Medium High) unk Date 10/1/11 Time(24 hr) 16:35
Latitude: _____ Sample Collection: Start: 10/1/11 End: 16:35
Longitude: _____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.545</u>	umhos/cm
Dissolved Oxygen :	<u>8.13</u>	mg/L
Temperature :	<u>14.52</u>	Deg C
Turbidity :	<u>11.7</u>	NTU
pH :	<u>6.8</u>	SU

ORP: 159.2

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A).

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 38 QC Code: ___ Matrix: Water Tag ID: 5511-38-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: mw-4B

External Sample Number: mw-4B

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: ___ Sample Collection: Start: 10/2/11 11:55
Longitude: ___ End: 1/1 :

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.786</u>	umhos/cm
Dissolved Oxygen :	<u>11.75</u>	mg/L
Temperature :	<u>13.56</u>	Deg C
Turbidity :	<u>3.11</u>	NTU
pH :	<u>6.92</u>	SU

ORP: 181.0

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: ³⁸~~39~~ QC Code: FD Matrix: Water Tag ID: ^{38FD}~~5511-39~~
Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: mw-4B
External Sample Number: mw-4B
Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: _____ Sample Collection: Start: 10/2/11 11:55
Longitude: _____ End: 1/1 :

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.786</u>	umhos/cm
Dissolved Oxygen:	<u>11.75</u>	mg/L
Temperature:	<u>13.56</u>	Deg C
Turbidity:	<u>3.11</u>	NTU
pH:	<u>6.92</u>	SU

ORP: 181.0

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Field Duplicate of Sample 5511-38

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 40 QC Code: ___ Matrix: Water Tag ID: 5511-40-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01
WM 10/2/11

Location Desc: MW-46 SOC
External Sample Number: MW-SOC
Expected Conc: (or Circle One: Low Medium High) unk Date 10/2/11 Time(24 hr) 14:10
Latitude: ___ Sample Collection: Start: 10/2/11 End: 1/1/11
Longitude: ___

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.648</u>	umhos/cm
Dissolved Oxygen :	<u>15.42</u>	mg/L
Temperature :	<u>18.17</u>	Deg C
Turbidity :	<u>12.7</u>	NTU
pH :	<u>7.13</u>	SU

ORP: 158.9

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

WMA 10/2/11

ASR Number: 5511 Sample Number: 40 AT QC Code: FD Matrix: Water Tag ID: 5511-40 FD

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-50C
External Sample Number: MW-50C
Expected Conc: (or Circle One: Low Medium High) Date 10/2/11 Time(24 hr) 14:10
Latitude: Sample Collection: Start: 10/2/11 End: 14:10
Longitude: End: 14:10

Field Measurement

Parameter	Value	Units
Conductance, Specific:	0.648	umhos/cm
Dissolved Oxygen:	15.42	mg/L
Temperature:	18.17	Deg C
Turbidity:	12.7	NTU
pH:	7.13	SU

ORP: 158.9

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Duplicate of 5511-40

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 42 QC Code: ___ Matrix: Water Tag ID: 5511-42-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-50B
External Sample Number: MW-50B
Expected Conc: (or Circle One: Low Medium High) UKN Date 10/24/11 Time(24 hr) 15:15
Latitude: _____ Sample Collection: Start: 10/24/11 End: 1/1/11
Longitude: _____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.543</u>	umhos/cm
Dissolved Oxygen :	<u>7.68</u>	mg/L
Temperature :	<u>18.39</u>	Deg C
Turbidity :	<u>2.85</u>	NTU
pH :	<u>6.96</u>	SU

ORP: 151.8

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 **Sample Number:** 45 **QC Code:** ___ **Matrix:** Water **Tag ID:** 5511-45-___

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-50D
External Sample Number: MW-50D
Expected Conc: (or Circle One: Low Medium High) unknown **Date** **Time(24 hr)**
Latitude: ___ **Sample Collection: Start:** 10/2/11 6:55
Longitude: ___ **End:** 1/1 :-

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.537</u>	umhos/cm
Dissolved Oxygen :	<u>7.96</u>	mg/L
Temperature :	<u>14.63</u>	Deg C
Turbidity :	<u>13.6</u>	NTU
pH :	<u>14.63</u>	SU ORP: <u>152.9</u>

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 55 QC Code: __ Matrix: Water Tag ID: 5511-55-__

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-4A
External Sample Number: MW-4A
Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: _____ Sample Collection: Start: 6/2/11 11:10
Longitude: _____ End: 1/1/ :

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.764</u>	umhos/cm
Dissolved Oxygen :	<u>8.46</u>	mg/L
Temperature :	<u>15.00</u>	Deg C
Turbidity :	<u>1.27</u>	NTU
pH :	<u>6.81</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP = -142.9

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 57 QC Code: __ Matrix: Water Tag ID: 5511-57-__

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW 48 C
External Sample Number: MW 48C
Expected Conc: (or Circle One: Low Medium High) Unknown Date 10/2/11 Time(24 hr) 13:35
Latitude: Sample Collection: Start: 10/2/11 End: 13:35
Longitude: End: 13:35

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.689	umhos/cm
Dissolved Oxygen :	7.20	mg/L
Temperature :	20.68	Deg C
Turbidity :	45.6	NTU
pH :	6.83	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -159.8

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: ⁵⁷58_{10/2/11} QC Code: FD Matrix: Water Tag ID: 5511-^{57-FD}58_{10/2/11}

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: Mw 48C
External Sample Number: Mw 48C
Expected Conc: (or Circle One: Low Medium High) Unknown Date 10/2/11 Time(24 hr) 13:35
Latitude: _____ Sample Collection: Start: 10/2/11 End: 1/1/11
Longitude: _____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.689</u>	umhos/cm
Dissolved Oxygen :	<u>7.20</u>	mg/L
Temperature :	<u>20.68</u>	Deg C
Turbidity :	<u>45.6</u>	NTU
pH :	<u>6.83</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -159.8

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 59 QC Code: ___ Matrix: Water Tag ID: 5511-59-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW 48 B

External Sample Number: MW 48B

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

Latitude: ___ Sample Collection: Start: 10/2/11 15:20
Longitude: ___ End: 1/1/___

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.887	umhos/cm
Dissolved Oxygen :	8.28	mg/L
Temperature :	19.55	Deg C
Turbidity :	17.6	NTU
pH :	6.98	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -160.4

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 60 QC Code: ___ Matrix: Water Tag ID: 5511-60-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW 51 B

External Sample Number: MW 51 B

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: _____ Sample Collection: Start: 10/2/11 16:55
Longitude: _____ End: 1/1 ---

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.724</u>	umhos/cm
Dissolved Oxygen :	<u>10.34</u>	mg/L
Temperature :	<u>19.37</u>	Deg C
Turbidity :	<u>1.10</u>	NTU
pH :	<u>7.07</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -142.9

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5511 Sample Number: 43 QC Code: ___ Matrix: Water Tag ID: 5511-43-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-47 BExternal Sample Number: MW-47BExpected Conc: (or Circle One: Low Medium High) (UNK) Date Time(24 hr)

Latitude: _____ Sample Collection: Start: 10/3/16 09:50
Longitude: _____ End: 1/1/ :

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.880</u>	umhos/cm
Dissolved Oxygen:	<u>9.23</u>	mg/L
Temperature:	<u>13.54</u>	Deg C
Turbidity:	<u>1.78</u>	NTU
pH:	<u>6.91</u>	SU

ORP: 139.7

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

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

ASR Number: 5511 Sample Number: 44 QC Code: ____ Matrix: Water Tag ID: 5511-44-__

Project ID: BZA72Z01 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER **Site ID:** A72Z **Site OU:** 01

Location Desc: MW-47C
External Sample Number: MW-47C
Expected Conc: (or Circle One: Low Medium High) **Date:** 10/3/11 **Time(24 hr):** 10:00
Latitude: _____ **Sample Collection: Start:** 10/3/11
Longitude: _____ **End:** 1/1/11

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.780</u>	umhos/cm
Dissolved Oxygen :	<u>8.88</u>	mg/L
Temperature :	<u>14.96</u>	Deg C
Turbidity :	<u>0.25</u>	NTU
pH :	<u>6.72</u>	SU

ORP: -202.0

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 46 QC Code: Matrix: Water Tag ID: 5511-46-

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-47D

External Sample Number: MW-47D

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: Sample Collection: Start: 10/3/11 11:00
Longitude: End: 1/1/11

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.628	umhos/cm
Dissolved Oxygen :	8.15	mg/L
Temperature :	14.99	Deg C
Turbidity :	2.12	NTU
pH :	6.93	SU

ORP: -4.3

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 48 QC Code: ___ Matrix: Water Tag ID: 5511-48-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

MW-51D

Location Desc: _____

External Sample Number: unk

MW-51D

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

Latitude: _____

Sample Collection: Start: 10/3/11 12:40

Longitude: _____

End: 1/1/11 :_

Field Measurement

Parameter

Value

Units

Conductance, Specific: 0.673 umhos/cm

Dissolved Oxygen: 10.31 mg/L

Temperature: 15.43 Deg C

Turbidity: 3.49 NTU

pH: 7.60 SU ORP: -207.8

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 47 QC Code: ___ Matrix: Water Tag ID: 5511-47-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-51C

External Sample Number: MW-51C

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

Latitude: ___

Sample Collection: Start: 10/3/11 13:10

Longitude: ___

End: 1/1/11 1:00

Field Measurement

Parameter

Value

Units

Conductance, Specific: 0.697 umhos/cm

Dissolved Oxygen: 7.55 mg/L

Temperature: 16.32 Deg C

Turbidity: 4.85 NTU

pH: 7.55 SU ORP: 14.5

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 49 QC Code: __ Matrix: Water Tag ID: 5511-49-__

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: MW-48DExternal Sample Number: MW-48D

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

Latitude: ____

Sample Collection: Start: 10/3/11 14:40

Longitude: ____

End: 1/1 :

Field Measurement

Parameter

Value

Units

Conductance, Specific: 0.679 umhos/cmDissolved Oxygen: 14.33 mg/LTemperature: 16.37 Deg CTurbidity: 3.38 NTUpH: 7.27 SUORP: 62.1

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	<u>4 deg C</u> <u>2 Deg C, HCL to pH < 2</u> <u>Wm 10/3/11</u>	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Unpreserved LDL VOA's due to reaction of sample water with HCL.

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 51 QC Code: ___ Matrix: Water Tag ID: 5511-51-___

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: Rinsate Blank
External Sample Number: Rinsate
Expected Conc: (or Circle One: Low Medium High) Date 10/3/11 Time(24 hr) 15:15
Latitude: _____ Sample Collection: Start: 10/3/11 End: 1/1/11
Longitude: _____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>—</u>	umhos/cm
Dissolved Oxygen :	<u>—</u>	mg/L
Temperature :	<u>—</u>	Deg C
Turbidity :	<u>—</u>	NTU
pH :	<u>—</u>	SU

ORP: —

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5511 Sample Number: 64 QC Code: FB Matrix: Water Tag ID: 5511-64-FB

Project ID: BZA72Z01 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND GROUNDWATER Site ID: A72Z Site OU: 01

Location Desc: LDL VOA Trip Blank sample

External Sample Number: Trip Blank

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: _____ Sample Collection: Start: 10/3/11 08:00
Longitude: _____ End: 1/1/11 _____

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Trip Blank

Sample Collected By: HGL

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

ACTIVITY LEADER(Print) <i>Brian Turbucken</i>	NAME OF SURVEY OR ACTIVITY <i>Garvey Elevator RI/FS Sampling</i>	DATE OF COLLECTION 28/29 09 11 DAY MONTH YEAR	SHEET of 1
--	---	---	---------------

CONTENTS OF SHIPMENT

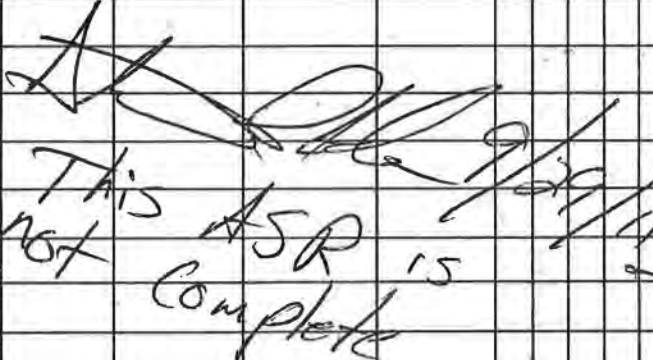
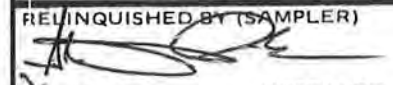
SAMPLE NUMBER	TYPE OF CONTAINERS					SAMPLED MEDIA					RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	water	soil	sediment	just	other	
5512-45-FB					1	X					Trip Blank
5512-1					3	X					extra volume for MS/MSD
5512-2					1	X					
5512-3					1	X					
5512-4					1	X					
5512-5					1	X					
5512-6					1	X					
5512-7					1	X					
5512-8					1	X					
5512-9					1	X					
5512-10					1	X					
5512-10 FD					1	X					
45P Not Complete 9/28/11											

DESCRIPTION OF SHIPMENT ____ PIECE(S) CONSISTING OF ____ BOX(ES) ☒ ICE CHEST(S); OTHER _____	MODE OF SHIPMENT ☒ COMMERCIAL CARRIER: <u>FED EX</u> ☐ COURIER ☐ SAMPLER CONVEYED _____ (SHIPPING DOCUMENT NUMBER)
--	---

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER) <i>[Signature]</i>	DATE 9/28/11	TIME 1700	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☒ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	

CHAIN OF CUSTODY RECORD ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print) <i>Brian Zurbuchen</i>		NAME OF SURVEY OR ACTIVITY <i>Garvey Elevator RI/RS</i>		DATE OF COLLECTION <i>9/29</i> DAY MONTH YEAR			SHEET 1 of 1				
CONTENTS OF SHIPMENT											
SAMPLE NUMBER	TYPE OF CONTAINERS				SAMPLED MEDIA				RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)		
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (VIALS EA)	water	soil	sediment		dust	other
NUMBERS OF CONTAINERS PER SAMPLE NUMBER											
5512-12					1	+					
5512-13					1	+					
5512-14					1	+					
5512-15					1	+					
5512-46-FB					1	+					Trip Blank
5512-16					1	+					
5512-17					1	+					
5512-17FD					1	+					Field Duplicate
5512-19					1	+					
5512-20					3	+					Extra Volume for MS/MSD
5512-21					1	+					
5512-22					1	+					Rinsate Blank
5512-23					1	+					
 This ASR is not complete											
DESCRIPTION OF SHIPMENT					MODE OF SHIPMENT						
_____ PIECE(S) CONSISTING OF _____ BOX(ES) _____ ICE CHEST(S); OTHER _____					_____ COMMERCIAL CARRIER: _____ _____ COURIER _____ SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER)						
PERSONNEL CUSTODY RECORD											
RELINQUISHED BY (SAMPLER)		DATE	TIME	RECEIVED BY		REASON FOR CHANGE OF CUSTODY					
		9/29/11	1700								
☒ SEALED ☐ UNSEALED				☐ SEALED ☐ UNSEALED							
RELINQUISHED BY		DATE	TIME	RECEIVED BY		REASON FOR CHANGE OF CUSTODY					
☐ SEALED ☐ UNSEALED				☐ SEALED ☐ UNSEALED							
RELINQUISHED BY		DATE	TIME	RECEIVED BY		REASON FOR CHANGE OF CUSTODY					
☐ SEALED ☐ UNSEALED				☐ SEALED ☐ UNSEALED							

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print) <u>Brian Zurbuchen</u>	NAME OF SURVEY OR ACTIVITY <u>Garvey Elevator RI/FS</u>	DATE OF COLLECTION <u>09/30/11</u> <u>9/10</u> <u>2011</u> DAY MONTH YEAR	SHEET <u>1</u> of <u>1</u>
--	--	---	-------------------------------

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS					VOA SET (2 VIALS EA)	SAMPLED MEDIA					RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE	NUMBERS OF CONTAINERS PER SAMPLE NUMBER		water	soil	sediment	just	other	
5512-24					1		X					
5512-24 FD					1		X					Field Duplicate
5512-47 FB					1		X					Field Blank (Tip Blank)
5512-26					3		X					ms/msd
5512-27					1		X					
5512-28					1		X					
5512-28 FD					1		X					Field Duplicate
5512-30					1		X					
5512-31					1		X					
5512-32					1		X					
5512-33					1		X					
5512-34					1		X					
5512-35					1		X					
5512-36					1		X					
5512-37					1		X					
5512-38					1		X					
5512-39					1		X					
5512-40					1		X					
5512-41					1		X					
<u>NO MORE 10/1/11</u>												
<u>ASR is complete</u>												

DESCRIPTION OF SHIPMENT _____ PIECE(S) CONSISTING OF _____ BOX(ES) _____ ICE CHEST(S): OTHER _____	MODE OF SHIPMENT _____ COMMERCIAL CARRIER _____ _____ COURIER _____ _____ SAMPLER CONVEYED _____ (SHIPPING DOCUMENT NUMBER)
---	---

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER) <u>[Signature]</u>	DATE <u>10/3/11</u>	TIME <u>1420</u>	RECEIVED BY <u>RD Wiggan</u>	REASON FOR CHANGE OF CUSTODY <u>Rec'd at Lab</u>
☒ SEALED ☐ UNSEALED			☒ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	
RELINQUISHED BY	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED	

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5512 Sample Number: 45 QC Code: FB Matrix: Water Tag ID: 5512-45-FB

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: LDL VOA Trip Blank sample

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date _____ Time(24 hr) _____
Latitude: _____ Sample Collection: Start: 9/21/11 11:27
Longitude: _____ End: 9/28/11 08:50

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

Sample Start Time is Date & Time EPA
prepared sample in Lab.

Sample End Time is Date & Time HGL
prepared Lab in Field

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5512 Sample Number: 1 QC Code: ___ Matrix: Water Tag ID: 5512-1-___

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW-18D

External Sample Number: MW-18D

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

Latitude: _____

Sample Collection: Start: 9/27/11

12:15

Longitude: _____

End: 9/27/11

SPM 9/27/11

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.515</u>	umhos/cm
Dissolved Oxygen:	<u>70.5</u>	mg/L
Temperature:	<u>7.16</u>	Deg C
Turbidity:	<u>3.17</u>	NTU
pH:	<u>6.76</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -222.5

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5512 Sample Number: 2 QC Code: Matrix: Water Tag ID: 5512-2-

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 18 A

External Sample Number: MW 18 A

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

Latitude:

Sample Collection: Start: 9/27/11 13:25

Longitude:

End: 9/27/11 13:25 (SPD) 9/27/11

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.515	umhos/cm
Dissolved Oxygen :	2.53	mg/L
Temperature :	17.91	Deg C
Turbidity :	430	NTU
pH :	7.25	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP -260.8

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5512 Sample Number: 3 QC Code: ___ Matrix: Water Tag ID: 5512-3-___

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc:

~~MW 18A~~ MW-18C
86 11/16/11

External Sample Number:

~~MW 18A~~ MW-18C
86 11/16/11

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

Date

Time(24 hr)

Latitude: _____

Sample Collection: Start:

9/27/11

14:50

Longitude: _____

End:

9/27/11

14:52

Field Measurement

Parameter

Value

Units

Conductance, Specific:

0.728

umhos/cm

Dissolved Oxygen:

5.82

mg/L

Temperature:

24.21

Deg C

Turbidity:

2.04

NTU

pH:

6.91

SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -136.2

Sample Collected By: HGL

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

ASR Number: 5512 Sample Number: 4 QC Code: ____ Matrix: Water Tag ID: 5512-4-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 44 E

External Sample Number: MW 44E

Expected Conc: (or Circle One: Low Medium High) **Date** **Time (24 hr)**
Latitude: _____ **Sample Collection: Start:** 9/27/11 16:20 9/27/11
Longitude: _____ **End:** 9/27/11 18:13 9/27/11

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.348</u>	umhos/cm
Dissolved Oxygen :	<u>43.9</u>	mg/L
Temperature :	<u>16.61</u>	Deg C
Turbidity :	<u>43.9</u>	NTU
pH :	<u>7.17</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -217.1

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5512 Sample Number: 5 QC Code: ___ Matrix: Water Tag ID: 5512-5-___

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 44D

External Sample Number: MW 44D

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: _____ Sample Collection: Start: 9/27/11 18:13
Longitude: _____ End: 9/27/11 18:15

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.918	umhos/cm
Dissolved Oxygen :	5.54	mg/L
Temperature :	13.98	Deg C
Turbidity :	31.9	NTU
pH :	6.99	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -210.6

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5512 Sample Number: 6 QC Code: Matrix: Water Tag ID: 5512-6-

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 43 E

External Sample Number: MW 43 E

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: Sample Collection: Start: 7/28/11 09:05
Longitude: End: 7/28/11 09:07

Field Measurement

Parameter	Value	Units
Conductance, Specific:	0.406	umhos/cm
Dissolved Oxygen:	6.29	mg/L
Temperature:	13.02	Deg C
Turbidity:	22.5	NTU
pH:	6.87	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -222.3

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5512 Sample Number: 7 QC Code: Matrix: Water Tag ID: 5512-7-

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 43 D

External Sample Number: MW 43 D

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

Latitude:

Sample Collection: Start: 9/28/11 09:45

Longitude:

End: 9/28/11 09:47

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.554	umhos/cm
Dissolved Oxygen :	8.53	mg/L
Temperature :	13.78	Deg C
Turbidity :	10.7	NTU
pH :	6.72	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP:

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 8 **QC Code:** **Matrix:** Water **Tag ID:** 5512-8-

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 41 D2
External Sample Number: MW 41 D2
Expected Conc: (or Circle One: Low Medium High) **Date** 09/28/11 **Time(24 hr)** 11:00
Latitude: **Sample Collection: Start:** 09/28/11 11:00
Longitude: **End:** 09/28/11 11:02

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.355</u>	umhos/cm
Dissolved Oxygen :	<u>5.39</u>	mg/L
Temperature :	<u>14.29</u>	Deg C
Turbidity :	<u>27.5</u>	NTU
pH :	<u>6.96</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -251.6

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5512 Sample Number: 9 QC Code: Matrix: Water Tag ID: 5512-9-

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 41 D1
External Sample Number: MW 41 D1
Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: Sample Collection: Start: 09/28/11 12:35
Longitude: End: 09/28/11 12:37

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.693	umhos/cm
Dissolved Oxygen :	7.83	mg/L
Temperature :	15.89	Deg C
Turbidity :	4.7	NTU
pH :	6.75	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -205.7

Sample Collected By: HGL

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

ASR Number: 5512 Sample Number: 10 QC Code: ____ Matrix: Water Tag ID: 5512-10-____

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 105 D

External Sample Number: MW 105 D

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: ____ Sample Collection: Start: 9/28/11 13:45
Longitude: ____ End: 9/28/11 13:47

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.430</u>	umhos/cm
Dissolved Oxygen:	<u>6.18</u>	mg/L
Temperature:	<u>23.40</u>	Deg C
Turbidity:	<u>1.86</u>	NTU
pH:	<u>7.05</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -194.1

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5512 Sample Number: ¹⁰~~11~~ QC Code: FD Matrix: Water Tag ID: 5512-^{10-FD}~~11~~ _{SD 9/23/11} _{SD 9/28/11}

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 105 D

External Sample Number: MW 105 D

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

Latitude: _____

Sample Collection: Start: 9/28/11 13:45

Longitude: _____

End: 9/28/11 13:47

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.430</u>	umhos/cm
Dissolved Oxygen :	<u>6.18</u>	mg/L
Temperature :	<u>23.46</u>	Deg C
Turbidity :	<u>1.86</u>	NTU
pH :	<u>7.05</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -194.1

Field Dup of 5512-10

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 12 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5512-12-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 105 C

External Sample Number: MW 105 C

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 9/28/11 14:35
Longitude: _____ **End:** 9/28/11 14:37

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.659</u>	umhos/cm
Dissolved Oxygen :	<u>7.11</u>	mg/L
Temperature :	<u>20.69</u>	Deg C
Turbidity :	<u>206</u>	NTU
pH :	<u>6.78</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -186.9

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5512 Sample Number: 13 QC Code: ___ Matrix: Water Tag ID: 5512-13-___

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 105 AExternal Sample Number: MW 105 AExpected Conc: (or Circle One: Low Medium High) Date Time(24 hr)

Latitude: _____

Sample Collection: Start: 9/28/1115:30

Longitude: _____

End: 9/28/1115:32

Field Measurement

Parameter

Value

Units

Conductance, Specific: 0.881 umhos/cmDissolved Oxygen: 8.56 mg/LTemperature: 17.03 Deg CTurbidity: 1.28 NTUpH: 6.87 SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -196.5

Sample Collected By: HGL

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

ASR Number: 5512 Sample Number: 14 QC Code: ____ Matrix: Water Tag ID: 5512-14-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 46 D2

External Sample Number: MW 46 D2

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 9/28/11 16:35
Longitude: _____ **End:** 9/28/11 16:37

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>6.555</u>	umhos/cm
Dissolved Oxygen :	<u>6.46</u>	mg/L
Temperature :	<u>18.52</u>	Deg C
Turbidity :	<u>18.0</u>	NTU
pH :	<u>6.90</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP - 216.8

Sample Collected By: HGL

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

ASR Number: 5512 Sample Number: 15 QC Code: ____ Matrix: Water Tag ID: 5512-15-__

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 46 DI

External Sample Number: MW 46 DI

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: _____ Sample Collection: Start: 9/28/11 17:30
Longitude: _____ End: 9/28/11 17:32

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.589</u>	umhos/cm
Dissolved Oxygen :	<u>6.12</u>	mg/L
Temperature :	<u>22.64</u>	Deg C
Turbidity :	<u>591</u>	NTU
pH :	<u>6.77</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

GRP: ~197.0

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5512 Sample Number: 46 QC Code: FB Matrix: Water Tag ID: 5512-46-FB

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: LDL VOA Trip Blank sample

External Sample Number: _____

Expected Conc: _____ (or Circle One: Low Medium High) Date: _____ Time(24 hr): _____
Latitude: _____ Sample Collection: Start: 9/21/11 11:23
Longitude: _____ End: 9/29/11 08:00

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Sample collection Start Time is when EPA prepared it in Lab.
Sample collection End Time is when HGL Labeled the sample in the field.

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 16 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5512-16-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 42 E

External Sample Number: MW 42E

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 9/29/11 09:40
Longitude: _____ **End:** 9/29/11 ____:

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.426</u>	umhos/cm
Dissolved Oxygen :	<u>6.30</u>	mg/L
Temperature :	<u>15.88</u>	Deg C
Turbidity :	<u>57.7</u>	NTU
pH :	<u>6.94</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)
ORP -172.68

Sample Collected By: HGL

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

ASR Number: 5512 Sample Number: 17 QC Code: ____ Matrix: Water Tag ID: 5512-17-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 42 D

External Sample Number: MW42 D

Expected Conc: (or Circle One: Low) Medium High **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 09/29/11 08:30
Longitude: ____ **End:** 1/1/ ____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.513</u>	umhos/cm
Dissolved Oxygen :	<u>7.50</u>	mg/L
Temperature :	<u>15.43</u>	Deg C
Turbidity :	<u>54.6</u>	NTU
pH :	<u>6.88</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)
ORP: ~163.0

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5512 Sample Number: ¹⁷18_{9/29/11} QC Code: FD Matrix: Water Tag ID: 5512-18^{17 FD}_{9/29/11}
Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 42 D
External Sample Number: MW 42 D
Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: _____ Sample Collection: Start: 09/29/11 10:30
Longitude: _____ End: 11 :

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.513</u>	umhos/cm
Dissolved Oxygen :	<u>7.50</u>	mg/L
Temperature :	<u>15.43</u>	Deg C
Turbidity :	<u>54.6</u>	NTU
pH :	<u>6.88</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -163.0

Sample Collected By: HGL

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

ASR Number: 5512 Sample Number: 19 QC Code: ____ Matrix: Water Tag ID: 5512-19-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 106 A

External Sample Number: MW 106 A

Expected Conc: (or Circle One: Low Medium High) **Date:** 9/24/11 **Time(24 hr):** 11:50
Latitude: _____ **Sample Collection: Start:** 9/24/11 **End:** 1/1
Longitude: _____ **End:** 1/1

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.831</u>	umhos/cm
Dissolved Oxygen :	<u>8.51</u>	mg/L
Temperature :	<u>15.52</u>	Deg C
Turbidity :	<u>1.80</u>	NTU
pH :	<u>6.83</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -193.8

Sample Collected By: HGL

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

ASR Number: 5512 Sample Number: 20 QC Code: _____ Matrix: Water Tag ID: 5512-20-_____

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 106 C

External Sample Number: MW 106 C

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: _____ Sample Collection: Start: 9/29/11 12:50
Longitude: _____ End: 1/1/ :

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.580</u>	umhos/cm
Dissolved Oxygen :	<u>7.48</u>	mg/L
Temperature :	<u>16.74</u>	Deg C
Turbidity :	<u>0.50</u>	NTU
pH :	<u>6.60</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

MS/MSD collected

ORP: -151.2

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 21 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5512-21-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 106 D

External Sample Number: MW 106 D

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 9/29/11 13:55
Longitude: _____ **End:** 1/1/ :

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.465</u>	umhos/cm
Dissolved Oxygen :	<u>5.49</u>	mg/L
Temperature :	<u>17.09</u>	Deg C
Turbidity :	<u>0.71</u>	NTU
pH :	<u>6.99</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -169.00

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5512 Sample Number: 22 QC Code: ___ Matrix: Water Tag ID: 5512-22-___

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: Pump Rinseate Blank
External Sample Number: Pump Rinseate Blank
Expected Conc: (or Circle One: Low Medium High) Date 9/29/11 Time(24 hr) 14:15
Latitude: _____ Sample Collection: Start: _____ End: _____
Longitude: _____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>N/A</u>	umhos/cm
Dissolved Oxygen :	<u>N/A</u>	mg/L
Temperature :	<u>N/A</u>	Deg C
Turbidity :	<u>N/A</u>	NTU
pH :	<u>N/A</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Rinseate Blank collected by using D.I. Water
Supplied by E.P.A. Lab for ASR 5512

Sample Collected By: HGL

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

ASR Number: 5512 Sample Number: 23 QC Code: ____ Matrix: Water Tag ID: 5512-23-____

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 45 D
External Sample Number: MW 45 D
Expected Conc: (or Circle One: Low Medium High) Date: 9/24/11 Time(24 hr): 15:45
Latitude: _____ Sample Collection: Start: 9/24/11 End: 15:45
Longitude: _____ End: 15:45

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.580</u>	umhos/cm
Dissolved Oxygen :	<u>8.95</u>	mg/L
Temperature :	<u>18.65</u>	Deg C
Turbidity :	<u>9.70</u>	NTU
pH :	<u>7.04</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -126.2

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5512 Sample Number: 24 QC Code: ___ Matrix: Water Tag ID: 5512-24-___

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 45C

External Sample Number: MW 45C

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

Latitude: _____

Sample Collection: Start: 9/29/11

17:05

Longitude: _____

End: 1/1

:_

Field Measurement

Parameter

Value

Units

Conductance, Specific: 0.668 umhos/cm

Dissolved Oxygen: 6.59 mg/L

Temperature: 19.17 Deg C

Turbidity: 53.1 NTU

pH: 7.24 SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -157.3

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5512 Sample Number: ²⁴25 / ^{SP}9/29/11 QC Code: FD Matrix: Water Tag ID: 5512-25 ^{24-FD} / ^{SP}9/29/11

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen

Project Desc: Garvey Elevator - RI/FS sampling

City: Hastings

State: Nebraska

Program: Superfund

Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER

Site ID: A72Z Site OU: 02

Location Desc: MW 45C

External Sample Number: MW 45C

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

Latitude: _____

Sample Collection: Start: 9/29/11

17:05

Longitude: _____

End: 1/1

:-

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.668</u>	umhos/cm
Dissolved Oxygen :	<u>6.59</u>	mg/L
Temperature :	<u>19.17</u>	Deg C
Turbidity :	<u>53.1</u>	NTU
pH :	<u>7.24</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -157.3

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 47 **QC Code:** FB **Matrix:** Water **Tag ID:** 5512-47-FB

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: LDL VOA Trip Blank sample

External Sample Number: LDL VOA Trip blank sample

Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: _____ **Sample Collection: Start:** 9/21/11 11:25
Longitude: _____ **End:** 9/30/11 8:15

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) Sample start Time is when EPA Lab prepared Sample

Sample End Time is when HGL prepared Lab in Field

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 26 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5512-26-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 12 D
External Sample Number: MW 12 D
Expected Conc: (or Circle One: Low Medium High) **Date:** 9/30/14 **Time(24 hr):** 8:50
Latitude: _____ **Sample Collection: Start:** 9/30/14
Longitude: _____ **End:** 1/1/

Field Measurement

Parameter	Value	Units
Conductance, Specific:	<u>0.423</u>	umhos/cm
Dissolved Oxygen:	<u>7.08</u>	mg/L
Temperature:	<u>12.19</u>	Deg C
Turbidity:	<u>38.2</u>	NTU
pH:	<u>6.72</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP -174.4
Extra volume for MS/MSD

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 27 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5512-27-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 12A

External Sample Number: MW 12A

Expected Conc: (or Circle One: Low Medium High) **Date:** 9/30/11 **Time(24 hr)**

Latitude: _____

Sample Collection: Start: 9:30 9:45

Longitude: _____

End: 11 :

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.905</u>	umhos/cm
Dissolved Oxygen :	<u>8.12</u>	mg/L
Temperature :	<u>13.99</u>	Deg C
Turbidity :	<u>17.5</u>	NTU
pH :	<u>6.80</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -153.6

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5512 Sample Number: 28 QC Code: ___ Matrix: Water Tag ID: 5512-28-___

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 12 C

External Sample Number: MW 12 C

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

Latitude: ___

Sample Collection: Start: 9/30/11

10:40

Longitude: ___

End: 1/1/

:-

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>6.566</u>	umhos/cm
Dissolved Oxygen :	<u>7.78</u>	mg/L
Temperature :	<u>14.99</u>	Deg C
Turbidity :	<u>7.78</u>	NTU
pH :	<u>6.76</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -151.9

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5512 Sample Number: ²⁸~~29~~ QC Code: FD Matrix: Water Tag ID: ^{28FD}~~5512-29~~
~~SP 9/30/11~~ ~~SP 9/29/11~~

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen

Project Desc: Garvey Elevator - RI/FS sampling

City: Hastings

State: Nebraska

Program: Superfund

Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER

Site ID: A72Z Site OU: 02

Location Desc: MW 12C

External Sample Number: MW-12C

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

Latitude: _____

Sample Collection: Start: 9/30/11

10:40

Longitude: _____

End: 1/1

:_

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.566</u>	umhos/cm
Dissolved Oxygen :	<u>7.78</u>	mg/L
Temperature :	<u>14.99</u>	Deg C
Turbidity :	<u>3.05</u>	NTU
pH :	<u>6.76</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP -151.9

Field Duplicate of 5512-28FD

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 30 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5512-30-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 16 A

External Sample Number: MW 16 A

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

Latitude: ____

Sample Collection: Start: 9/30/11 12:25

Longitude: ____

End: 1/1 : ____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.911</u>	umhos/cm
Dissolved Oxygen :	<u>8.50</u>	mg/L
Temperature :	<u>15.53</u>	Deg C
Turbidity :	<u>4.12</u>	NTU
pH :	<u>6.73</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP -133.3

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5512 Sample Number: 31 QC Code: ___ Matrix: Water Tag ID: 5512-31-___

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 16C

External Sample Number: MW 16C

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

Latitude: _____

Sample Collection: Start: 9/30/11 13:20

Longitude: _____

End: 1/1 —:—

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.767</u>	umhos/cm
Dissolved Oxygen :	<u>6.20</u>	mg/L
Temperature :	<u>15.66</u>	Deg.C
Turbidity :	<u>1.87</u>	NTU
pH :	<u>6.57</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -157.3

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 32 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5512-32-____

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: _____ MW 17 A

External Sample Number: _____ MW 17A

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

Latitude: _____

Sample Collection: Start: 9/30/11 15:10

Longitude: _____

End: ____/____/____ ____:____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	0.762	umhos/cm
Dissolved Oxygen :	8.59	mg/L
Temperature :	12.94	Deg C
Turbidity :	0.45	NTU
pH :	6.78	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -144.4

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 33 **QC Code:** ___ **Matrix:** Water **Tag ID:** 5512-33-___

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 17 C

External Sample Number: MW 17 C

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

Latitude: ___ **Sample Collection: Start:** 9/30/11 16:10
Longitude: ___ **End:** 1/1/ :-

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>6.291</u>	umhos/cm
Dissolved Oxygen :	<u>4.91</u>	mg/L
Temperature :	<u>13.59</u>	Deg C
Turbidity :	<u>1.09</u>	NTU
pH :	<u>7.04</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -191.3

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5512 Sample Number: 34 QC Code: ___ Matrix: Water Tag ID: 5512-34-___

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 17 D

External Sample Number: MW 17 D

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

Latitude: ___

Sample Collection: Start: 9/30/11

17:05

Longitude: ___

End: 1/1

17:05

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.607</u>	umhos/cm
Dissolved Oxygen :	<u>7.32</u>	mg/L
Temperature :	<u>15.12</u>	Deg C
Turbidity :	<u>3.02</u>	NTU
pH :	<u>6.86</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -45.7

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5512 Sample Number: 35 QC Code: ___ Matrix: Water Tag ID: 5512-35-___

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 104 A
External Sample Number: MW 104 A
Expected Conc: (or Circle One: Low Medium High) Date 10/1/11 Time(24 hr) 08:25
Latitude: _____ Sample Collection: Start: 10/1/11 End: 10/1/11
Longitude: _____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.780</u>	umhos/cm
Dissolved Oxygen :	<u>8.21</u>	mg/L
Temperature :	<u>13.03</u>	Deg C
Turbidity :	<u>0.29</u>	NTU
pH :	<u>6.91</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -202.7

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 36 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5512-36-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 104C
External Sample Number: MW 104C
Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 10/1/11 09:30
Longitude: ____ **End:** 1/1/ :

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.396</u>	umhos/cm
Dissolved Oxygen :	<u>5.40</u>	mg/L
Temperature :	<u>15.07</u>	Deg C
Turbidity :	<u>0.86</u>	NTU
pH :	<u>6.89</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -231.5

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5512 Sample Number: 37 QC Code: Matrix: Water Tag ID: 5512-37-

Project ID: BZA72Z02

Project Manager: Brian Zurbuchen

Project Desc: Garvey Elevator - RI/FS sampling

City: Hastings

State: Nebraska

Program: Superfund

Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER

Site ID: A72Z Site OU: 02

Location Desc: MW 104 D

External Sample Number: MW 184 D

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

Latitude:

Sample Collection: Start: 10/1/11

10:30

Longitude:

End: 1/1/

:

Field Measurement

Parameter

Value

Units

Conductance, Specific : 0.308 umhos/cm

Dissolved Oxygen : 3.71 mg/L

Temperature : 16.62 Deg C

Turbidity : 0.46 NTU

pH : 7.09 SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -241.0

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 38 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5512-38-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 14 A
External Sample Number: MW 14 A
Expected Conc: (or Circle One: Low Medium High) **Date** **Time(24 hr)**
Latitude: ____ **Sample Collection: Start:** 10/1/11 11:55
Longitude: ____ **End:** 1/1 ____

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.924</u>	umhos/cm
Dissolved Oxygen :	<u>6.34</u>	mg/L
Temperature :	<u>18.51</u>	Deg C
Turbidity :	<u>1.11</u>	NTU
pH :	<u>6.68</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -190.1

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7
Kansas City, KS

ASR Number: 5512 Sample Number: 39 QC Code: Matrix: Water Tag ID: 5512-39-

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW - 10 B
External Sample Number: MW - 10 B
Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: Sample Collection: Start: 10/1/11 13:30
Longitude: End: 1/1/11

Field Measurement

Parameter	Value	Units
Conductance, Specific :	6.788	umhos/cm
Dissolved Oxygen :	7.64	mg/L
Temperature :	17.08	Deg C
Turbidity :	0.94	NTU
pH :	6.91	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A) ORP: -178.2

Sample Collected By: HGL

Sample Collection Field Sheet

US EPA Region 7

Kansas City, KS

ASR Number: 5512 Sample Number: 40 QC Code: Matrix: Water Tag ID: 5512-40-

Project ID: BZA72Z02 Project Manager: Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings State: Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER Site ID: A72Z Site OU: 02

Location Desc: MW 10 A

External Sample Number: MW 10 A

Expected Conc: (or Circle One: Low Medium High) Date Time(24 hr)
Latitude: Sample Collection: Start: 10/1/11 14:45
Longitude: End: 1:1

Field Measurement

Parameter

Value Units
Conductance, Specific : 8.20 0.869 umhos/cm
Dissolved Oxygen : 8.20 mg/L
Temperature : 16.40 Deg C
Turbidity : 11.2 NTU
pH : 6.91 SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs In Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -179.9

Sample Collected By: HGL

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

ASR Number: 5512 **Sample Number:** 41 **QC Code:** ____ **Matrix:** Water **Tag ID:** 5512-41-__

Project ID: BZA72Z02 **Project Manager:** Brian Zurbuchen
Project Desc: Garvey Elevator - RI/FS sampling
City: Hastings **State:** Nebraska
Program: Superfund
Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER **Site ID:** A72Z **Site OU:** 02

Location Desc: MW 10 A

External Sample Number: MW 10 A

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

Latitude: ____

Sample Collection: Start: 10/1/11

16:05

Longitude: ____

End: 1/1/

:-

Field Measurement

Parameter	Value	Units
Conductance, Specific :	<u>0.554</u>	umhos/cm
Dissolved Oxygen :	<u>5.48</u>	mg/L
Temperature :	<u>17.75</u>	Deg C
Turbidity :	<u>4.59</u>	NTU
pH :	<u>6.60</u>	SU

Laboratory Analyses:

Container	Preservative	Holding Time	Analysis
4 - 40mL VOA vial	4 Deg C, HCL to pH<2	14 Days	1 VOCs in Water by GC/MS for Low Detection Limits

Sample Comments:

(N/A)

ORP: -199.7

Sample Collected By: HGL

**CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII**

ACTIVITY LEADER(Print) <i>Zurbuchen, Brian</i>	NAME OF SURVEY OR ACTIVITY <i>Garvey Elevator BZA 72-201</i>	DATE OF COLLECTION <i>21-2</i> DAY <i>09th</i> MONTH <i>11</i> YEAR	SHEET <i>1</i> of <i>2</i>
---	---	--	-------------------------------

CONTENTS OF SHIPMENT *Groundwater samples*

SAMPLE NUMBER	TYPE OF CONTAINERS				VOA SET (2 VIALS EA)	SAMPLED MEDIA					RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	CUBITAINER	BOTTLE	BOTTLE	BOTTLE		water	soil	sediment	dust	other	
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
5511-22					1	X					
5511-22FD					1	X					
5511-2											
5511-25					1	X					
5511-26					1	X					
5511-24					1	X					
5511-27					1	X					
5511-62FB					1	X					Trip Blank
5511-28					3	X					Extra Vol MS/MSD
5511-29					1	X					
5511-30					1	X					
5511-31					1	X					
5511-63FB					1	X					Trip Blank
5511-32					1	X					
5511-33					1	X					
5511-34					1	X					
5511-35					1	X					
5511-36					1	X					
5511-37					1	X					
5511-38					1	X					
5511-38FD					1	X					
5511-39					1	X					
5511-39FD					1	X					
40											

DESCRIPTION OF SHIPMENT	MODE OF SHIPMENT
_____ PIECE(S) CONSISTING OF _____ BOX(ES) ☒ ICE CHEST(S); OTHER _____	_____ COMMERCIAL CARRIER: _____ ☐ COURIER ☒ SAMPLER CONVEYED (SHIPPING DOCUMENT NUMBER) _____

PERSONNEL CUSTODY RECORD			
RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY
☐ SEALED ☒ UNSEALED	<i>10-3-11</i>		☐ SEALED ☐ UNSEALED
REASON FOR CHANGE OF CUSTODY			
RELINQUISHED BY	DATE	TIME	RECEIVED BY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED
REASON FOR CHANGE OF CUSTODY			
RELINQUISHED BY	DATE	TIME	RECEIVED BY
☐ SEALED ☐ UNSEALED			☐ SEALED ☐ UNSEALED
REASON FOR CHANGE OF CUSTODY			

SEPTEMBER 2010

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

Date: 10/27/2010

Subject: Transmittal of Sample Analysis Results for ASR #: 5068

Project ID: BZA72Z01

Project Description: Garvey Elevator - RI/FS sampling

From: Michael F. Davis, Chief
Chemical Analysis and Response Branch, Environmental Services Division

To: Brian Zurbuchen
SUPR/IANE

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

Project Manager: Brian Zurbuchen

Org: SUPR/IANE

Phone: 913-551-7101

Project ID: BZA72Z01

QAPP Number: SDMS 40322811

Project Desc: Garvey Elevator - RI/FS sampling

Location: Hastings

State: Nebraska

Program: Superfund

Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND
GROUNDWATERSite ID: A72Z Site OU: 01
GPRA PRC: 302DD2C

Purpose: Site Characterization

Quarterly monitoring well sampling - OU #01.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of
sample for quality control purpose.Units: Specific units in which results are
reported.

___ = Field Sample

FB = Field Blank

FD = Field Duplicate

Deg C = Degrees Celsius

NTU = Nephelometric Turbidity Units

SU = Standard Units (pH)

mg/L = Milligrams per Liter

ug/L = Micrograms per Liter

umhos/cm = Micromhos per Centimeter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information
on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.

J = The identification of the analyte is acceptable; the reported value is an
estimate.

U = The analyte was not detected at or above the reporting limit.

UJ = The analyte was not detected at or above the reporting limit. The reporting
limit is an estimate.

ASR Number: 5068

Sample Information Summary

10/27/2010

Project ID: BZA72Z01

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 - ___		Water	MW-9A		09/22/2010	10:11			09/24/2010
2 - ___		Water	MW-31C		09/22/2010	12:15			09/24/2010
3 - ___		Water	MW-31A		09/22/2010	12:55			09/24/2010
4 - ___		Water	MW-30E		09/22/2010	13:53			09/24/2010
5 - ___		Water	MW-30D		09/22/2010	15:08			09/24/2010
6 - ___		Water	MW-30C		09/22/2010	16:30			09/24/2010
7 - ___		Water	MW-30A		09/22/2010	17:42			09/24/2010
7 - FD		Water	MW-30A/Field Duplicate of sample 7		09/22/2010	17:42			09/24/2010
9 - ___		Water	MW-3E		09/23/2010	09:28			09/24/2010
10 - ___		Water	MW-3B		09/23/2010	10:58			09/24/2010
10 - FD		Water	MW-3B/Field Duplicate of sample 10		09/23/2010	10:58			09/24/2010
12 - ___		Water	MW-3A		09/23/2010	12:05			09/24/2010
13 - ___		Water	MW-3D		09/23/2010	13:20			09/24/2010
14 - ___		Water	MW-5B		09/23/2010	18:41			09/28/2010
14 - FD		Water	MW-5B/Field Duplicate of sample 14		09/23/2010	18:41			09/28/2010
16 - ___		Water	MW-5A		09/24/2010	08:20			09/28/2010
17 - ___		Water	MW-5D		09/24/2010	09:22			09/28/2010
18 - ___		Water	MW-6E		09/24/2010	11:09			09/28/2010
19 - ___		Water	MW-6D		09/24/2010	12:55			09/28/2010
20 - ___		Water	MW-6A		09/24/2010	14:02			09/28/2010
20 - FD		Water	MW-6A/Field Duplicate of sample 20		09/24/2010	14:02			09/28/2010
22 - ___		Water	MW-7B		09/24/2010	15:47			09/28/2010
23 - ___		Water	MW-7A		09/24/2010	16:52			09/28/2010
24 - ___		Water	MW-13E		09/25/2010	10:50			09/28/2010
25 - ___		Water	Rinsate blank sample		09/25/2010	11:15			09/28/2010
26 - ___		Water	MW-13C		09/25/2010	12:12			09/28/2010
27 - ___		Water	MW-2A		09/25/2010	13:53			09/28/2010
28 - ___		Water	MW-8A		09/25/2010	15:24			09/28/2010
29 - ___		Water	MW-4B		09/26/2010	09:07			09/28/2010
30 - ___		Water	MW-4A		09/26/2010	10:30			09/28/2010
31 - ___		Water	MW-1A		09/26/2010	12:00			09/28/2010
32 - ___		Water	MW-20E		09/26/2010	14:23			09/28/2010
33 - ___		Water	MW-20D		09/26/2010	15:15			09/28/2010
34 - ___		Water	MW-20C		09/26/2010	15:55			09/28/2010
35 - ___		Water	MW-19C		09/27/2010	09:25			09/28/2010
36 - ___		Water	MW-20A		09/27/2010	15:57			09/28/2010
37 - ___		Water	MW-19A		09/27/2010	16:51			09/28/2010
40 - FB		Water	LDL VOA Trip Blank sample 1		09/23/2010	13:53			09/24/2010
41 - FB		Water	LDL VOA Trip Blank sample 2		09/23/2010	14:00			09/28/2010

US EPA ARCHIVE DOCUMENT

Analysis **Comments About Results For This Analysis**

1 **Conductivity by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 7-FD 9-___ 10-___ 10-FD 12-___ 13-___ 14-___
 14-FD 16-___ 17-___ 18-___ 19-___ 20-___ 20-FD
 22-___ 23-___ 24-___ 26-___ 27-___ 28-___ 29-___
 30-___ 31-___ 32-___ 33-___ 34-___ 35-___ 36-___
 37-___

Comments:

(N/A)

1 **pH of Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 7-FD 9-___ 10-___ 10-FD 12-___ 13-___ 14-___
 14-FD 16-___ 17-___ 18-___ 19-___ 20-___ 20-FD
 22-___ 23-___ 24-___ 26-___ 27-___ 28-___ 29-___
 30-___ 31-___ 32-___ 33-___ 34-___ 35-___ 36-___
 37-___

Comments:

(N/A)

1 **Temperature of Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 7-FD 9-___ 10-___ 10-FD 12-___ 13-___ 14-___
 14-FD 16-___ 17-___ 18-___ 19-___ 20-___ 20-FD
 22-___ 23-___ 24-___ 26-___ 27-___ 28-___ 29-___
 30-___ 31-___ 32-___ 33-___ 34-___ 35-___ 36-___
 37-___

Comments:

(N/A)

1 **Total Dissolved Oxygen in Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___

Analysis Comments About Results For This Analysis

Samples: 7-FD 9-__ 10-__ 10-FD 12-__ 13-__ 14-__
 14-FD 16-__ 17-__ 18-__ 19-__ 20-__ 20-FD
 22-__ 23-__ 24-__ 26-__ 27-__ 28-__ 29-__
 30-__ 31-__ 32-__ 33-__ 34-__ 35-__ 36-__
 37-__

Comments:
 (N/A)

1 Turbidity of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
 7-FD 9-__ 10-__ 10-FD 12-__ 13-__ 14-__
 14-FD 16-__ 17-__ 18-__ 19-__ 20-__ 20-FD
 22-__ 23-__ 24-__ 26-__ 27-__ 28-__ 29-__
 30-__ 31-__ 32-__ 33-__ 34-__ 35-__ 36-__
 37-__

Comments:
 (N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Region 7 ESAT Contract Lab (In-House)

Method: EPA Region 7 RLAB Method 3230.13D

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
 7-FD 9-__ 10-__ 10-FD 12-__ 13-__ 14-__
 14-FD 16-__ 17-__ 18-__ 19-__ 20-__ 20-FD
 22-__ 23-__ 24-__ 25-__ 26-__ 27-__ 28-__
 29-__ 30-__ 31-__ 32-__ 33-__ 34-__ 35-__
 36-__ 37-__ 40-FB 41-FB

Comments:

100927: Methyl-tert-butyl Ether (21.6%), Bromodichloromethane (20.9%), cis-1,3-Dichloropropene (20.1%), trans-1,3-Dichloropropene (24.3%), Bromoform (22.9%) and 1,2-Dibromo-3-Chloropropane (29.2%) were UJ-coded in samples 1, 2, 3, 4, 5, 6, 7, 7-FD, 9, 10 and 10-FD. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for these analytes may be higher than the reported value.

100929: Acetone (-30.7%) was J-coded in sample 25. Although the analytes in question have been positively identified in the sample, the quantitation is an estimate (J-coded) due to the continuing calibration check not meeting accuracy specifications. The actual concentration for these analytes may be lower than the reported value.

Analysis	Comments About Results For This Analysis
----------	--

Trans-1,3-Dichloropropene (21.7%) was UJ-coded in samples 14, 14-FD, 16, 17, 18, 19, 20, 20-FD, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33 and 34 . This analyte was not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for this analyte may be higher than the reported value.

100930: Methyl-tert-butyl Ether (20.2%), Bromoform (20.8%) and 1,2-Dibromo-3-Chloropropane (25.0%) were UJ-coded in samples 12, 30, 31, 35, 36, 37, 40-FB and 41-FB. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for these analytes may be higher than the reported value.

969-LCS: Methyl-tert-butyl Ether (78%, 82-121%), Bromodichloromethane (79%, 85-123%), cis-1,3-Dichloropropene (80%, 81-122%), 1,1,2-Trichloroethane (81%, 86-117%), Dibromochloromethane (80%, 85-120%), 1,2-Dibromoethane (81%, 85-118%), Bromoform (76%, 78-123%) and 1,2-Dibromo-3-Chloropropane (70%, 71-123%) were UJ-coded in samples 1, 2, 3, 4, 5, 6, 7, 7-FD, 9, 10 and 10-FD. Chloroform (83%, 88-118%) was UJ-coded in samples 1, 2, 9, 10 and 10-FD. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of these analytes in the laboratory control sample. The actual reporting limit for these analytes may be higher than the reported value.

Chloroform was J-coded in samples 3, 4, 5, 6, 7 and 7-FD. Although the analyte in question has been positively identified in the samples, the quantitation is an estimate (J-coded) due to low recovery of this analyte in the laboratory control sample. The actual concentration for this analyte may be higher than the reported value.

970-LCS: Methyl-tert-butyl Ether (81%, 82-121%) and Bromodichloromethane (84%, 85-123%) were UJ-coded in samples 14, 14-FD, 16, 17, 18, 19, 20, 20-FD, 22, 23, 24, 25, 26, 27, 28, 29, 32, 33 and 34. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of these analytes in the laboratory control sample. The actual reporting limit for these analytes may be higher than the reported value.

971-LCS: Methyl-tert-butyl Ether (80%, 82-121%), Bromodichloromethane (81%, 85-123%) and 1,1,2-Trichloroethane (82%, 86-117%) were UJ-coded in samples 12, 30, 31, 35, 36, 37, 40-FB and 41-FB. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to low recovery of these analytes in the laboratory control sample. The actual reporting limit for these analytes may be higher than the reported value.

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.946	0.372	0.898	0.699
1 pH of Water by Field Measurement					
pH	SU	8.11	7.26	6.91	7.78
1 Temperature of Water by Field Measurement					
Temperature	Deg C	16.50	20.92	21.25	19.50
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	0.33	4.62	0.57	10.13
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.1	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.2	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	12	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 UJ	1.0 UJ	20 J	4.0 J
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	5-__	6-__	7-__	7-FD
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.743	0.715	0.811	0.811
1 pH of Water by Field Measurement					
pH	SU	6.78	8.16	7.24	7.24
1 Temperature of Water by Field Measurement					
Temperature	Deg C	17.01	18.79	17.18	17.18
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	2.50	10.12	4.40	4.40
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	5.4	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	2.2	1.0 U	2.3	2.7
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	290	280
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	10 J	1.1 J	8.4 J	9.5 J
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.6	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	5-__	6-__	7-__	7-FD
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	9-__	10-__	10-FD	12-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.563	0.967	0.967	0.932
1 pH of Water by Field Measurement					
pH	SU	7.75	7.09	7.09	7.15
1 Temperature of Water by Field Measurement					
Temperature	Deg C	13.40	11.26	11.26	13.95
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	3.89	8.63	8.63	5.29
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	570	5.0 U	5.0 U	6.1
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	180	180	3.9
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
1,2-Dibromoethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	9-__	10-__	10-FD	12-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	13-__	14-__	14-FD	16-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.767	0.906	0.906	0.879
1 pH of Water by Field Measurement					
pH	SU	7.23	7.29	7.29	7.19
1 Temperature of Water by Field Measurement					
Temperature	Deg C	12.59	11.54	11.54	9.92
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.10	4.09	4.09	5.49
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	96	96	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	12	13	9.8
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	13-__	14-__	14-FD	16-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.611	0.332	0.518	0.841
1 pH of Water by Field Measurement					
pH	SU	7.25	7.39	7.28	7.16
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.60	12.06	14.79	13.47
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.57	2.61	5.39	2.87
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	41
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	20-FD	22-__	23-__	24-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.841	0.650	0.745	0.584
1 pH of Water by Field Measurement					
pH	SU	7.16	6.94	7.13	7.42
1 Temperature of Water by Field Measurement					
Temperature	Deg C	13.47	20.99	13.93	13.75
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	2.87	4.28	2.25	13.02
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	42	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	20-FD	22-__	23-__	24-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm		0.693	0.734	1.32
1 pH of Water by Field Measurement					
pH	SU		7.51	6.84	7.37
1 Temperature of Water by Field Measurement					
Temperature	Deg C		11.49	12.02	13.73
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L		15.59	7.14	5.42
1 Turbidity of Water by Field Measurement					
Turbidity	NTU		0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	14 J	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	220	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.1	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	15	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	29-__	30-__	31-__	32-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.936	0.943	0.848	0.571
1 pH of Water by Field Measurement					
pH	SU	7.09	7.41	7.11	7.85
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.27	10.45	10.60	11.54
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	9.60	3.00	4.91	6.42
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	2.0	22.2	0.2	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromoform	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	940	4.3	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.3	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 UJ	5.0 UJ	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 UJ
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	29-__	30-__	31-__	32-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.639	0.680	0.799	0.816
1 pH of Water by Field Measurement					
pH	SU	6.96	7.26	6.99	7.23
1 Temperature of Water by Field Measurement					
Temperature	Deg C	11.69	11.74	9.55	16.20
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	0.01	6.88	3.18	0.35
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	2.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromoform	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.6
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	37-__	40-FB	41-FB
1 Conductivity by Field Measurement				
Conductivity	umhos/cm	1.06		
1 pH of Water by Field Measurement				
pH	SU	7.25		
1 Temperature of Water by Field Measurement				
Temperature	Deg C	19.50		
1 Total Dissolved Oxygen in Water by Field Measurement				
Dissolved Oxygen	mg/L	5.57		
1 Turbidity of Water by Field Measurement				
Turbidity	NTU	0.0		
1 VOCs in Water by GC/MS for Low Detection Limits				
Acetone	ug/L	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	65	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	2.2	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U

ASR Number: 5068
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/27/2010

Analysis/ Analyte	Units	37-__	40-FB	41-FB
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ
Trichloroethene	ug/L	4.2	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U

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

Date: __/__/____

Subject: Data Disposition/Sample Release for ASR #: 5068

Project ID: BZA72Z01

Project Description: Garvey Elevator - RI/FS sampling

From: Brian Zurbuchen
SUPR/IANE

To: Kaye Dollmann
ENSV/CARB

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes for Data Disposition.

I understand all samples will be disposed upon receipt of this form, unless samples are requested to be held. If I do not return this form all samples will be disposed of on _____.

- ☐ "RELEASED" - Read-only to all Region 7 employees and contractors that have R7LIMS "Customer" account. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Project Manager Accessible" - Available on the LAN in R7LIMS for my use only. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Archived" - THIS DATA IS OF A SENSITIVE NATURE. Any future reports must be requested through the laboratory. All samples may be disposed of upon receipt of the form if not requested to be held.

-
- ☐ Hold Samples - I have determined that the samples need to be held until _____, after which time they will be disposed of in accordance with applicable regulations.
The reason for the hold is:

☐ Samples are associated with a legal proceeding.

☐ Question/Concern with data - possible reanalysis requested.

☐ Other: _____

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

Date: 10/25/2010

Subject: Transmittal of Sample Analysis Results for ASR #: 5067

Project ID: BZA72Z02

Project Description: Garvey Elevator - RI/FS sampling

From: Michael F. Davis, Chief
Chemical Analysis and Response Branch, Environmental Services Division

To: Brian Zurbuchen
SUPR/IANE

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

Project Manager: Brian Zurbuchen

Org: SUPR/IANE

Phone: 913-551-7101

Project ID: BZA72Z02

QAPP Number: SDMS 40322811

Project Desc: Garvey Elevator - RI/FS sampling

Location: Hastings

State: Nebraska

Program: Superfund

Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER

Site ID: A72Z Site OU: 02

Purpose: Site Characterization

GPRA PRC: 302DD2C

Quarterly monitoring well sampling - OU #02.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

Units: Specific units in which results are reported.

___ = Field Sample

FB = Field Blank

FD = Field Duplicate

Deg C = Degrees Celsius

NTU = Nephelometric Turbidity Units

SU = Standard Units (pH)

mg/L = Milligrams per Liter

ug/L = Micrograms per Liter

umhos/cm = Micromhos per Centimeter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.

U = The analyte was not detected at or above the reporting limit.

ASR Number: 5067

Sample Information Summary

10/25/2010

Project ID: BZA72Z02

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 - __		Water	MW-17D		09/22/2010	10:40			09/24/2010
4 - __		Water	MW-17C		09/22/2010	12:00			09/24/2010
5 - __		Water	MW-17A		09/22/2010	13:27			09/24/2010
6 - __		Water	MW-18D		09/22/2010	15:28			09/24/2010
7 - __		Water	MW-18A		09/22/2010	16:30			09/24/2010
8 - __		Water	MW-18C		09/22/2010	17:21			09/24/2010
9 - __		Water	MW-12C		09/23/2010	09:10			09/24/2010
10 - __		Water	MW-12A		09/23/2010	10:49			09/24/2010
11 - __		Water	MW-12D		09/23/2010	11:50			09/24/2010
11 - FD		Water	MW-12D/Field Duplicate of sample 11		09/23/2010	11:50			09/24/2010
13 - __		Water	MW-104D		09/23/2010	13:47			09/24/2010
14 - __		Water	MW-104C		09/23/2010	14:41			09/24/2010
15 - __		Water	MW-104A		09/23/2010	15:34			09/24/2010
16 - __		Water	MW-42E		09/24/2010	09:02			09/28/2010
17 - __		Water	MW-42D		09/24/2010	12:09			09/28/2010
18 - __		Water	MW-43E		09/24/2010	14:14			09/28/2010
19 - __		Water	MW-43D		09/24/2010	15:16			09/28/2010
20 - __		Water	MW-46D2		09/24/2010	17:19			09/28/2010
20 - FD		Water	MW-46D2/Field Duplicate of sample 20		09/24/2010	17:19			09/28/2010
22 - __		Water	MW-46D1		09/25/2010	10:29			09/28/2010
23 - __		Water	MW-106D		09/25/2010	11:51			09/28/2010
24 - __		Water	MW-106C		09/25/2010	13:05			09/28/2010
25 - __		Water	MW-106A		09/25/2010	14:10			09/28/2010
26 - __		Water	MW-11A		09/25/2010	16:03			09/28/2010
27 - __		Water	MW-44D		09/26/2010	09:05			09/28/2010
28 - __		Water	MW-44E		09/26/2010	10:56			09/28/2010
29 - __		Water	MW-41D1		09/26/2010	12:45			09/28/2010
30 - __		Water	MW-41D2		09/26/2010	13:45			09/28/2010
31 - __		Water	MW-105D		09/26/2010	16:05			09/28/2010
32 - __		Water	MW-105C		09/26/2010	17:18			09/28/2010
32 - FD		Water	MW-105C/Field Duplicate of sample 32		09/26/2010	17:18			09/28/2010
34 - __		Water	MW-105A		09/27/2010	11:13			09/28/2010
35 - __		Water	MW-10B		09/27/2010	12:31			09/28/2010
36 - __		Water	MW-10A		09/27/2010	14:46			09/28/2010
37 - __		Water	MW-16C		09/27/2010	09:08			09/28/2010
38 - __		Water	MW-16A		09/27/2010	11:24			09/28/2010
39 - __		Water	MW-45C		09/27/2010	12:27			09/28/2010
39 - FD		Water	MW-45C/Field Duplicate of sample 39		09/27/2010	12:27			09/28/2010
41 - __		Water	MW-45D		09/27/2010	13:21			09/28/2010
42 - __		Water	MW-14A		09/27/2010	14:30			09/28/2010
43 - FB		Water	LDL VOA Trip Blank sample 1		09/22/2010	10:00			09/24/2010
44 - FB		Water	LDL VOA Trip Blank sample		09/26/2010	13:30			09/28/2010

US EPA ARCHIVE DOCUMENT

ASR Number: 5067

Sample Information Summary

10/25/2010

Project ID: BZA72Z02

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
45 - FB		Water	LDL VOA Trip Blank sample		09/24/2010	10:40			09/28/2010

Analysis **Comments About Results For This Analysis**

1 **Conductivity by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:	1-__	4-__	5-__	6-__	7-__	8-__	9-__
	10-__	11-__	11-FD	13-__	14-__	15-__	16-__
	17-__	18-__	19-__	20-__	20-FD	22-__	23-__
	24-__	25-__	26-__	27-__	28-__	29-__	30-__
	31-__	32-__	32-FD	34-__	35-__	36-__	37-__
	38-__	39-__	39-FD	41-__	42-__		

Comments:

(N/A)

1 **pH of Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:	1-__	4-__	5-__	6-__	7-__	8-__	9-__
	10-__	11-__	11-FD	13-__	14-__	15-__	16-__
	17-__	18-__	19-__	20-__	20-FD	22-__	23-__
	24-__	25-__	26-__	27-__	28-__	29-__	30-__
	31-__	32-__	32-FD	34-__	35-__	36-__	37-__
	38-__	39-__	39-FD	41-__	42-__		

Comments:

(N/A)

1 **Temperature of Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:	1-__	4-__	5-__	6-__	7-__	8-__	9-__
	10-__	11-__	11-FD	13-__	14-__	15-__	16-__
	17-__	18-__	19-__	20-__	20-FD	22-__	23-__
	24-__	25-__	26-__	27-__	28-__	29-__	30-__
	31-__	32-__	32-FD	34-__	35-__	36-__	37-__
	38-__	39-__	39-FD	41-__	42-__		

Comments:

(N/A)

1 **Total Dissolved Oxygen in Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:	1-__	4-__	5-__	6-__	7-__	8-__	9-__
----------	------	------	------	------	------	------	------

Analysis	Comments About Results For This Analysis
----------	--

Samples:	10-__	11-__	11-FD	13-__	14-__	15-__	16-__
	17-__	18-__	19-__	20-__	20-FD	22-__	23-__
	24-__	25-__	26-__	27-__	28-__	29-__	30-__
	31-__	32-__	32-FD	34-__	35-__	36-__	37-__
	38-__	39-__	39-FD	41-__	42-__		

Comments:
(N/A)

1 Turbidity of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:	1-__	4-__	5-__	6-__	7-__	8-__	9-__
	10-__	11-__	11-FD	13-__	14-__	15-__	16-__
	17-__	18-__	19-__	20-__	20-FD	22-__	23-__
	24-__	25-__	26-__	27-__	28-__	29-__	30-__
	31-__	32-__	32-FD	34-__	35-__	36-__	37-__
	38-__	39-__	39-FD	41-__	42-__		

Comments:
(N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples:	1-__	4-__	5-__	6-__	7-__	8-__	9-__
	10-__	11-__	11-FD	13-__	14-__	15-__	16-__
	17-__	18-__	19-__	20-__	20-FD	22-__	23-__
	24-__	25-__	26-__	27-__	28-__	29-__	30-__
	31-__	32-__	32-FD	34-__	35-__	36-__	37-__
	38-__	39-__	39-FD	41-__	42-__	43-FB	44-FB
	45-FB						

Comments:

Analysis/ Analyte	Units	1-__	4-__	5-__	6-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.251	0.566	0.705	0.433
1 pH of Water by Field Measurement					
pH	SU	7.20	6.96	6.93	7.04
1 Temperature of Water by Field Measurement					
Temperature	Deg C	22.50	22.15	19.56	27.55
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	3.04	4.35	5.02	3.44
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	54.0	5.1	2.0	11.5
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	25	0.50 U	9.0
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5067
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/25/2010

Analysis/ Analyte	Units	1-__	4-__	5-__	6-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	7-__	8-__	9-__	10-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.381	0.572	0.586	0.844
1 pH of Water by Field Measurement					
pH	SU	6.32	6.89	6.61	6.87
1 Temperature of Water by Field Measurement					
Temperature	Deg C	23.86	30.98	20.92	22.07
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.51	2.19	4.23	4.93
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	4.0	3.6	4.1	5.1
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	3.5	11	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.66	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5067
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/25/2010

Analysis/ Analyte	Units	7-__	8-__	9-__	10-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	11-__	11-FD	13-__	14-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.409	0.409	0.286	0.346
1 pH of Water by Field Measurement					
pH	SU	6.95	6.95	7.13	7.08
1 Temperature of Water by Field Measurement					
Temperature	Deg C	20.80	20.80	20.32	25.04
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	3.90	3.90	3.44	4.62
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	22.2	22.2	0.4	0.8
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.85	0.92	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5067
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/25/2010

Analysis/ Analyte	Units	11-__	11-FD	13-__	14-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	4.1
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	15-__	16-__	17-__	18-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.894	0.383	0.451	0.352
1 pH of Water by Field Measurement					
pH	SU	6.70	6.89	6.84	8.45
1 Temperature of Water by Field Measurement					
Temperature	Deg C	18.36	15.70	20.81	30.38
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.56	8.89	6.85	7.83
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	14.3	37.9	5.6
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	34	10	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5067
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/25/2010

Analysis/ Analyte	Units	15-__	16-__	17-__	18-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	19-__	20-__	20-FD	22-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.341	0.423	0.423	0.732
1 pH of Water by Field Measurement					
pH	SU	8.22	7.00	7.00	8.78
1 Temperature of Water by Field Measurement					
Temperature	Deg C	31.39	29.71	29.71	21.70
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.36	6.02	6.02	7.21
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	8.8	30.8	30.8	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	65	59	110
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	4.0
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5067
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/25/2010

Analysis/ Analyte	Units	19-__	20-__	20-FD	22-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	23-__	24-__	25-__	26-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.283	0.433	0.620	0.441
1 pH of Water by Field Measurement					
pH	SU	8.73	6.84	7.13	8.17
1 Temperature of Water by Field Measurement					
Temperature	Deg C	24.12	19.40	19.19	24.89
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.24	5.08	5.60	3.86
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	1.3	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5067
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/25/2010

Analysis/ Analyte	Units	23-__	24-__	25-__	26-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	27-__	28-__	29-__	30-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.342	0.286	0.737	0.312
1 pH of Water by Field Measurement					
pH	SU	6.17	7.17	7.99	8.45
1 Temperature of Water by Field Measurement					
Temperature	Deg C	16.06	17.22	22.58	24.24
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	3.62	2.93	4.06	4.99
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	47.4	7.4	6.2	27.4
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	4.6	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5067
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/25/2010

Analysis/ Analyte	Units	27-__	28-__	29-__	30-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	31-__	32-__	32-FD	34-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.345	0.566	0.566	0.915
1 pH of Water by Field Measurement					
pH	SU	7.17	6.59	6.59	7.15
1 Temperature of Water by Field Measurement					
Temperature	Deg C	25.29	20.14	20.14	12.84
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	3.82	4.29	4.29	5.42
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	7.8
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	86	90	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.70	0.81	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5067
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/25/2010

Analysis/ Analyte	Units	31-__	32-__	32-FD	34-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	35-__	36-__	37-__	38-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.856	0.973	0.651	0.753
1 pH of Water by Field Measurement					
pH	SU	7.18	7.17	7.22	6.77
1 Temperature of Water by Field Measurement					
Temperature	Deg C	11.08	12.47	18.27	19.74
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.75	8.29	5.82	4.50
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5067
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/25/2010

Analysis/ Analyte	Units	35-__	36-__	37-__	38-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	39-__	39-FD	41-__	42-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.461	0.461	0.393	0.598
1 pH of Water by Field Measurement					
pH	SU	7.46	7.46	7.87	6.86
1 Temperature of Water by Field Measurement					
Temperature	Deg C	23.52	23.52	24.55	29.19
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.92	4.92	5.86	4.38
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	24.5	24.5	43.6	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5067
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/25/2010

Analysis/ Analyte	Units	39-__	39-FD	41-__	42-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	43-FB	44-FB	45-FB
1 VOCs in Water by GC/MS for Low Detection Limits				
Acetone	ug/L	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U

ASR Number: 5067
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

10/25/2010

Analysis/ Analyte	Units	43-FB	44-FB	45-FB
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U

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

Date: __/__/____

Subject: Data Disposition/Sample Release for ASR #: 5067

Project ID: BZA72Z02

Project Description: Garvey Elevator - RI/FS sampling

From: Brian Zurbuchen
SUPR/IANE

To: Kaye Dollmann
ENSV/CARB

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes for Data Disposition.

I understand all samples will be disposed upon receipt of this form, unless samples are requested to be held. If I do not return this form all samples will be disposed of on _____.

- ☐ "RELEASED" - Read-only to all Region 7 employees and contractors that have R7LIMS "Customer" account. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Project Manager Accessible" - Available on the LAN in R7LIMS for my use only. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Archived" - THIS DATA IS OF A SENSITIVE NATURE. Any future reports must be requested through the laboratory. All samples may be disposed of upon receipt of the form if not requested to be held.

-
- ☐ Hold Samples - I have determined that the samples need to be held until _____, after which time they will be disposed of in accordance with applicable regulations.
The reason for the hold is:

☐ Samples are associated with a legal proceeding.

☐ Question/Concern with data - possible reanalysis requested.

☐ Other: _____

DECEMBER 2010

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

Date: 01/12/2011

Subject: Transmittal of Sample Analysis Results for ASR #: 5188

Project ID: BZA72Z01

Project Description: Garvey Elevator - RI/FS sampling

From: Michael F. Davis, Chief
Chemical Analysis and Response Branch, Environmental Services Division

To: Brian Zurbuchen
SUPR/IANE

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

Project Manager: Brian Zurbuchen

Org: SUPR/IANE

Phone: 913-551-7101

Project ID: BZA72Z01

QAPP Number: SDMS 40322811

Project Desc: Garvey Elevator - RI/FS sampling

Location: Hastings

State: Nebraska

Program: Superfund

Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND
GROUNDWATERSite ID: A72Z Site OU: 01
GPRA PRC: 302DD2C

Purpose: Site Characterization

Quarterly monitoring well sampling - OU #01.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of
sample for quality control purpose.Units: Specific units in which results are
reported.

___ = Field Sample

FB = Field Blank

FD = Field Duplicate

Deg C = Degrees Celsius

NTU = Nephelometric Turbidity Units

SU = Standard Units (pH)

mg/L = Milligrams per Liter

ug/L = Micrograms per Liter

umhos/cm = Micromhos per Centimeter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information
on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.

J = The identification of the analyte is acceptable; the reported value is an
estimate.

U = The analyte was not detected at or above the reporting limit.

UJ = The analyte was not detected at or above the reporting limit. The reporting
limit is an estimate.

ASR Number: 5188

Sample Information Summary

01/12/2011

Project ID: BZA72Z01

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 - ___		Water	MW-31C		12/14/2010	11:15			12/17/2010
2 - ___		Water	MW-31A		12/14/2010	12:25			12/17/2010
3 - ___		Water	MW-30E		12/14/2010	13:24			12/17/2010
4 - ___		Water	MW-30D		12/14/2010	14:10			12/17/2010
5 - ___		Water	MW-30C		12/14/2010	15:05			12/17/2010
6 - ___		Water	MW-30A		12/14/2010	15:50			12/17/2010
7 - ___		Water	MW-19C		12/14/2010	16:48			12/17/2010
8 - ___		Water	MW-20E		12/15/2010	09:35			12/17/2010
9 - ___		Water	MW-1A		12/15/2010	12:22			12/17/2010
10 - ___		Water	MW-9A		12/15/2010	13:44			12/17/2010
11 - ___		Water	MW-8A		12/15/2010	15:05			12/17/2010
12 - ___		Water	MW-2A		12/15/2010	16:27			12/17/2010
13 - ___		Water	MW-7B		12/16/2010	10:25			12/17/2010
14 - ___		Water	MW-7A		12/16/2010	11:10			12/17/2010
15 - ___		Water	MW-20C		12/16/2010	12:29			12/17/2010
16 - ___		Water	MW-20D		12/16/2010	13:10			12/17/2010
16 - FD		Water	MW-20D/Field Duplicate of sample 16		12/16/2010	13:10			12/17/2010
18 - ___		Water	MW-20A		12/16/2010	14:00			12/17/2010
19 - ___		Water	MW-19A		12/16/2010	14:55			12/17/2010
20 - ___		Water	MW-5D		12/17/2010	09:00			12/21/2010
21 - ___		Water	MW-5B		12/17/2010	10:20			12/21/2010
21 - FD		Water	MW-5B/Field Duplicate of sample 21		12/17/2010	10:20			12/21/2010
23 - ___		Water	MW-5A		12/17/2010	11:30			12/21/2010
24 - ___		Water	MW-6E		12/17/2010				12/21/2010
25 - ___		Water	MW-6D		12/17/2010	14:40			12/21/2010
26 - ___		Water	MW-6A		12/17/2010	15:52			12/21/2010
27 - ___		Water	MW-3E		12/18/2010	10:10			12/21/2010
28 - ___		Water	MW-3B		12/18/2010	11:40			12/21/2010
29 - ___		Water	MW-3A		12/18/2010	12:49			12/21/2010
30 - ___		Water	MW-3D		12/18/2010	14:30			12/21/2010
31 - ___		Water	Rolls Old Well		12/18/2010	15:38			12/21/2010
32 - ___		Water	Rolls New Well		12/18/2010	15:45			12/21/2010
33 - ___		Water	MW-4B		12/19/2010	08:45			12/21/2010
33 - FD		Water	MW-4B/Field Duplicate of sample 33		12/19/2010	08:45			12/21/2010
35 - ___		Water	MW-4A		12/19/2010	10:00			12/21/2010
36 - ___		Water	MW-13E		12/19/2010	11:35			12/21/2010
37 - ___		Water	MW-13C		12/19/2010	12:55			12/21/2010
37 - FD		Water	MW-13C/Field Duplicate of sample 37		12/19/2010	12:55			12/21/2010
43 - FB		Water	LDL VOA Trip Blank sample		12/16/2010	08:45			12/17/2010
44 - FB		Water	LDL VOA Trip Blank sample		12/19/2010	14:50			12/21/2010
45 - FB		Water	LDL VOA Trip Blank sample		12/19/2010				12/21/2010

Analysis **Comments About Results For This Analysis**

1 **Conductivity by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 8-___ 9-___ 10-___ 11-___ 12-___ 13-___ 14-___
 15-___ 16-___ 16-FD 18-___ 19-___ 20-___ 21-___
 21-FD 23-___ 24-___ 25-___ 26-___ 27-___ 28-___
 29-___ 30-___ 33-___ 33-FD 35-___ 36-___ 37-___
 37-FD

Comments:

(N/A)

1 **pH of Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 8-___ 9-___ 10-___ 11-___ 12-___ 13-___ 14-___
 15-___ 16-___ 16-FD 18-___ 19-___ 20-___ 21-___
 21-FD 23-___ 24-___ 25-___ 26-___ 27-___ 28-___
 29-___ 30-___ 33-___ 33-FD 35-___ 36-___ 37-___
 37-FD

Comments:

(N/A)

1 **Temperature of Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 8-___ 9-___ 10-___ 11-___ 12-___ 13-___ 14-___
 15-___ 16-___ 16-FD 18-___ 19-___ 20-___ 21-___
 21-FD 23-___ 24-___ 25-___ 26-___ 27-___ 28-___
 29-___ 30-___ 33-___ 33-FD 35-___ 36-___ 37-___
 37-FD

Comments:

(N/A)

1 **Total Dissolved Oxygen in Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___

Analysis Comments About Results For This Analysis

Samples: 8-___ 9-___ 10-___ 11-___ 12-___ 13-___ 14-___
 15-___ 16-___ 16-FD 18-___ 19-___ 20-___ 21-___
 21-FD 23-___ 24-___ 25-___ 26-___ 27-___ 28-___
 29-___ 30-___ 33-___ 33-FD 35-___ 36-___ 37-___
 37-FD

Comments:
 (N/A)

1 Turbidity of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 8-___ 9-___ 10-___ 11-___ 12-___ 13-___ 14-___
 15-___ 16-___ 16-FD 18-___ 19-___ 20-___ 21-___
 21-FD 23-___ 24-___ 25-___ 26-___ 27-___ 28-___
 29-___ 30-___ 33-___ 33-FD 35-___ 36-___ 37-___
 37-FD

Comments:
 (N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 8-___ 9-___ 10-___ 11-___ 12-___ 13-___ 14-___
 15-___ 16-___ 16-FD 18-___ 19-___ 20-___ 21-___
 21-FD 23-___ 24-___ 25-___ 26-___ 27-___ 28-___
 29-___ 30-___ 31-___ 32-___ 33-___ 33-FD 35-___
 36-___ 37-___ 37-FD 43-FB 44-FB 45-FB

Comments:

Dilutions were necessary due to high levels of carbon tetrachloride in samples -6, -28, -33 and -33FD for this analysis. This increased the reporting limits by a factor of 2.5 times for sample -6; by a factor of 2 times for sample -28; and by a factor of 7.7 times for samples -33 and -33FD.

The %D for bromomethane (-68.8% vs. $\pm 50\%$) was below control limits on the closing CC of 12/28/10. Bromomethane was UJ-coded in samples -1, -3, -4, -5, -7, -8, -9, -10, -12, -13, -14, -15, -16, -16FD, -18 and -43FB. This analyte was not found in the samples at or above the reporting limits; however, the reporting limits are an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limits for this analyte may be higher than the reported values.

A high recovery was reported for chloroform-d (control limits = 78% - 121%) in sample

Analysis	Comments About Results For This Analysis
----------	--

and -37 (128%). Chloroform was J-coded in sample -37. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to high recovery of a surrogate analyte in this sample. The actual concentration for this analyte may be lower than the reported value.

Slight acetone and carbon disulfide contamination was found in the laboratory method blanks at levels below the CRQL. Only samples containing these analytes at levels greater than ten times the contamination level of the method blank are reported without being qualified. Acetone and carbon disulfide were U-coded in sample -4.

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.710	0.958	0.696	0.764
1 pH of Water by Field Measurement					
pH	SU	6.89	6.91	7.65	6.63
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.18	9.43	10.10	10.36
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.45	0.00	9.91	0.00
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	1.6	6.1	1.7	13.7
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.6 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 UJ	0.50 U	0.50 UJ	0.50 UJ
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	20
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.80 U
Carbon Tetrachloride	ug/L	0.50 U	16	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	22	3.6	5.8
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	7.3	0.50 U	5.1
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	3.8
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.714	0.734	0.753	0.621
1 pH of Water by Field Measurement					
pH	SU	8.03	7.50	7.28	7.48
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.47	10.43	9.60	6.77
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	11.94	0.00	0.00	4.07
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.7	2.9	1.5	1.4
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	13 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 UJ	1.3 U	0.50 UJ	0.50 UJ
2-Butanone	ug/L	5.0 U	13 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	1.2 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	390	0.94	0.50 U
Chlorobenzene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Chloroform	ug/L	1.4	5.8	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	13 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	1.2 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
Methylene Chloride	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	13 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	1.2 U	0.50 U	0.60
1,2,3-Trichlorobenzene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	1.3 U	0.50 U	0.50 U

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.818	0.931	1.37	0.753
1 pH of Water by Field Measurement					
pH	SU	7.11	7.38	7.30	6.89
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.38	10.19	11.23	10.40
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.21	4.55	3.48	3.22
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	9.6	1.2	1.2	0.9
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 UJ	0.50 UJ	0.50 U	0.50 UJ
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	1.2	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.883	0.850	0.690	0.649
1 pH of Water by Field Measurement					
pH	SU	7.06	7.20	7.35	6.91
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.39	10.66	10.12	10.04
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.59	2.87	4.62	0.00
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.8	1.6	2.1	14.5
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	6.9
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	3.9
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.67
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	16-FD	18-__	19-__	20-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.649	0.832	1.08	0.596
1 pH of Water by Field Measurement					
pH	SU	6.91	8.43	7.47	7.02
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.04	9.99	9.45	9.02
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	0.00	0.00	4.21	7.17
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	14.5	6.3	2.2	4.3
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U
2-Butanone	ug/L	6.4	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	58	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	2.5	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	3.9	1.8	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	16-FD	18-__	19-__	20-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.67	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	4.2	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	21-__	21-FD	23-__	24-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.919	0.919	0.866	0.347
1 pH of Water by Field Measurement					
pH	SU	7.15	7.15	7.30	7.56
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.08	10.08	8.68	9.01
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.23	5.23	5.82	7.72
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	8.9	8.9	8.2	10.2
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	33	30	11	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	21-__	21-FD	23-__	24-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.563	0.911	0.723	0.923
1 pH of Water by Field Measurement					
pH	SU	7.36	7.14	7.88	7.18
1 Temperature of Water by Field Measurement					
Temperature	Deg C	8.92	9.98	9.18	10.55
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.96	5.09	7.54	7.72
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	13.8	17.4	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	1500	10 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	10 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Carbon Tetrachloride	ug/L	0.50 U	19	0.50 U	350
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	1.1
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	10 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	10 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	1.0 U

Analysis/ Analyte	Units	29-__	30-__	31-__	32-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.937	0.704		
1 pH of Water by Field Measurement					
pH	SU	7.28	7.29		
1 Temperature of Water by Field Measurement					
Temperature	Deg C	8.19	10.67		
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.29	2.82		
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0		
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	1.6	0.50 U	36	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	29-__	30-__	31-__	32-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	33-__	33-FD	35-__	36-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.926	0.926	0.930	0.613
1 pH of Water by Field Measurement					
pH	SU	6.83	6.83	7.09	7.43
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.89	10.89	9.27	9.17
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.95	8.95	6.62	11.64
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	39 U	39 U	5.0 U	5.0 U
Benzene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Bromochloromethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Bromoform	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Bromomethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
2-Butanone	ug/L	39 U	39 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	1300	1300	6.8	0.50 U
Chlorobenzene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Chloroethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Chloroform	ug/L	3.8 U	3.8 U	0.62	0.50 U
Chloromethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Cyclohexane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
2-Hexanone	ug/L	39 U	39 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Methyl Acetate	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	3.8 U	3.8 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	33-__	33-FD	35-__	36-__
Methylene Chloride	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	39 U	39 U	5.0 U	5.0 U
Styrene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Toluene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Trichloroethene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U
o-Xylene	ug/L	3.9 U	3.9 U	0.50 U	0.50 U

Analysis/ Analyte	Units	37-__	37-FD	43-FB	44-FB
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.644	0.644		
1 pH of Water by Field Measurement					
pH	SU	7.36	7.36		
1 Temperature of Water by Field Measurement					
Temperature	Deg C	8.85	8.85		
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	9.44	9.44		
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0		
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 UJ	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	160	150	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.94 J	0.85	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	37-__	37-FD	43-FB	44-FB
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte Units 45-FB

1 VOCs in Water by GC/MS for Low Detection Limits

Acetone	ug/L	5.0 U
Benzene	ug/L	0.50 U
Bromochloromethane	ug/L	0.50 U
Bromodichloromethane	ug/L	0.50 U
Bromoform	ug/L	0.50 U
Bromomethane	ug/L	0.50 U
2-Butanone	ug/L	5.0 U
Carbon Disulfide	ug/L	0.50 U
Carbon Tetrachloride	ug/L	0.50 U
Chlorobenzene	ug/L	0.50 U
Chloroethane	ug/L	0.50 U
Chloroform	ug/L	0.50 U
Chloromethane	ug/L	0.50 U
Cyclohexane	ug/L	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U
Dibromochloromethane	ug/L	0.50 U
1,2-Dibromoethane	ug/L	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U
1,1-Dichloroethane	ug/L	0.50 U
1,2-Dichloroethane	ug/L	0.50 U
1,1-Dichloroethene	ug/L	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U
1,2-Dichloropropane	ug/L	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U
Ethyl Benzene	ug/L	0.50 U
2-Hexanone	ug/L	5.0 U
Isopropylbenzene	ug/L	0.50 U
Methyl Acetate	ug/L	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U
Methylcyclohexane	ug/L	0.50 U
Methylene Chloride	ug/L	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U
Styrene	ug/L	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U
Tetrachloroethene	ug/L	0.50 U
Toluene	ug/L	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U

ASR Number: 5188
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/12/2011

Analysis/ Analyte	Units	45-FB
Trichloroethene	ug/L	0.50 U
Trichlorofluoromethane	ug/L	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U
Vinyl Chloride	ug/L	0.50 U
m and/or p-Xylene	ug/L	0.50 U
o-Xylene	ug/L	0.50 U

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

Date: __/__/____

Subject: Data Disposition/Sample Release for ASR #: 5188

Project ID: BZA72Z01

Project Description: Garvey Elevator - RI/FS sampling

From: Brian Zurbuchen
SUPR/IANE

To: Kaye Dollmann
ENSV/CARB

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes for Data Disposition.

I understand all samples will be disposed upon receipt of this form, unless samples are requested to be held. If I do not return this form all samples will be disposed of on _____.

- ☐ "RELEASED" - Read-only to all Region 7 employees and contractors that have R7LIMS "Customer" account. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Project Manager Accessible" - Available on the LAN in R7LIMS for my use only. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Archived" - THIS DATA IS OF A SENSITIVE NATURE. Any future reports must be requested through the laboratory. All samples may be disposed of upon receipt of the form if not requested to be held.

-
- ☐ Hold Samples - I have determined that the samples need to be held until _____, after which time they will be disposed of in accordance with applicable regulations.
The reason for the hold is:

☐ Samples are associated with a legal proceeding.

☐ Question/Concern with data - possible reanalysis requested.

☐ Other: _____

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

Date: 01/19/2011

Subject: Transmittal of Sample Analysis Results for ASR #: 5187

Project ID: BZA72Z02

Project Description: Garvey Elevator - RI/FS sampling

From: Michael F. Davis, Chief
Chemical Analysis and Response Branch, Environmental Services Division

To: Brian Zurbuchen
SUPR/IANE

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

Project Manager: Brian Zurbuchen

Org: SUPR/IANE

Phone: 913-551-7101

Project ID: BZA72Z02

QAPP Number: SDMS 40322811

Project Desc: Garvey Elevator - RI/FS sampling

Location: Hastings

State: Nebraska

Program: Superfund

Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER

Site ID: A72Z Site OU: 02

Purpose: Site Characterization

GPRA PRC: 302DD2C

Quarterly monitoring well sampling - OU #02.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

Units: Specific units in which results are reported.

___ = Field Sample

FB = Field Blank

FD = Field Duplicate

Deg C = Degrees Celsius

NTU = Nephelometric Turbidity Units

SU = Standard Units (pH)

mg/L = Milligrams per Liter

ug/L = Micrograms per Liter

umhos/cm = Micromhos per Centimeter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.

J = The identification of the analyte is acceptable; the reported value is an estimate.

U = The analyte was not detected at or above the reporting limit.

ASR Number: 5187

Sample Information Summary

01/19/2011

Project ID: BZA72Z02

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 - ___		Water	MW-44D		12/14/2010	11:20			12/17/2010
2 - ___		Water	MW-44E		12/14/2010	13:00			12/17/2010
3 - ___		Water	MW-42D		12/14/2010	15:20			12/17/2010
4 - ___		Water	MW-42E		12/14/2010	17:10			12/17/2010
5 - ___		Water	MW-17A		12/15/2010	09:00			12/17/2010
6 - ___		Water	MW-17D		12/15/2010	10:15			12/17/2010
7 - ___		Water	MW-17C		12/15/2010	11:25			12/17/2010
8 - ___		Water	MW-18D		12/15/2010	13:35			12/17/2010
9 - ___		Water	MW-18A		12/15/2010	14:40			12/17/2010
10 - ___		Water	MW-18C		12/15/2010	16:20			12/17/2010
11 - ___		Water	MW-106A		12/16/2010	09:20			12/17/2010
12 - ___		Water	MW-106D		12/16/2010	11:35			12/17/2010
13 - ___		Water	MW-106C		12/16/2010	13:35			12/17/2010
14 - ___		Water	MW-45C		12/16/2010	15:10			12/17/2010
14 - FD		Water	MW-45C/Field Duplicate of sample 14		12/16/2010	15:10			12/17/2010
16 - ___		Water	MW-45D		12/16/2010	17:00			12/21/2010
17 - ___		Water	Rinsate sample		12/16/2010	17:25			12/21/2010
18 - ___		Water	MW-12C		12/17/2010	09:35			12/21/2010
18 - FD		Water	MW-12C/Field Duplicate of sample 18		12/17/2010	09:35			12/21/2010
20 - ___		Water	MW-12A		12/17/2010	11:00			12/21/2010
21 - ___		Water	MW-12D		12/17/2010	12:05			12/21/2010
22 - ___		Water	MW-105D		12/17/2010	14:00			12/21/2010
22 - FD		Water	MW-105D/Field Duplicate of sample 22		12/17/2010	14:00			12/21/2010
24 - ___		Water	MW-105C		12/17/2010	16:30			12/21/2010
25 - ___		Water	MW-105A		12/18/2010	09:55			12/21/2010
26 - ___		Water	MW-46D2		12/18/2010	11:35			12/21/2010
27 - ___		Water	MW-46D1		12/18/2010	14:15			12/21/2010
28 - ___		Water	MW-14A		12/18/2010	17:05			12/21/2010
29 - ___		Water	MW-104D		12/19/2010	08:50			12/21/2010
30 - ___		Water	MW-104C		12/19/2010	10:25			12/21/2010
30 - FD		Water	MW-104C/Field Duplicate of sample 30		12/19/2010	10:25			12/21/2010
32 - ___		Water	MW-104A		12/19/2010	11:40			12/21/2010
33 - ___		Water	MW-41D1		12/19/2010	13:35			12/21/2010
34 - ___		Water	MW-41D2		12/19/2010	15:15			12/21/2010
35 - ___		Water	MW-11A		12/19/2010	17:10			12/21/2010
36 - ___		Water	MW-16C		12/20/2010	09:00			12/21/2010
37 - ___		Water	MW-16A		12/20/2010	10:07			12/21/2010
38 - ___		Water	MW-43E		12/20/2010	09:25			12/21/2010
39 - ___		Water	MW-43D		12/20/2010	10:35			12/21/2010
41 - ___		Water	MW-10B		12/19/2010	15:15			12/21/2010
42 - ___		Water	MW-10A		12/19/2010	16:37			12/21/2010
43 - FB		Water	LDL VOA Trip Blank sample		12/15/2010	13:10			12/17/2010

ASR Number: 5187

Sample Information Summary

01/19/2011

Project ID: BZA72Z02

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
44 - FB		Water	LDL VOA Trip Blank sample		12/19/2010	19:10			12/21/2010

Analysis Comments About Results For This Analysis

1 Conductivity by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 11-__ 12-__ 13-__ 14-__
14-FD 16-__ 18-__ 18-FD 20-__ 21-__ 22-__
22-FD 24-__ 25-__ 26-__ 27-__ 28-__ 29-__
30-__ 30-FD 32-__ 33-__ 34-__ 35-__ 36-__
37-__ 38-__ 39-__ 41-__ 42-__

Comments:

(N/A)

1 pH of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 11-__ 12-__ 13-__ 14-__
14-FD 16-__ 18-__ 18-FD 20-__ 21-__ 22-__
22-FD 24-__ 25-__ 26-__ 27-__ 28-__ 29-__
30-__ 30-FD 32-__ 33-__ 34-__ 35-__ 36-__
37-__ 38-__ 39-__ 41-__ 42-__

Comments:

(N/A)

1 Temperature of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 11-__ 12-__ 13-__ 14-__
14-FD 16-__ 18-__ 18-FD 20-__ 21-__ 22-__
22-FD 24-__ 25-__ 26-__ 27-__ 28-__ 29-__
30-__ 30-FD 32-__ 33-__ 34-__ 35-__ 36-__
37-__ 38-__ 39-__ 41-__ 42-__

Comments:

(N/A)

1 Total Dissolved Oxygen in Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__

Analysis Comments About Results For This Analysis

Samples: 8-___ 9-___ 10-___ 11-___ 12-___ 13-___ 14-___
 14-FD 16-___ 18-___ 18-FD 20-___ 21-___ 22-___
 22-FD 24-___ 25-___ 26-___ 27-___ 28-___ 29-___
 30-___ 30-FD 32-___ 33-___ 34-___ 35-___ 36-___
 37-___ 38-___ 39-___ 41-___ 42-___

Comments:
 (N/A)

1 Turbidity of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 8-___ 9-___ 10-___ 11-___ 12-___ 13-___ 14-___
 14-FD 16-___ 18-___ 18-FD 20-___ 21-___ 22-___
 22-FD 24-___ 25-___ 26-___ 27-___ 28-___ 29-___
 30-___ 30-FD 32-___ 33-___ 34-___ 35-___ 36-___
 37-___ 38-___ 39-___ 41-___ 42-___

Comments:
 (N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 8-___ 9-___ 10-___ 11-___ 12-___ 13-___ 14-___
 14-FD 16-___ 17-___ 18-___ 18-FD 20-___ 21-___
 22-___ 22-FD 24-___ 25-___ 26-___ 27-___ 28-___
 29-___ 30-___ 30-FD 32-___ 33-___ 34-___ 35-___
 36-___ 37-___ 38-___ 39-___ 41-___ 42-___ 43-FB
 44-FB

Comments:

A dilution was necessary due to high levels of carbon tetrachloride in sample -27 for this analysis. This increased the reporting limits by a factor of 2.9 times for this sample.

A high recovery was reported for chloroform-d (control limits = 78% - 121%) in samples -3 (130%).

Chloroform was J-coded in sample -3. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to high recovery of a surrogate analyte in this sample. The actual concentration for this analyte may be lower than the reported value.

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.397	0.337	0.505	0.427
1 pH of Water by Field Measurement					
pH	SU	7.25	7.48	7.00	7.20
1 Temperature of Water by Field Measurement					
Temperature	Deg C	8.75	9.95	10.92	9.85
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.44	3.76	5.96	3.21
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	19.1	1.6	2.0	32.6
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	13	0.50 U	15 J	50
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5187
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/19/2011

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.874	0.296	0.676	0.538
1 pH of Water by Field Measurement					
pH	SU	7.26	7.45	7.34	7.31
1 Temperature of Water by Field Measurement					
Temperature	Deg C	8.91	8.94	9.81	11.06
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.94	3.72	7.52	6.59
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	1.2
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.85	0.50 U	37	23
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5187
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/19/2011

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.407	0.729	0.844	0.383
1 pH of Water by Field Measurement					
pH	SU	6.53	7.13	7.11	7.31
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.49	10.31	10.00	9.80
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.45	6.30	7.94	5.70
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	9.7	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5187
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/19/2011

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	13-__	14-__	14-FD	16-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.564	0.693	0.693	0.562
1 pH of Water by Field Measurement					
pH	SU	7.04	7.33	7.33	7.39
1 Temperature of Water by Field Measurement					
Temperature	Deg C	12.33	11.07	11.07	9.68
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.92	9.07	9.07	4.21
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	25.0	25.0	0.5
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5187
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/19/2011

Analysis/ Analyte	Units	13-__	14-__	14-FD	16-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	17-__	18-__	18-FD	20-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm		0.781	0.781	1.15
1 pH of Water by Field Measurement					
pH	SU		6.82	6.82	7.29
1 Temperature of Water by Field Measurement					
Temperature	Deg C		9.22	9.22	10.31
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L		6.72	6.72	4.88
1 Turbidity of Water by Field Measurement					
Turbidity	NTU		0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	20	23	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	1.3	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	1.5	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5187
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/19/2011

Analysis/ Analyte	Units	17-__	18-__	18-FD	20-__
Methylene Chloride	ug/L	0.83	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	21-__	22-__	22-FD	24-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.539	0.465	0.465	0.803
1 pH of Water by Field Measurement					
pH	SU	6.99	7.16	7.16	6.88
1 Temperature of Water by Field Measurement					
Temperature	Deg C	11.16	10.71	10.71	10.19
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	3.49	4.59	4.59	6.06
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	1.4	17	16	170
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	1.7
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5187
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/19/2011

Analysis/ Analyte	Units	21-__	22-__	22-FD	24-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.879	0.503	0.627	0.909
1 pH of Water by Field Measurement					
pH	SU	7.08	7.28	7.11	6.82
1 Temperature of Water by Field Measurement					
Temperature	Deg C	9.96	9.60	12.93	5.72
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.24	5.79	1.82	4.97
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	2.2	12.5	49.1	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	15 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	15 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	150	470	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Chloroform	ug/L	0.50 U	1.0	5.9	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	1.4 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	15 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	1.4 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U

ASR Number: 5187
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/19/2011

Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
Methylene Chloride	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	15 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	1.5 U	0.50 U

Analysis/ Analyte	Units	29-__	30-__	30-FD	32-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.347	0.435	0.435	0.876
1 pH of Water by Field Measurement					
pH	SU	6.48	7.09	7.09	6.87
1 Temperature of Water by Field Measurement					
Temperature	Deg C	8.67	11.55	11.55	11.38
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.02	2.82	2.82	6.39
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5187
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/19/2011

Analysis/ Analyte	Units	29-__	30-__	30-FD	32-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	9.8	9.9	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.713	0.317	0.729	0.864
1 pH of Water by Field Measurement					
pH	SU	6.89	7.08	6.80	6.74
1 Temperature of Water by Field Measurement					
Temperature	Deg C	9.79	9.43	11.31	9.20
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.00	2.99	5.03	5.68
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	12.7	18.4	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	1.2	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5187
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/19/2011

Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	37-__	38-__	39-__	41-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	1.02	0.419	0.585	0.827
1 pH of Water by Field Measurement					
pH	SU	6.89	7.19	7.12	7.12
1 Temperature of Water by Field Measurement					
Temperature	Deg C	9.12	7.17	6.40	10.59
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.90	8.49	7.00	7.15
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	5.6	5.1	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	1.0	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5187
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/19/2011

Analysis/ Analyte	Units	37-__	38-__	39-__	41-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	42-__	43-FB	44-FB
1 Conductivity by Field Measurement				
Conductivity	umhos/cm	0.947		
1 pH of Water by Field Measurement				
pH	SU	7.11		
1 Temperature of Water by Field Measurement				
Temperature	Deg C	9.29		
1 Total Dissolved Oxygen in Water by Field Measurement				
Dissolved Oxygen	mg/L	7.23		
1 Turbidity of Water by Field Measurement				
Turbidity	NTU	0.0		
1 VOCs in Water by GC/MS for Low Detection Limits				
Acetone	ug/L	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.54	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U

ASR Number: 5187
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

01/19/2011

Analysis/ Analyte	Units	42-__	43-FB	44-FB
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U

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

Date: __/__/____

Subject: Data Disposition/Sample Release for ASR #: 5187

Project ID: BZA72Z02

Project Description: Garvey Elevator - RI/FS sampling

From: Brian Zurbuchen
SUPR/IANE

To: Kaye Dollmann
ENSV/CARB

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes for Data Disposition.

I understand all samples will be disposed upon receipt of this form, unless samples are requested to be held. If I do not return this form all samples will be disposed of on _____.

- ☐ "RELEASED" - Read-only to all Region 7 employees and contractors that have R7LIMS "Customer" account. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Project Manager Accessible" - Available on the LAN in R7LIMS for my use only. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Archived" - THIS DATA IS OF A SENSITIVE NATURE. Any future reports must be requested through the laboratory. All samples may be disposed of upon receipt of the form if not requested to be held.

-
- ☐ Hold Samples - I have determined that the samples need to be held until _____, after which time they will be disposed of in accordance with applicable regulations.
The reason for the hold is:

☐ Samples are associated with a legal proceeding.

☐ Question/Concern with data - possible reanalysis requested.

☐ Other: _____

SEPTEMBER 2011

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

Date: 11/07/2011

Subject: Transmittal of Sample Analysis Results for ASR #: 5511

Project ID: BZA72Z01

Project Description: Garvey Elevator - RI/FS sampling

From: Michael F. Davis, Chief
Chemical Analysis and Response Branch, Environmental Services Division

To: Brian Zurbuchen
SUPR/IANE

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

Project Manager: Brian Zurbuchen

Org: SUPR/IANE

Phone: 913-551-7101

Project ID: BZA72Z01

QAPP Number: SDMS 40322811

Project Desc: Garvey Elevator - RI/FS sampling

Location: Hastings

State: Nebraska

Program: Superfund

Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND
GROUNDWATERSite ID: A72Z Site OU: 01
GPRA PRC: 303DD2

Purpose: Site Characterization

Semi-annual monitoring well sampling - OU #01.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of
sample for quality control purpose.Units: Specific units in which results are
reported.

___ = Field Sample

FB = Field Blank

FD = Field Duplicate

Deg C = Degrees Celsius

mg/L = Milligrams per Liter

SU = Standard Units (pH)

umhos/cm = Micromhos per Centimeter

ug/L = Micrograms per Liter

NTU = Nephelometric Turbidity Units

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information
on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.

U = The analyte was not detected at or above the reporting limit.

J = The identification of the analyte is acceptable; the reported value is an
estimate.UJ = The analyte was not detected at or above the reporting limit. The reporting
limit is an estimate.

ASR Number: 5511

Sample Information Summary

11/07/2011

Project ID: BZA72Z01

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 - ___		Water	MW-31C		09/27/2011	12:55			09/29/2011
2 - ___		Water	MW-31A		09/27/2011	13:55			09/29/2011
3 - ___		Water	MW-30E		09/27/2011	14:50			09/29/2011
4 - ___		Water	MW-30D		09/27/2011	16:00			09/29/2011
5 - ___		Water	MW-30C		09/27/2011	17:00			09/29/2011
5 - FD		Water	MW-30C/Field Duplicate of sample 5		09/27/2011	17:00			09/29/2011
7 - ___		Water	MW-30A		09/27/2011	17:55			09/29/2011
8 - ___		Water	MW-20E		09/28/2011	08:30			09/29/2011
9 - ___		Water	MW-20D		09/28/2011	09:35			09/29/2011
10 - ___		Water	MW-20C		09/28/2011	10:30			09/29/2011
11 - ___		Water	MW-20A		09/28/2011	12:10			09/29/2011
12 - ___		Water	MW-19C		09/28/2011	14:10			09/29/2011
13 - ___		Water	MW-19A		09/28/2011	13:15			09/29/2011
14 - ___		Water	MW-1A		09/28/2011	16:00			09/29/2011
15 - ___		Water	MW-9A		09/28/2011	17:30			09/30/2011
16 - ___		Water	MW-6D		09/29/2011	09:35			09/30/2011
17 - ___		Water	MW-6A		09/28/2011	10:35			09/30/2011
18 - ___		Water	MW-6E		09/29/2011	11:40			09/30/2011
19 - ___		Water	MW-7A		09/29/2011	13:00			09/30/2011
20 - ___		Water	MW-7B		09/29/2011	14:00			09/30/2011
21 - ___		Water	MW-13E		09/29/2011	15:30			09/30/2011
22 - ___		Water	MW-13C		09/29/2011	17:30			10/03/2011
22 - FD		Water	MW-13C/Field Duplicate of sample 22		09/29/2011	17:30			10/03/2011
24 - ___		Water	MW-3B		09/30/2011	10:25			10/03/2011
25 - ___		Water	Dean Rolls Old Well		09/30/2011	09:25			10/03/2011
26 - ___		Water	Dean Rolls New Well		09/30/2011	09:30			10/03/2011
27 - ___		Water	MW-3A		09/30/2011	12:40			10/03/2011
28 - ___		Water	MW-3E		09/30/2011	13:50			10/03/2011
29 - ___		Water	MW-3D		09/30/2011	14:55			10/03/2011
30 - ___		Water	MW-8A		09/30/2011	17:10			10/03/2011
31 - ___		Water	MW-5B		10/01/2011	08:35			10/03/2011
32 - ___		Water	MW-5A		10/01/2011	10:10			10/03/2011
33 - ___		Water	MW-5D		10/01/2011	11:20			10/03/2011
34 - ___		Water	MW-2A		10/01/2011	12:35			10/03/2011
35 - ___		Water	MW-49B		10/01/2011	13:45			10/03/2011
36 - ___		Water	MW-49C		10/01/2011	15:15			10/03/2011
37 - ___		Water	MW-49D		10/01/2011	16:35			10/03/2011
38 - ___		Water	MW-4B		10/02/2011	11:55			10/03/2011
38 - FD		Water	MW-4B/Field Duplicate of sample 38		10/02/2011	11:55			10/03/2011
40 - ___		Water	MW-50C		10/02/2011	14:10			10/03/2011
40 - FD		Water	MW-50C/Field Duplicate of sample 40		10/02/2011	14:10			10/03/2011
42 - ___		Water	MW-50B		10/02/2011	15:15			10/03/2011

ASR Number: 5511

Sample Information Summary

11/07/2011

Project ID: BZA72Z01

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
43 - ___		Water	MW-47B		10/03/2011	09:50			10/04/2011
44 - ___		Water	MW-47C		10/03/2011	10:00			10/04/2011
45 - ___		Water	MW-50D		10/02/2011	16:55			10/03/2011
46 - ___		Water	MW-47D		10/03/2011	11:00			10/04/2011
47 - ___		Water	MW-51C		10/03/2011	13:10			10/04/2011
48 - ___		Water	MW-51D		10/03/2011	12:40			10/04/2011
49 - ___		Water	MW-48D		10/03/2011	14:40			10/04/2011
51 - ___		Water	Rinsate Blank sample		10/03/2011	15:15			10/04/2011
55 - ___		Water	MW-4A		10/02/2011	11:10			10/03/2011
57 - ___		Water	MW-48C		10/02/2011	13:35			10/03/2011
57 - FD		Water	MW-48C/Field Duplicate of sample 57		10/02/2011	13:35			10/03/2011
59 - ___		Water	MW-48B		10/02/2011	15:20			10/04/2011
60 - ___		Water	MW-51B		10/02/2011	16:55			10/03/2011
61 - FB		Water	LDL VOA Trip Blank sample		09/28/2011	08:00			09/29/2011
62 - FB		Water	LDL VOA Trip Blank sample		09/30/2011	08:00			10/03/2011
63 - FB		Water	LDL VOA Trip Blank sample		10/01/2011	08:00			10/03/2011
64 - FB		Water	LDL VOA Trip Blank sample		10/03/2011	08:00			10/04/2011

Analysis Comments About Results For This Analysis

1 Conductivity by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:	1-__	2-__	3-__	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	30-__	31-__	32-__	33-__	34-__	35-__
	36-__	37-__	38-__	38-FD	40-__	40-FD	42-__
	43-__	44-__	45-__	46-__	47-__	48-__	49-__
	55-__	57-__	57-FD	59-__	60-__		

Comments:
(N/A)**1 pH of Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:	1-__	2-__	3-__	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	30-__	31-__	32-__	33-__	34-__	35-__
	36-__	37-__	38-__	38-FD	40-__	40-FD	42-__
	43-__	44-__	45-__	46-__	47-__	48-__	49-__
	55-__	57-__	57-FD	59-__	60-__		

Comments:
(N/A)**1 Temperature of Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:	1-__	2-__	3-__	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	30-__	31-__	32-__	33-__	34-__	35-__
	36-__	37-__	38-__	38-FD	40-__	40-FD	42-__
	43-__	44-__	45-__	46-__	47-__	48-__	49-__
	55-__	57-__	57-FD	59-__	60-__		

Comments:

Analysis Comments About Results For This Analysis

(N/A)

1 Total Dissolved Oxygen in Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:	1-__	2-__	3-__	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	30-__	31-__	32-__	33-__	34-__	35-__
	36-__	37-__	38-__	38-FD	40-__	40-FD	42-__
	43-__	44-__	45-__	46-__	47-__	48-__	49-__
	55-__	57-__	57-FD	59-__	60-__		

Comments:

(N/A)

1 Turbidity of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples:	1-__	2-__	3-__	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	30-__	31-__	32-__	33-__	34-__	35-__
	36-__	37-__	38-__	38-FD	40-__	40-FD	42-__
	43-__	44-__	45-__	46-__	47-__	48-__	49-__
	55-__	57-__	57-FD	59-__	60-__		

Comments:

(N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Region 7 EPA Laboratory - Kansas City, Ks.

Method: EPA Region 7 RLAB Method 3230.13E

Samples:	1-__	2-__	3-__	4-__	5-__	5-FD	7-__
	8-__	9-__	10-__	11-__	12-__	13-__	14-__
	15-__	16-__	17-__	18-__	19-__	20-__	21-__
	22-__	22-FD	24-__	25-__	26-__	27-__	28-__
	29-__	30-__	31-__	32-__	33-__	34-__	35-__
	36-__	37-__	38-__	38-FD	40-__	40-FD	42-__
	43-__	44-__	45-__	46-__	47-__	48-__	49-__
	51-__	55-__	57-__	57-FD	59-__	60-__	61-FB

Analysis **Comments About Results For This Analysis**

Samples: 62-FB 63-FB 64-FB

Comments:

Sample 62FB was analyzed past the 14-day holding time, as it was not found in the EPA refrigerators. It was later found in the Contractor lab and analyzed. The values have been UJ-coded, as there were no hits.

Sample 49 was not preserved to a pH less than 2. As it was analyzed within 7 days of sampling, no coding was required.

Several samples had bubbles in the vials. Samples 3 and 21 had a large enough bubble that the samples needed to be coded: UJ-coded for non-detects, J-coded for hits. Samples 4, 5 and 5FD had small bubbles but were not coded.

Acetone, 2-Butanone, 2-Hexanone, Bromoform, 1,2-Dibromo-3-Chloropropane, Naphthalene and 1,2,3-Trichlorobenzene were UJ-coded in samples 1-5 and 7-18. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. 2-Butanone and 1,2,3-Trichlorobenzene had low recovery in the laboratory control sample. 1,2,3-Trichlorobenzene had low recovery in the matrix spike and spike duplicate of sample 1. The actual reporting limit for these analytes may be higher than the reported value.

2-Butanone was J-coded in sample 9. Although the analyte in question has been positively identified in the samples, the quantitation is an estimate (J-coded) due to the continuing calibration check not meeting accuracy specifications. The actual concentration for this analyte may be higher than the reported value.

Acetone, 2-Butanone, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene, Dibromochloromethane, Bromoform, 1,2-Dibromo-3-Chloropropane, Naphthalene and 1,2,3-Trichlorobenzene were UJ-coded in samples 19-21, 5FD and 61-FB. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. 1,2-Dibromo-3-Chloropropane and 1,2,3-Trichlorobenzene had low recovery in the laboratory control sample. The actual reporting limit for this analyte may be higher than the reported value.

Acetone, 2-Butanone, Dibromochloromethane, Bromoform, 1,2-Dibromo-3-Chloropropane, Naphthalene and 1,2,3-Trichlorobenzene were UJ-coded in samples 22, 22FD, 24-37 and 59. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. 1,2-Dibromo-3-Chloropropane and 1,2,3-Trichlorobenzene had low recovery in the laboratory control sample. Bromoform, 1,2-Dibromo-3-Chloropropane, Dibromochloromethane and 1,2,3-Trichlorobenzene had low recovery in the matrix spike and spike duplicate of sample 28. The actual reporting limit for these analytes may be higher than the reported value.

Acetone was J-coded in sample 28. Although the analyte in question has been positively identified in the samples, the quantitation is an estimate (J-coded) due to the continuing

Analysis	Comments About Results For This Analysis
----------	--

calibration check not meeting accuracy specifications. The actual concentration for this analyte may be higher than the reported value.

Carbon Tetrachloride was J-coded in samples: 7, 13 and 25, 31 and 32 and UJ-coded in 26-30, 33, 34, 36 and 37, due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit or value for this analyte may be higher than the reported value.

Acetone, 2-Butanone, 2-Hexanone, Dibromochloromethane, Bromoform, 1,2-Dibromo-3-Chloropropane, Naphthalene and 1,2,3-Trichlorobenzene were UJ-coded in samples 38, 38FD, 40, 40FD, 42, 45, 55, 57, 57FD, 60, 63FB and 64FB. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. Acetone, 2-Hexanone, Dibromochloromethane, Bromoform, 1,2-Dibromo-3-Chloropropane, Naphthalene and 1,2,3-Trichlorobenzene had low recovery in the laboratory control sample.

Bromoform and 1,2,3-Trichlorobenzene had low recovery in the matrix spike and/or the spike duplicate of sample 55. The actual reporting limit for these analytes may be higher than the reported value.

Acetone, Bromoform, 1,2-Dibromo-3-Chloropropane and 1,2,3-Trichlorobenzene were UJ-coded in samples 43, 44, 46-49 and 51. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. Bromoform and 1,2,3-Trichlorobenzene had low recovery in the laboratory control sample. The actual reporting limit for these analytes may be higher than the reported value.

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.386	0.878	0.559	0.701
1 pH of Water by Field Measurement					
pH	SU	6.77	6.75	7.4	6.50
1 Temperature of Water by Field Measurement					
Temperature	Deg C	14.37	15.09	13.83	13.52
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.68	0.70	13.32	3.88
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.31	0.93	0.31	13.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.1	1.0 UJ	1.0
Carbon Tetrachloride	ug/L	1.0 U	7.5	1.0 UJ	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroform	ug/L	1.0 U	16	1.8 J	3.4
Chloromethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
2-Hexanone	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 UJ	2.1

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U

Analysis/ Analyte	Units	5-__	5-FD	7-__	8-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.663	0.663	0.676	0.448
1 pH of Water by Field Measurement					
pH	SU	7.56	7.56	6.88	7.47
1 Temperature of Water by Field Measurement					
Temperature	Deg C	13.97	13.97	14.67	12.11
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	12.93	12.93	7.28	7.05
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.45	0.45	1.16	0.37
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	2.5	1.0 U	3.2	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	160 J	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	4.4	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 UJ	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 UJ	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 UJ	2.0 U	2.0 UJ	2.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	5-__	5-FD	7-__	8-__
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.456	0.524	0.735	0.744
1 pH of Water by Field Measurement					
pH	SU	6.56	6.88	6.85	6.68
1 Temperature of Water by Field Measurement					
Temperature	Deg C	12.54	13.27	16.80	15.16
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	1.04	8.66	1.05	8.45
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	4.51	0.31	1.09	0.11
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	10 J	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.1	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.2	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	1.027	0.716	0.909	0.556
1 pH of Water by Field Measurement					
pH	SU	6.93	6.86	7.15	6.74
1 Temperature of Water by Field Measurement					
Temperature	Deg C	17.83	15.26	14.29	13.54
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.20	7.95	9.29	7.61
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.30	2.50	3.16	9.92
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	70 J	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	4.1	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	6.2	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.833	0.346	0.810	0.798
1 pH of Water by Field Measurement					
pH	SU	6.71	7.08	6.77	6.73
1 Temperature of Water by Field Measurement					
Temperature	Deg C	13.68	15.88	12.87	14.02
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.92	4.13	8.51	7.05
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	1.14	2.48	0.51	0.25
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	9.8	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 UJ	2.0 UJ	2.0 U	2.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	21-__	22-__	22-FD	24-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.625	0.616	0.616	0.803
1 pH of Water by Field Measurement					
pH	SU	7.10	7.02	7.02	6.80
1 Temperature of Water by Field Measurement					
Temperature	Deg C	15.70	14.71	14.71	12.88
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	11.53	12.95	12.95	8.78
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	2.95	0.45	0.45	0.43
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 UJ	130	130	53
Chlorobenzene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 UJ	2.0 U	2.0 U	2.0 U
Isopropylbenzene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 UJ	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	21-__	22-__	22-FD	24-__
4-Methyl-2-Pentanone	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 UJ	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.977	0.498	0.889	0.539
1 pH of Water by Field Measurement					
pH	SU	7.06	7.23	6.81	7.60
1 Temperature of Water by Field Measurement					
Temperature	Deg C	13.35	12.37	14.12	14.07
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.63	6.87	9.01	2.61
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	5.36	2.54	3.06	0.37
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	9.0 J
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	13 J	1.0 UJ	1.0 UJ	1.0 UJ
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	25-__	26-__	27-__	28-__
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	29-__	30-__	31-__	32-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.564	1.150	0.865	0.793
1 pH of Water by Field Measurement					
pH	SU	6.85	6.86	6.78	6.90
1 Temperature of Water by Field Measurement					
Temperature	Deg C	15.29	15.25	12.18	14.38
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.05	8.22	9.47	8.84
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	2.11	0.58	2.00	3.51
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 UJ	1.0 U	19 J	4.1 J
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	29-__	30-__	31-__	32-__
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.563	0.686	0.701	0.615
1 pH of Water by Field Measurement					
pH	SU	6.83	6.49	6.79	6.77
1 Temperature of Water by Field Measurement					
Temperature	Deg C	14.56	15.13	16.21	14.50
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	11.82	8.54	8.63	8.36
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	4.02	1.86	0.39	5.28
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 UJ	1.0 UJ	43	1.0 UJ
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	37-__	38-__	38-FD	40-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.545	0.786	0.786	0.648
1 pH of Water by Field Measurement					
pH	SU	6.8	6.92	6.92	7.13
1 Temperature of Water by Field Measurement					
Temperature	Deg C	14.52	13.56	13.56	18.17
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.13	11.75	11.75	15.42
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	11.7	3.11	3.11	12.7
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.5	1.5	1.0 U
Carbon Tetrachloride	ug/L	1.0 UJ	640	630	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.3	1.3	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 U	2.0 UJ	2.0 UJ	2.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	37-__	38-__	38-FD	40-__
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	40-FD	42-__	43-__	44-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.648	0.543	0.880	0.780
1 pH of Water by Field Measurement					
pH	SU	7.13	6.96	6.91	6.72
1 Temperature of Water by Field Measurement					
Temperature	Deg C	18.17	18.39	13.54	14.96
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	15.42	7.68	9.23	7.88
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	12.7	2.85	1.78	0.25
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	8.4	59	6.2
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	4.6	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 UJ	2.0 UJ	2.0 U	2.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	40-FD	42-__	43-__	44-__
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.4	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	45-__	46-__	47-__	48-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.537	0.628	0.697	0.673
1 pH of Water by Field Measurement					
pH	SU	14.63	6.93	7.55	7.60
1 Temperature of Water by Field Measurement					
Temperature	Deg C	14.63	14.99	16.32	15.43
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.96	8.15	7.55	10.31
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	13.6	2.12	4.85	3.49
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 UJ	2.0 U	2.0 U	2.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	45-__	46-__	47-__	48-__
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	49-__	51-__	55-__	57-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.679		0.764	0.689
1 pH of Water by Field Measurement					
pH	SU	7.27		6.84	6.83
1 Temperature of Water by Field Measurement					
Temperature	Deg C	16.37		15.00	20.68
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	14.33		8.46	7.20
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	3.38		1.27	45.6
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	21	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	5.7	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 U	2.0 U	2.0 UJ	2.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	49-__	51-__	55-__	57-__
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	57-FD	59-__	60-__	61-FB
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.689	0.887	0.724	
1 pH of Water by Field Measurement					
pH	SU	6.83	6.98	7.07	
1 Temperature of Water by Field Measurement					
Temperature	Deg C	20.68	19.55	19.37	
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.20	8.28	10.34	
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	45.6	17.6	1.10	
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.2	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	2.1	2.6	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	680	1200	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	2.2	15	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.2	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 U	2.0 U	2.0 UJ	2.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	57-FD	59-__	60-__	61-FB
4-Methyl-2-Pentanone	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	62-FB	63-FB	64-FB
1 VOCs in Water by GC/MS for Low Detection Limits				
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 UJ	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 UJ	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 UJ	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 UJ	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 UJ	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 UJ	1.0 U	1.0 U
Chloroethane	ug/L	1.0 UJ	1.0 U	1.0 U
Chloroform	ug/L	1.0 UJ	1.0 U	1.0 U
Chloromethane	ug/L	1.0 UJ	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 UJ	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane	ug/L	1.0 UJ	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 UJ	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 UJ	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 UJ	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 UJ	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 UJ	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 UJ	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 UJ	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 UJ	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 UJ	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 UJ	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 UJ	1.0 U	1.0 U
2-Hexanone	ug/L	2.0 UJ	2.0 UJ	2.0 UJ
Isopropylbenzene	ug/L	1.0 UJ	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 UJ	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 UJ	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 UJ	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 UJ	1.0 U	1.0 U
4-Methyl-2-Pentanone	ug/L	1.0 UJ	1.0 U	1.0 U
Naphthalene	ug/L	2.0 UJ	2.0 UJ	2.0 UJ
Styrene	ug/L	1.0 UJ	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 UJ	5.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 UJ	1.0 U	1.0 U
Toluene	ug/L	1.0 UJ	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ
1,2,4-Trichlorobenzene	ug/L	1.0 UJ	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 UJ	1.0 U	1.0 U

ASR Number: 5511
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/07/2011

Analysis/ Analyte	Units	62-FB	63-FB	64-FB
Trichloroethene	ug/L	1.0 UJ	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 UJ	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 UJ	1.0 U	1.0 U
m and/or p-Xylene	ug/L	1.0 UJ	1.0 U	1.0 U
o-Xylene	ug/L	1.0 UJ	1.0 U	1.0 U

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

Date: __/__/____

Subject: Data Disposition/Sample Release for ASR #: 5511

Project ID: BZA72Z01

Project Description: Garvey Elevator - RI/FS sampling

From: Brian Zurbuchen
SUPR/IANE

To: Kaye Dollmann
ENSV/CARB

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes for Data Disposition.

I understand all samples will be disposed upon receipt of this form, unless samples are requested to be held. If I do not return this form all samples will be disposed of on _____.

- ☐ "RELEASED" - Read-only to all Region 7 employees and contractors that have R7LIMS "Customer" account. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Project Manager Accessible" - Available on the LAN in R7LIMS for my use only. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Archived" - THIS DATA IS OF A SENSITIVE NATURE. Any future reports must be requested through the laboratory. All samples may be disposed of upon receipt of the form if not requested to be held.

-
- ☐ Hold Samples - I have determined that the samples need to be held until _____, after which time they will be disposed of in accordance with applicable regulations.
The reason for the hold is:

☐ Samples are associated with a legal proceeding.

☐ Question/Concern with data - possible reanalysis requested.

☐ Other: _____

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

Date: 11/03/2011

Subject: Transmittal of Sample Analysis Results for ASR #: 5512

Project ID: BZA72Z02

Project Description: Garvey Elevator - RI/FS sampling

From: Michael F. Davis, Chief
Chemical Analysis and Response Branch, Environmental Services Division

To: Brian Zurbuchen
SUPR/IANE

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

Project Manager: Brian Zurbuchen

Org: SUPR/IANE

Phone: 913-551-7101

Project ID: BZA72Z02

QAPP Number: SDMS 40322811

Project Desc: Garvey Elevator - RI/FS sampling

Location: Hastings

State: Nebraska

Program: Superfund

Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER

Site ID: A72Z Site OU: 02

Purpose: Site Characterization

GPRA PRC: 303DD2

Semi-annual monitoring well sampling - OU #02.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

Units: Specific units in which results are reported.

___ = Field Sample

FB = Field Blank

FD = Field Duplicate

umhos/cm = Micromhos per Centimeter

SU = Standard Units (pH)

ug/L = Micrograms per Liter

Deg C = Degrees Celsius

NTU = Nephelometric Turbidity Units

mg/L = Milligrams per Liter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.

UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

J = The identification of the analyte is acceptable; the reported value is an estimate.

U = The analyte was not detected at or above the reporting limit.

Project ID: BZA72Z02

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 - ___		Water	MW-18D		09/27/2011	12:15			09/29/2011
2 - ___		Water	MW-18A		09/27/2011	13:25			09/29/2011
3 - ___		Water	MW-18C		09/27/2011	14:50	09/27/2011	14:52	09/29/2011
4 - ___		Water	MW-44E		09/27/2011	16:20	09/27/2011	16:22	09/29/2011
5 - ___		Water	MW-44D		09/27/2011	18:13	09/27/2011	18:15	09/29/2011
6 - ___		Water	MW-43E		09/28/2011	09:05	09/28/2011	09:07	09/29/2011
7 - ___		Water	MW-43D		09/28/2011	09:45	09/28/2011	09:47	09/29/2011
8 - ___		Water	MW-41 (D2)		09/28/2011	11:00	09/28/2011	11:02	09/29/2011
9 - ___		Water	MW-41 (D1)		09/28/2011	12:35	09/28/2011	12:37	09/29/2011
10 - ___		Water	MW-105D		09/28/2011	13:45	09/28/2011	13:47	09/29/2011
10 - FD		Water	MW-105D/Field Duplicate of sample 10		09/28/2011	13:45	09/28/2011	13:47	09/29/2011
12 - ___		Water	MW-105C		09/28/2011	14:35	09/28/2011	14:37	09/30/2011
13 - ___		Water	MW-105A		09/28/2011	15:30	09/28/2011	15:32	09/30/2011
14 - ___		Water	MW-46 (D2)		09/28/2011	16:35	09/28/2011	16:37	09/30/2011
15 - ___		Water	MW-46 (D1)		09/28/2011	17:30	09/28/2011	17:32	09/30/2011
16 - ___		Water	MW-42E		09/29/2011	09:40	09/29/2011		09/30/2011
17 - ___		Water	MW-42D		09/29/2011	10:30			09/30/2011
17 - FD		Water	MW-42D/Field Duplicate of sample 17		09/29/2011	10:30			09/30/2011
19 - ___		Water	MW-106A		09/29/2011	11:50			09/30/2011
20 - ___		Water	MW-106C		09/29/2011	12:50			09/30/2011
21 - ___		Water	MW-106D		09/29/2011	13:55			09/30/2011
22 - ___		Water	Pump Rinsate Blank sample		09/29/2011	14:15			09/30/2011
23 - ___		Water	MW-45D		09/29/2011	15:45			09/30/2011
24 - ___		Water	MW-45C		09/29/2011	17:05			10/03/2011
24 - FD		Water	MW-45C/Field Duplicate of sample 24		09/29/2011	17:05			10/03/2011
26 - ___		Water	MW-12D		09/30/2011	08:50			10/03/2011
27 - ___		Water	MW-12A		09/30/2011	09:45			10/03/2011
28 - ___		Water	MW-12C		09/30/2011	10:40			10/03/2011
28 - FD		Water	MW-12C/Field Duplicate of sample 28		09/30/2011	10:40			10/03/2011
30 - ___		Water	MW-16A		09/30/2011	12:25			10/03/2011
31 - ___		Water	MW-16C		09/30/2011	13:20			10/03/2011
32 - ___		Water	MW-17A		09/30/2011	15:10			10/03/2011
33 - ___		Water	MW-17C		09/30/2011	16:10			10/03/2011
34 - ___		Water	MW-17D		09/30/2011	17:05			10/03/2011
35 - ___		Water	MW-104A		10/01/2011	08:25			10/03/2011
36 - ___		Water	MW-104C		10/01/2011	09:30			10/03/2011
37 - ___		Water	MW-104D		10/01/2011	10:50			10/03/2011
38 - ___		Water	MW-14A		10/01/2011	11:55			10/03/2011
39 - ___		Water	MW-10B		10/01/2011	13:30			10/03/2011
40 - ___		Water	MW-10A		10/01/2011	14:45			10/03/2011
41 - ___		Water	MW-10A		10/01/2011	16:05			10/03/2011
45 - FB		Water	LDL VOA Trip Blank sample		09/21/2011	11:27	09/28/2011	08:50	09/29/2011

ASR Number: 5512

Sample Information Summary

11/03/2011

Project ID: BZA72Z02

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
46 - FB		Water	LDL VOA Trip Blank sample		09/21/2011	11:23	09/29/2011	09:00	09/30/2011
47 - FB		Water	LDL VOA Trip Blank sample		09/21/2011	11:25	09/30/2011	08:15	10/03/2011

Analysis **Comments About Results For This Analysis**

1 **Conductivity by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 10-FD 12-__ 13-__ 14-__
15-__ 16-__ 17-__ 17-FD 19-__ 20-__ 21-__
23-__ 24-__ 24-FD 26-__ 27-__ 28-__ 28-FD
30-__ 31-__ 32-__ 33-__ 34-__ 35-__ 36-__
37-__ 38-__ 39-__ 40-__ 41-__

Comments:

(N/A)

1 **pH of Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 10-FD 12-__ 13-__ 14-__
15-__ 16-__ 17-__ 17-FD 19-__ 20-__ 21-__
23-__ 24-__ 24-FD 26-__ 27-__ 28-__ 28-FD
30-__ 31-__ 32-__ 33-__ 34-__ 35-__ 36-__
37-__ 38-__ 39-__ 40-__ 41-__

Comments:

(N/A)

1 **Temperature of Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 10-FD 12-__ 13-__ 14-__
15-__ 16-__ 17-__ 17-FD 19-__ 20-__ 21-__
23-__ 24-__ 24-FD 26-__ 27-__ 28-__ 28-FD
30-__ 31-__ 32-__ 33-__ 34-__ 35-__ 36-__
37-__ 38-__ 39-__ 40-__ 41-__

Comments:

(N/A)

1 **Total Dissolved Oxygen in Water by Field Measurement**

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__

Analysis Comments About Results For This Analysis

Samples: 8-___ 9-___ 10-___ 10-FD 12-___ 13-___ 14-___
 15-___ 16-___ 17-___ 17-FD 19-___ 20-___ 21-___
 23-___ 24-___ 24-FD 26-___ 27-___ 28-___ 28-FD
 30-___ 31-___ 32-___ 33-___ 34-___ 35-___ 36-___
 37-___ 38-___ 39-___ 40-___ 41-___

Comments:
 (N/A)

1 Turbidity of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 8-___ 9-___ 10-___ 10-FD 12-___ 13-___ 14-___
 15-___ 16-___ 17-___ 17-FD 19-___ 20-___ 21-___
 23-___ 24-___ 24-FD 26-___ 27-___ 28-___ 28-FD
 30-___ 31-___ 32-___ 33-___ 34-___ 35-___ 36-___
 37-___ 38-___ 39-___ 40-___ 41-___

Comments:
 (N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Region 7 ESAT Contract Lab (In-House)

Method: EPA Region 7 RLAB Method 3230.13E

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 8-___ 9-___ 10-___ 10-FD 12-___ 13-___ 14-___
 15-___ 16-___ 17-___ 17-FD 19-___ 20-___ 21-___
 22-___ 23-___ 24-___ 24-FD 26-___ 27-___ 28-___
 28-FD 30-___ 31-___ 32-___ 33-___ 34-___ 35-___
 36-___ 37-___ 38-___ 39-___ 40-___ 41-___ 45-FB
 46-FB 47-FB

Comments:

Acetone (26.11%) was high and was UJ-coded in samples 5512-1, 5512-2, 5512-3, 5512-4, 5512-5, 5512-6, 5512-7, 5512-8, 5512-9, 5512-10, 5512-10-FD, 5512-12, 5512-13, 5512-14, 5512-15, 5512-16, 5512-17, 5512-17-FD, 5512-19, 5512-20, 5512-21, 5512-23, 5512-24, 5512-24-FD, 5512-26, 5512-27, 5512-28, 5512-28-FD, 5512-30, 5512-31, 5512-32, 5512-33, 5512-34, 5512-35, 5512-36, 5512-37, 5512-38, 5512-39, 5512-40, 5512-41, 5512-45-FB, 5512-46-FB, and 5512-47-FB. This analyte was not found in the samples at or above the reporting limit however, the reporting limit is an estimate (UJ-coded) due to the initial instrument calibration not meeting specifications. The actual reporting limit may be higher than the reported value.

Acetone was J-coded in sample 5512-22. The analyte was positively identified in the sample however the quantitation is an estimate (J-coded) due to the initial instrument

Analysis	Comments About Results For This Analysis
----------	--

calibration not meeting specifications. The concentration may be higher than the reported value.

The % Difference exceeded the $\pm 20\%$ limits for Acetone (30.1%), 2-Butanone (34.8%), Cyclohexane (21.8%) and 2-Hexanone (30.7%) were biased low and were UJ-coded in samples 5512-1, 5512-2, 5512-3, 5512-4, 5512-5, 5512-6, 5512-7, 5512-8, 5512-9, 5512-10, 5512-10-FD, and 5512-45-FB. The analytes were not found in the samples at or above the reporting limit however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for these analytes may be higher than the reported value.

Carbon Tetrachloride (-23.8%) was biased high and was J-coded in samples 5512-1, 5512-3, 5512-5, 5512-6, 5512-8, 5512-10, and 5512-10-FD. Although the analytes in question have been positively identified in the samples, the quantitation is an estimate (J-coded) due to the continuing calibration check not meeting accuracy specifications. The actual concentration may be lower than the reported value.

The % Difference exceeded the $\pm 20\%$ limits for Cyclohexane (23.9%) was biased low and was UJ-coded in samples 5512-12, 5512-13, 5512-14, 5512-15, 5512-16, 5512-17, 5512-17-FD, 5512-19, 5512-20, 5512-21, 5512-22, and 5512-46-FB. The analyte was not found in the samples at or above the reporting limit however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for this analyte may be higher than the reported value.

Carbon Tetrachloride (-26.6%) was biased high and was J-coded in samples 5512-16, 5512-17, and 5512-17-FD. Although the analytes in question have been positively identified in the samples, the quantitation is an estimate (J-coded) due to the continuing calibration check not meeting accuracy specifications. The actual concentration may be lower than the reported value.

Sample 5512-16 was analyzed immediately after sample 5512-15 which had a high concentration of Carbon Tetrachloride. Some carryover may have occurred.

The % Difference exceeded the $\pm 20\%$ limits for 2-Butanone (24.6%) was biased low and was UJ-coded in samples 5512-23, 5512-24, 5512-24-FD, 5512-26, 5512-27, 5512-28, 5512-28-FD, 5512-30, 5512-31, 5512-32, 5512-33, 5512-34, 5512-35, 5512-36, 5512-37, 5512-38, 5512-39, 5512-40, 5512-41, and 5512-47-FB. The analyte was not found in the samples at or above the reporting limit however, the reporting limit is an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limit for this analyte may be higher than the reported value.

Carbon Tetrachloride (-34.1%) was biased high and was J-coded in samples 5512-12, 5512-14, 5512-15, 5512-28, 5512-28-FD, and 5512-34. Although the analytes in question have been positively identified in the samples, the quantitation is an estimate (J-coded) due to the continuing calibration check not meeting accuracy specifications. The actual concentration may be lower than the reported value.

Carbon Tetrachloride (124%, 79 - 118%) was high and was J-coded in samples 5512-1, 5512-3, 5512-5, 5512-6, 5512-8, 5512-10, and 5512-10-FD. The analytes were positively

Analysis	Comments About Results For This Analysis
----------	--

identified in the samples however the quantitation is an estimate (J-coded) due to the high recovery of the analytes in the laboratory control sample. The concentration may be lower than the reported value.

Carbon Tetrachloride (127%, 79 - 118%) was high and was J-coded in samples 5512-16, 5512-17, and 5512-17-FD. The analytes were positively identified in the samples however the quantitation is an estimate (J-coded) due to the high recovery of the analytes in the laboratory control sample. The concentration may be lower than the reported value.

Carbon Tetrachloride (134%, 79 - 118%) was high and was J-coded in samples 5512-12, 5512-14, 5512-15, 5512-28, 5512-28-FD, and 5512-34. The analytes were positively identified in the samples however the quantitation is an estimate (J-coded) due to the high recovery of the analytes in the laboratory control sample. The concentration may be lower than the reported value.

Acetone and 1,4-Dichlorobenzene were J-coded in sample 5512-22. Although the analytes in question have been positively identified in the sample, the quantitation is an estimate (J-coded) due to low internal standard response. The actual concentration for these analytes may be lower than the reported value.

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.515	0.515	0.728	0.348
1 pH of Water by Field Measurement					
pH	SU	6.96	7.25	6.91	7.17
1 Temperature of Water by Field Measurement					
Temperature	Deg C	7.16	17.91	24.21	16.61
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	70.5	2.53	5.82	43.9
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	3.17	430	2.06	43.9
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	21 J	1.0 U	8.1 J	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.418	0.406	0.554	0.355
1 pH of Water by Field Measurement					
pH	SU	6.99	6.87	6.72	6.96
1 Temperature of Water by Field Measurement					
Temperature	Deg C	13.98	13.02	13.78	14.29
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.54	6.29	8.53	5.39
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	31.9	22.5	10.7	27.5
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	19 J	1.8 J	1.0 U	1.0 J
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	9-__	10-__	10-FD	12-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.693	0.430	0.430	0.659
1 pH of Water by Field Measurement					
pH	SU	6.75	7.05	7.05	6.78
1 Temperature of Water by Field Measurement					
Temperature	Deg C	15.89	23.40	23.46	20.69
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.83	6.18	6.18	7.11
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	4.7	1.86	1.86	2.06
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	52 J	51 J	200 J
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.2
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	9-__	10-__	10-FD	12-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.881	0.555	0.589	0.426
1 pH of Water by Field Measurement					
pH	SU	6.87	6.90	6.77	6.94
1 Temperature of Water by Field Measurement					
Temperature	Deg C	17.03	18.52	22.64	15.88
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.56	6.46	6.12	6.30
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	1.28	18.0	592	57.7
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	320 J	770 J	74 J
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.2	2.9	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	13-__	14-__	15-__	16-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	17-__	17-FD	19-__	20-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.513	0.513	0.831	0.580
1 pH of Water by Field Measurement					
pH	SU	6.88	6.88	6.83	6.60
1 Temperature of Water by Field Measurement					
Temperature	Deg C	15.43	15.43	15.52	16.74
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.50	7.50	8.51	7.48
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	54.6	54.6	1.80	0.50
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	42 J	42 J	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	17-__	17-FD	19-__	20-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	21-__	22-__	23-__	24-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.405		0.580	0.668
1 pH of Water by Field Measurement					
pH	SU	6.99		7.04	7.24
1 Temperature of Water by Field Measurement					
Temperature	Deg C	17.09		18.65	19.17
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.49		8.95	6.59
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.71		9.70	53.1
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.2 J	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	14 J	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	21-__	22-__	23-__	24-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	24-FD	26-__	27-__	28-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.668	0.423	0.905	0.566
1 pH of Water by Field Measurement					
pH	SU	7.24	6.72	6.80	6.76
1 Temperature of Water by Field Measurement					
Temperature	Deg C	19.17	12.19	13.99	14.99
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.59	7.08	8.12	7.78
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	53.1	38.2	17.5	3.05
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	8.9 J
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	24-FD	26-__	27-__	28-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	28-FD	30-__	31-__	32-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.566	0.911	0.767	0.762
1 pH of Water by Field Measurement					
pH	SU	6.76	6.73	6.57	6.78
1 Temperature of Water by Field Measurement					
Temperature	Deg C	14.99	15.53	15.66	12.94
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.78	8.50	6.20	8.59
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	3.05	4.12	1.87	0.45
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	9.0 J	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	28-FD	30-__	31-__	32-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.291	0.607	0.780	0.396
1 pH of Water by Field Measurement					
pH	SU	7.04	6.86	6.91	6.89
1 Temperature of Water by Field Measurement					
Temperature	Deg C	13.59	15.12	13.03	15.07
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.91	7.32	8.21	5.40
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	1.09	3.02	0.29	0.86
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	94 J	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	4.4
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	37-__	38-__	39-__	40-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.308	0.924	0.788	0.869
1 pH of Water by Field Measurement					
pH	SU	7.09	6.68	6.91	6.91
1 Temperature of Water by Field Measurement					
Temperature	Deg C	16.62	18.51	17.98	16.40
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	3.71	6.34	7.04	8.20
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.46	1.11	0.94	11.2
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	37-__	38-__	39-__	40-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	41-__	45-FB	46-FB	47-FB
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.554			
1 pH of Water by Field Measurement					
pH	SU	6.60			
1 Temperature of Water by Field Measurement					
Temperature	Deg C	17.75			
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.48			
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	4.59			
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5512
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

11/03/2011

Analysis/ Analyte	Units	41-__	45-FB	46-FB	47-FB
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

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

Date: __/__/____

Subject: Data Disposition/Sample Release for ASR #: 5512

Project ID: BZA72Z02

Project Description: Garvey Elevator - RI/FS sampling

From: Brian Zurbuchen
SUPR/IANE

To: Kaye Dollmann
ENSV/CARB

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes for Data Disposition.

I understand all samples will be disposed upon receipt of this form, unless samples are requested to be held. If I do not return this form all samples will be disposed of on _____.

- ☐ "RELEASED" - Read-only to all Region 7 employees and contractors that have R7LIMS "Customer" account. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Project Manager Accessible" - Available on the LAN in R7LIMS for my use only. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Archived" - THIS DATA IS OF A SENSITIVE NATURE. Any future reports must be requested through the laboratory. All samples may be disposed of upon receipt of the form if not requested to be held.

-
- ☐ Hold Samples - I have determined that the samples need to be held until _____, after which time they will be disposed of in accordance with applicable regulations.
The reason for the hold is:

☐ Samples are associated with a legal proceeding.

☐ Question/Concern with data - possible reanalysis requested.

☐ Other: _____

MARCH 2011

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

Date: 04/15/2011

Subject: Transmittal of Sample Analysis Results for ASR #: 5282

Project ID: BZA72Z01

Project Description: Garvey Elevator - RI/FS sampling

From: Michael F. Davis, Chief
Chemical Analysis and Response Branch, Environmental Services Division

To: Brian Zurbuchen
SUPR/IANE

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

Project Manager: Brian Zurbuchen

Org: SUPR/IANE

Phone: 913-551-7101

Project ID: BZA72Z01

QAPP Number: SDMS 40322811

Project Desc: Garvey Elevator - RI/FS sampling

Location: Hastings

State: Nebraska

Program: Superfund

Site Name: GARVEY ELEVATOR - ON-SITE SOILS AND
GROUNDWATERSite ID: A72Z Site OU: 01
GPRA PRC: 302DD2C

Purpose: Site Characterization

Quarterly monitoring well sampling - OU #01.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of
sample for quality control purpose.Units: Specific units in which results are
reported.

___ = Field Sample

FB = Field Blank

FD = Field Duplicate

Deg C = Degrees Celsius

NTU = Nephelometric Turbidity Units

SU = Standard Units (pH)

mg/L = Milligrams per Liter

ug/L = Micrograms per Liter

umhos/cm = Micromhos per Centimeter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information
on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.

J = The identification of the analyte is acceptable; the reported value is an
estimate.

U = The analyte was not detected at or above the reporting limit.

UJ = The analyte was not detected at or above the reporting limit. The reporting
limit is an estimate.

ASR Number: 5282

Sample Information Summary

04/15/2011

Project ID: BZA72Z01

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 - ___		Water	MW-31C		03/23/2011	10:38			03/25/2011
2 - ___		Water	MW-31A		03/23/2011	11:31			03/25/2011
3 - ___		Water	MW-30E		03/23/2011	13:12			03/25/2011
4 - ___		Water	MW-30D		03/23/2011	13:53			03/25/2011
5 - ___		Water	MW-30C		03/23/2011	14:48			03/25/2011
6 - ___		Water	MW-30A		03/23/2011	15:24			03/25/2011
7 - FB		Water	LDL VOA Trip Blank sample		03/23/2011	15:20			03/25/2011
8 - ___		Water	MW-19C		03/23/2011	16:34			03/25/2011
9 - ___		Water	MW-19A		03/23/2011	17:17			03/25/2011
10 - ___		Water	MW-20E		03/24/2011	08:41			03/25/2011
11 - ___		Water	MW-20D		03/24/2011	09:12			03/25/2011
12 - ___		Water	MW-20C		03/24/2011	10:13			03/25/2011
12 - FD		Water	MW-20C/Field Duplicate of sample 12		03/24/2011	10:13			03/25/2011
14 - ___		Water	MW-20A		03/24/2011	11:19			03/25/2011
15 - ___		Water	MW-7B		03/24/2011	14:09			03/25/2011
16 - ___		Water	MW-7A		03/24/2011	15:03			03/25/2011
17 - ___		Water	MW-9A		03/24/2011	17:59			03/25/2011
18 - ___		Water	MW-8A		03/25/2011	08:48			03/29/2011
19 - ___		Water	MW-2A		03/25/2011	10:20			03/29/2011
20 - ___		Water	MW-1A		03/25/2011	12:37			03/29/2011
21 - ___		Water	MW-5A		03/25/2011	13:56			03/29/2011
22 - ___		Water	MW-5B		03/25/2011	15:00			03/29/2011
22 - FD		Water	MW-5B/Field Duplicate of sample 22		03/25/2011	15:00			03/29/2011
24 - ___		Water	MW-5D		03/25/2011	16:12			03/29/2011
25 - ___		Water	MW-13E		03/26/2011	10:45			03/29/2011
26 - ___		Water	MW-13C		03/26/2011	12:05			03/29/2011
26 - FD		Water	MW-13C/Field Duplicate of sample 26		03/26/2011	12:05			03/29/2011
28 - ___		Water	MW-6D		03/26/2011	14:37			03/29/2011
29 - ___		Water	MW-6A		03/26/2011	15:48			03/29/2011
30 - ___		Water	MW-6E		03/26/2011	16:41			03/29/2011
31 - ___		Water	MW-3B		03/27/2011	08:32			03/29/2011
32 - ___		Water	MW-3A		03/27/2011	09:26			03/29/2011
33 - ___		Water	MW-3E		03/27/2011	10:26			03/29/2011
34 - ___		Water	MW-3D		03/27/2011	11:26			03/29/2011
35 - ___		Water	Rinsate Blank sample		03/27/2011	12:35			03/29/2011
36 - ___		Water	MW-4B		03/27/2011	13:29			03/29/2011
36 - FD		Water	MW-4B/Field Duplicate of sample 36		03/27/2011	13:29			03/29/2011
38 - ___		Water	MW-4A		03/27/2011	14:42			03/29/2011
43 - FB		Water	LDL VOA Trip Blank sample		03/25/2011	09:55			03/29/2011

US EPA ARCHIVE DOCUMENT

Analysis **Comments About Results For This Analysis**

1 Conductivity by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 8-__
9-__ 10-__ 11-__ 12-__ 12-FD 14-__ 15-__
16-__ 17-__ 18-__ 19-__ 20-__ 21-__ 22-__
22-FD 24-__ 25-__ 26-__ 26-FD 28-__ 29-__
30-__ 31-__ 32-__ 33-__ 34-__ 36-__ 36-FD
38-__

Comments:

(N/A)

1 pH of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 8-__
9-__ 10-__ 11-__ 12-__ 12-FD 14-__ 15-__
16-__ 17-__ 18-__ 19-__ 20-__ 21-__ 22-__
22-FD 24-__ 25-__ 26-__ 26-FD 28-__ 29-__
30-__ 31-__ 32-__ 33-__ 34-__ 36-__ 36-FD
38-__

Comments:

(N/A)

1 Temperature of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 8-__
9-__ 10-__ 11-__ 12-__ 12-FD 14-__ 15-__
16-__ 17-__ 18-__ 19-__ 20-__ 21-__ 22-__
22-FD 24-__ 25-__ 26-__ 26-FD 28-__ 29-__
30-__ 31-__ 32-__ 33-__ 34-__ 36-__ 36-FD
38-__

Comments:

(N/A)

1 Total Dissolved Oxygen in Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 8-__

Analysis Comments About Results For This Analysis

Samples: 9-___ 10-___ 11-___ 12-___ 12-FD 14-___ 15-___
 16-___ 17-___ 18-___ 19-___ 20-___ 21-___ 22-___
 22-FD 24-___ 25-___ 26-___ 26-FD 28-___ 29-___
 30-___ 31-___ 32-___ 33-___ 34-___ 36-___ 36-FD
 38-___

Comments:
 (N/A)

1 Turbidity of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 8-___
 9-___ 10-___ 11-___ 12-___ 12-FD 14-___ 15-___
 16-___ 17-___ 18-___ 19-___ 20-___ 21-___ 22-___
 22-FD 24-___ 25-___ 26-___ 26-FD 28-___ 29-___
 30-___ 31-___ 32-___ 33-___ 34-___ 36-___ 36-FD
 38-___

Comments:
 (N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Contract Lab Program (Out-Source)

Method: CLP Statement of Work

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-FB
 8-___ 9-___ 10-___ 11-___ 12-___ 12-FD 14-___
 15-___ 16-___ 17-___ 18-___ 19-___ 20-___ 21-___
 22-___ 22-FD 24-___ 25-___ 26-___ 26-FD 28-___
 29-___ 30-___ 31-___ 32-___ 33-___ 34-___ 35-___
 36-___ 36-FD 38-___ 43-FB

Comments:

The %D for vinyl chloride (-30.1% vs. $\pm 30\%$) was below control limits on the opening CC of 3/28/11. Vinyl chloride was UJ-coded in samples -2, -3, -4, -5, -7FB, -8, -9, -10, -12, -12FD, -14, -15, -16 and -17. This analyte was not found in the samples at or above the reporting limits; however, the reporting limits are an estimate (UJ-coded) due to the continuing calibration check not meeting accuracy specifications. The actual reporting limits for this analyte may be higher than the reported values.

Low recoveries were reported for 2-butanone-d5 (control limits = 49% - 155%) in samples -1 (30%), -2 (40%), -4 (34%), -11 (33%) and -26 (35%); and for trans-1,3-dichloropropene-d4 (control limits = 73% - 121%) in samples -12 (71%), -12FD (68%) and -15 (70%).

2-Butanone and acetone were UJ-coded in samples -1, -2, -11 and -26. Acetone was UJ-coded in sample -4. cis-1,3-Dichloropropene, trans-1,3-dichloropropene and 1,1,2-

Analysis	Comments About Results For This Analysis
----------	--

trichloroethane were UJ-coded in samples -12, -12FD and -15. These analytes were not found in the sample at or above the reporting limits; however, the reporting limits are an estimate (UJ-coded) due to low recovery of the surrogate analyte. The actual reporting limits for these analytes may be higher than the reported values.

2-Butanone was J-coded in sample -4. Although the analyte in question has been positively identified in the sample, the quantitation is an estimate (J-coded) due to low recovery of a surrogate analyte in this sample. The actual concentration for this analyte may be higher than the reported value.

Slight chloroform contamination was found in the laboratory method blanks at levels below the CRQL. Only samples containing these analytes at levels greater than ten times the contamination level of the method blank are reported without being qualified. Chloroform was U-coded in samples -14, -22, -22FD, -26 and -26FD.

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.525	0.717	0.555	0.610
1 pH of Water by Field Measurement					
pH	SU	6.79	6.61	7.53	6.24
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.65	9.92	11.39	11.54
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.50	0.74	18.67	3.40
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 UJ	5.0 UJ	5.0 U	5.0 UJ
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 UJ	5.0 UJ	5.0 U	6.3 J
Carbon Disulfide	ug/L	0.50 U	0.72	0.62	0.93
Carbon Tetrachloride	ug/L	0.50 U	3.3	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	15	1.7	4.2
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.61
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5282
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/15/2011

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
Methylene Chloride	ug/L	0.50 U	0.55	0.50 U	3.2
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	5-__	6-__	7-FB	8-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.572	0.594		0.621
1 pH of Water by Field Measurement					
pH	SU	7.70	6.94		6.94
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.68	11.00		11.02
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	16.95	6.82		8.13
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	9.9		0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.80	5.7	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	520	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	1.1	7.9	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5282
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/15/2011

Analysis/ Analyte	Units	5-__	6-__	7-FB	8-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.845	0.352	0.349	0.346
1 pH of Water by Field Measurement					
pH	SU	7.22	7.05	6.09	6.57
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.51	9.82	9.41	7.81
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.25	10.47	0.45	8.70
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	6.2	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 UJ	5.0 U
Carbon Disulfide	ug/L	0.67	0.50 U	0.58	0.50 U
Carbon Tetrachloride	ug/L	77	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	4.2	0.50 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 UJ
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 UJ
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5282
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/15/2011

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.69	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 UJ
Trichloroethene	ug/L	6.7	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	12-FD	14-__	15-__	16-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.346	0.470	0.536	0.517
1 pH of Water by Field Measurement					
pH	SU	6.57	7.60	6.79	6.63
1 Temperature of Water by Field Measurement					
Temperature	Deg C	7.81	7.60	11.69	11.66
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.70	0.54	1.78	9.11
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	6.7	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.84	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	1.0 U	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 UJ	0.50 U	0.50 UJ	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 UJ	0.50 U	0.50 UJ	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	2.9	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5282
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/15/2011

Analysis/ Analyte	Units	12-FD	14-__	15-__	16-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 UJ	0.50 U	0.50 UJ	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.574	0.844	0.504	0.547
1 pH of Water by Field Measurement					
pH	SU	6.72	6.80	6.47	6.72
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.25	9.93	9.63	11.16
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.99	8.59	8.39	8.75
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	29.3
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.81	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5282
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/15/2011

Analysis/ Analyte	Units	17-__	18-__	19-__	20-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	21-__	22-__	22-FD	24-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.601	0.608	0.608	0.385
1 pH of Water by Field Measurement					
pH	SU	6.86	6.82	6.82	6.87
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.50	10.36	10.36	9.79
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	9.69	9.04	9.04	9.73
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	3.9	0.0	0.0	1.8
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	6.6	100	110	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.63 U	0.68 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5282
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/15/2011

Analysis/ Analyte	Units	21-__	22-__	22-FD	24-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	25-__	26-__	26-FD	28-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.360	0.453	0.453	0.379
1 pH of Water by Field Measurement					
pH	SU	7.14	7.01	7.01	6.86
1 Temperature of Water by Field Measurement					
Temperature	Deg C	8.35	9.52	9.52	9.11
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.54	15.26	15.26	8.35
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	4.5	0.0	0.0	3.8
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 UJ	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	240	220	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	1.6 U	1.7 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5282
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/15/2011

Analysis/ Analyte	Units	25-__	26-__	26-FD	28-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	29-__	30-__	31-__	32-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.601	0.219	0.646	0.603
1 pH of Water by Field Measurement					
pH	SU	6.79	7.15	6.66	6.75
1 Temperature of Water by Field Measurement					
Temperature	Deg C	8.54	9.00	9.99	5.47
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.13	9.05	3.64	9.79
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.1	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	8.4	0.50 U	630	1.1
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	2.0 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5282
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/15/2011

Analysis/ Analyte	Units	29-__	30-__	31-__	32-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.479	0.473		0.624
1 pH of Water by Field Measurement					
pH	SU	7.64	6.83		6.90
1 Temperature of Water by Field Measurement					
Temperature	Deg C	8.17	9.92		10.71
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	13.18	8.62		11.79
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0		0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	10	5.0 U	5.0	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	0.50 U	0.50 U	0.50 U	1400
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	0.50 U	0.50 U	0.50 U	3.7
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	1.1	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

ASR Number: 5282
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/15/2011

Analysis/ Analyte	Units	33-__	34-__	35-__	36-__
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U	0.50 U

Analysis/ Analyte	Units	36-FD	38-__	43-FB
1 Conductivity by Field Measurement				
Conductivity	umhos/cm	0.624	0.609	
1 pH of Water by Field Measurement				
pH	SU	6.90	6.96	
1 Temperature of Water by Field Measurement				
Temperature	Deg C	10.71	9.08	
1 Total Dissolved Oxygen in Water by Field Measurement				
Dissolved Oxygen	mg/L	11.79	4.51	
1 Turbidity of Water by Field Measurement				
Turbidity	NTU	0.0	0.0	
1 VOCs in Water by GC/MS for Low Detection Limits				
Acetone	ug/L	5.0 U	5.0 U	5.0 U
Benzene	ug/L	0.50 U	0.50 U	0.50 U
Bromochloromethane	ug/L	0.50 U	0.50 U	0.50 U
Bromodichloromethane	ug/L	0.50 U	0.50 U	0.50 U
Bromoform	ug/L	0.50 U	0.50 U	0.50 U
Bromomethane	ug/L	0.50 U	0.50 U	0.50 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	0.50 U	0.50 U	0.50 U
Carbon Tetrachloride	ug/L	1400	12	0.50 U
Chlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
Chloroethane	ug/L	0.50 U	0.50 U	0.50 U
Chloroform	ug/L	3.7	0.50 U	0.50 U
Chloromethane	ug/L	0.50 U	0.50 U	0.50 U
Cyclohexane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	0.50 U	0.50 U	0.50 U
Dibromochloromethane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dibromoethane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
Dichlorodifluoromethane	ug/L	0.50 U	0.50 U	0.50 U
1,1-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	ug/L	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U
cis-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	ug/L	0.50 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.50 U	0.50 U	0.50 U
cis-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	ug/L	0.50 U	0.50 U	0.50 U
Ethyl Benzene	ug/L	0.50 U	0.50 U	0.50 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	0.50 U	0.50 U	0.50 U
Methyl Acetate	ug/L	0.50 U	0.50 U	0.50 U
Methyl tert-butyl ether	ug/L	0.50 U	0.50 U	0.50 U
Methylcyclohexane	ug/L	0.50 U	0.50 U	0.50 U

ASR Number: 5282
Project ID: BZA72Z01

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/15/2011

Analysis/ Analyte	Units	36-FD	38-__	43-FB
Methylene Chloride	ug/L	0.50 U	0.50 U	0.50 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U
Styrene	ug/L	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	ug/L	0.50 U	0.50 U	0.50 U
Tetrachloroethene	ug/L	0.50 U	0.50 U	0.50 U
Toluene	ug/L	0.50 U	0.50 U	0.50 U
1,2,3-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,2,4-Trichlorobenzene	ug/L	0.50 U	0.50 U	0.50 U
1,1,1-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	ug/L	0.50 U	0.50 U	0.50 U
Trichloroethene	ug/L	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	ug/L	0.50 U	0.50 U	0.50 U
1,1,2-Trichlorotrifluoroethane	ug/L	0.50 U	0.50 U	0.50 U
Vinyl Chloride	ug/L	0.50 U	0.50 U	0.50 U
m and/or p-Xylene	ug/L	0.50 U	0.50 U	0.50 U
o-Xylene	ug/L	0.50 U	0.50 U	0.50 U

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

Date: __/__/____

Subject: Data Disposition/Sample Release for ASR #: 5282

Project ID: BZA72Z01

Project Description: Garvey Elevator - RI/FS sampling

From: Brian Zurbuchen
SUPR/IANE

To: Kaye Dollmann
ENSV/CARB

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes for Data Disposition.

I understand all samples will be disposed upon receipt of this form, unless samples are requested to be held. If I do not return this form all samples will be disposed of on _____.

- ☐ "RELEASED" - Read-only to all Region 7 employees and contractors that have R7LIMS "Customer" account. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Project Manager Accessible" - Available on the LAN in R7LIMS for my use only. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Archived" - THIS DATA IS OF A SENSITIVE NATURE. Any future reports must be requested through the laboratory. All samples may be disposed of upon receipt of the form if not requested to be held.

-
- ☐ Hold Samples - I have determined that the samples need to be held until _____, after which time they will be disposed of in accordance with applicable regulations.
The reason for the hold is:

☐ Samples are associated with a legal proceeding.

☐ Question/Concern with data - possible reanalysis requested.

☐ Other: _____

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

Date: 04/25/2011

Subject: Transmittal of Sample Analysis Results for ASR #: 5281

Project ID: BZA72Z02

Project Description: Garvey Elevator - RI/FS sampling

From: Michael F. Davis, Chief
Chemical Analysis and Response Branch, Environmental Services Division

To: Brian Zurbuchen
SUPR/IANE

Enclosed are the analytical data for the above-referenced Analytical Services Request (ASR) and Project. The Regional Laboratory has reviewed and verified the results in accordance with procedures described in our Quality Manual (QM). In addition to all of the analytical results, this transmittal contains pertinent information that may have influenced the reported results and documents any deviations from the established requirements of the QM.

Please contact us within 14 days of receipt of this package if you determine there is a need for any changes. Please complete the enclosed Customer Satisfaction Survey and Data Disposition/Sample Release memo for this ASR as soon as possible. The process of disposing of the samples for this ASR will be initiated 30 days from the date of this transmittal unless an alternate release date is specified on the Data Disposition/Sample Release memo.

If you have any questions or concerns relating to this data package, contact our customer service line at 913-551-5295.

Enclosures

cc: Analytical Data File.

Project Manager: Brian Zurbuchen

Org: SUPR/IANE

Phone: 913-551-7101

Project ID: BZA72Z02

QAPP Number: SDMS 40322811

Project Desc: Garvey Elevator - RI/FS sampling

Location: Hastings

State: Nebraska

Program: Superfund

Site Name: GARVEY ELEVATOR - OFF-SITE GROUNDWATER

Site ID: A72Z Site OU: 02

Purpose: Site Characterization

GPRA PRC: 302DD2C

Quarterly monitoring well sampling - OU #02.

Explanation of Codes, Units and Qualifiers used on this report

Sample QC Codes: QC Codes identify the type of sample for quality control purpose.

Units: Specific units in which results are reported.

___ = Field Sample

FB = Field Blank

FD = Field Duplicate

Deg C = Degrees Celsius

NTU = Nephelometric Turbidity Units

SU = Standard Units (pH)

mg/L = Milligrams per Liter

ug/L = Micrograms per Liter

umhos/cm = Micromhos per Centimeter

Data Qualifiers: Specific codes used in conjunction with data values to provide additional information on the quality of reported results, or used to explain the absence of a specific value.

(Blank) = Values have been reviewed and found acceptable for use.

U = The analyte was not detected at or above the reporting limit.

UJ = The analyte was not detected at or above the reporting limit. The reporting limit is an estimate.

ASR Number: 5281

Sample Information Summary

04/25/2011

Project ID: BZA72Z02

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
1 - ___		Water	MW-17C		03/23/2011	10:35			03/25/2011
2 - ___		Water	MW-17D		03/23/2011	11:25			03/25/2011
3 - ___		Water	MW-17A		03/23/2011	12:10			03/25/2011
4 - ___		Water	MW-46D2		03/23/2011	13:41			03/25/2011
5 - ___		Water	MW-46D1		03/23/2011	14:40			03/25/2011
6 - ___		Water	MW-41D2		03/23/2011	15:57			03/25/2011
7 - ___		Water	MW-41D1		03/23/2011	17:35			03/25/2011
8 - ___		Water	MW-104D		03/24/2011	08:50			03/25/2011
9 - ___		Water	MW-104C		03/24/2011	09:25			03/25/2011
10 - ___		Water	MW-104A		03/24/2011	10:00			03/25/2011
11 - ___		Water	MW-16A		03/24/2011	11:35			03/25/2011
12 - ___		Water	MW-16C		03/24/2011	12:25			03/25/2011
12 - FD		Water	MW-16C/Field Duplicate of sample 12		03/24/2011	12:25			03/25/2011
14 - ___		Water	MW-18D		03/24/2011	13:45			03/25/2011
15 - ___		Water	MW-18A		03/24/2011	14:55			03/25/2011
16 - ___		Water	MW-18C		03/24/2011	16:52			03/25/2011
17 - ___		Water	MW-44D		03/25/2011	11:35			03/29/2011
18 - ___		Water	MW-44E		03/25/2011	10:55			03/29/2011
20 - ___		Water	MW-44D		03/25/2011	14:25			03/29/2011
21 - ___		Water	MW-43E		03/25/2011	15:30			03/29/2011
22 - ___		Water	MW-11A		03/25/2011	16:45			03/29/2011
24 - ___		Water	MW-106A		03/26/2011	11:00			03/29/2011
25 - ___		Water	MW-106C		03/26/2011	11:50			03/29/2011
26 - ___		Water	MW-106D		03/26/2011	12:35			03/29/2011
27 - ___		Water	MW-42D		03/26/2011	14:25			03/29/2011
28 - ___		Water	MW-42E		03/26/2011	15:05			03/29/2011
28 - FD		Water	MW-42E/Field Duplicate of sample 28		03/26/2011	15:05			03/29/2011
30 - ___		Water	MW-14A		03/26/2011	16:25			03/29/2011
31 - ___		Water	MW-105D		03/27/2011	10:40			03/29/2011
31 - FD		Water	MW-105D/Field Duplicate of sample 31		03/27/2011	10:40			03/29/2011
33 - ___		Water	MW-105A		03/27/2011	09:50			03/29/2011
34 - ___		Water	MW-105C		03/27/2011	11:25			03/29/2011
35 - ___		Water	MW-10B		03/27/2011	15:45			03/29/2011
36 - ___		Water	MW-10A		03/27/2011	16:48			03/29/2011
37 - ___		Water	MW-12C		03/27/2011	12:55			03/29/2011
38 - ___		Water	MW-12A		03/27/2011	13:50			03/29/2011
39 - ___		Water	MW-12D		03/27/2011	14:35			03/29/2011
40 - ___		Water	MW-45C		03/27/2011	15:50			03/29/2011
40 - FD		Water	MW-45C/Field Duplicate of sample 40		03/27/2011	15:50			03/29/2011
42 - ___		Water	MW-45D		03/27/2011	16:30			03/29/2011
43 - ___		Water	Rinsate Blank sample		03/27/2011	16:15			03/29/2011
44 - ___		Water	Rolls Old Well		03/28/2011	09:25			03/29/2011

ASR Number: 5281

Sample Information Summary

04/25/2011

Project ID: BZA72Z02

Project Desc: Garvey Elevator - RI/FS sampling

Sample No	QC Code	Matrix	Location Description	External Sample No	Start Date	Start Time	End Date	End Time	Receipt Date
45 - ___		Water	Rolls New Well		03/28/2011	09:30			03/29/2011
48 - FB		Water	LDL VOA Trip Blank sample		03/23/2011	11:45			03/25/2011
49 - FB		Water	LDL VOA Trip Blank sample		03/25/2011	11:30			03/29/2011
50 - FB		Water	LDL VOA Trip Blank sample		03/28/2011	08:45			03/29/2011

Analysis **Comments About Results For This Analysis**

1 Conductivity by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 11-__ 12-__ 12-FD 14-__
15-__ 16-__ 17-__ 18-__ 20-__ 21-__ 22-__
24-__ 25-__ 26-__ 27-__ 28-__ 28-FD 30-__
31-__ 31-FD 33-__ 34-__ 35-__ 36-__ 37-__
38-__ 39-__ 40-__ 40-FD 42-__

Comments:
(N/A)

1 pH of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 11-__ 12-__ 12-FD 14-__
15-__ 16-__ 17-__ 18-__ 20-__ 21-__ 22-__
24-__ 25-__ 26-__ 27-__ 28-__ 28-FD 30-__
31-__ 31-FD 33-__ 34-__ 35-__ 36-__ 38-__
39-__ 40-__ 40-FD 42-__

Comments:
(N/A)

1 Temperature of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__
8-__ 9-__ 10-__ 11-__ 12-__ 12-FD 14-__
15-__ 16-__ 17-__ 18-__ 20-__ 21-__ 22-__
24-__ 25-__ 26-__ 27-__ 28-__ 28-FD 30-__
31-__ 31-FD 33-__ 34-__ 35-__ 36-__ 37-__
38-__ 39-__ 40-__ 40-FD 42-__

Comments:
(N/A)

1 Total Dissolved Oxygen in Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-__ 2-__ 3-__ 4-__ 5-__ 6-__ 7-__

Analysis Comments About Results For This Analysis

Samples: 8-___ 9-___ 10-___ 11-___ 12-___ 12-FD 14-___
 15-___ 16-___ 17-___ 18-___ 20-___ 21-___ 22-___
 24-___ 25-___ 26-___ 27-___ 28-___ 28-FD 30-___
 31-___ 31-FD 33-___ 34-___ 35-___ 36-___ 37-___
 38-___ 39-___ 40-___ 40-FD 42-___

Comments:
 (N/A)

1 Turbidity of Water by Field Measurement

Lab: (Field Measurement)

Method: Measurement of field parameter

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 8-___ 9-___ 10-___ 11-___ 12-___ 12-FD 14-___
 15-___ 16-___ 17-___ 18-___ 20-___ 21-___ 22-___
 24-___ 25-___ 26-___ 27-___ 28-___ 28-FD 30-___
 31-___ 31-FD 33-___ 34-___ 35-___ 36-___ 37-___
 38-___ 39-___ 40-___ 40-FD 42-___

Comments:
 (N/A)

1 VOCs in Water by GC/MS for Low Detection Limits

Lab: Region 7 ESAT Contract Lab (In-House)

Method: EPA Region 7 RLAB Method 3230.13D

Samples: 1-___ 2-___ 3-___ 4-___ 5-___ 6-___ 7-___
 8-___ 9-___ 10-___ 11-___ 12-___ 12-FD 14-___
 15-___ 16-___ 17-___ 18-___ 20-___ 21-___ 22-___
 24-___ 25-___ 26-___ 27-___ 28-___ 28-FD 30-___
 31-___ 31-FD 33-___ 34-___ 35-___ 36-___ 37-___
 38-___ 39-___ 40-___ 40-FD 42-___ 43-___ 44-___
 45-___ 48-FB 49-FB 50-FB

Comments:

Bromoform (+21.78%) and 1,2-Dibromo-3-Chloropropane (+29.31%) were UJ-coded in samples 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 12-FD, 14, 15, 16, 17, 18, 20, 21, 22, 24, 25, 26, 27, 28, 28-FD, 30, 31, 31-FD, 33, 34, 35, 36, 37, 38, 39, 40, 40-FD, 42, 43, 44, 45, 48-FB, 49-FB, and 50-FB. These analytes were not found in the samples at or above the reporting limit, however, the reporting limit is an estimate (UJ-coded) due to the initial instrument calibration curve not meeting linearity specifications. The actual reporting limit may be higher than the reported value.

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.670	0.296	0.687	0.515
1 pH of Water by Field Measurement					
pH	SU	6.20	6.49	6.24	6.33
1 Temperature of Water by Field Measurement					
Temperature	Deg C	11.28	11.72	12.59	11.16
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	8.53	4.24	8.16	7.51
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	69	1.0 U	1.0 U	170
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.1
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	1-__	2-__	3-__	4-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.603	0.358	0.698	0.352
1 pH of Water by Field Measurement					
pH	SU	6.13	6.35	6.16	5.90
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.93	11.50	10.27	10.11
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.61	5.62	8.18	3.34
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	30.2	12.7	2.8	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	530	2.2	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	3.8	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	5-__	6-__	7-__	8-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.442	0.771	0.967	0.833
1 pH of Water by Field Measurement					
pH	SU	6.13	6.31	6.04	5.97
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.68	9.20	10.71	10.47
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.09	6.74	6.25	6.45
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	24.1	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	9-__	10-__	11-__	12-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	12	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	12-FD	14-__	15-__	16-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.833	0.576	0.420	0.753
1 pH of Water by Field Measurement					
pH	SU	5.97	6.16	5.76	6.01
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.47	11.12	12.88	10.73
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.45	5.62	4.54	5.73
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	20.6	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	46	1.0 U	15
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	12-FD	14-__	15-__	16-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	17-__	18-__	20-__	21-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.412	0.344	0.599	0.435
1 pH of Water by Field Measurement					
pH	SU	6.20	6.34	6.10	6.21
1 Temperature of Water by Field Measurement					
Temperature	Deg C	9.99	9.69	8.11	7.58
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.56	4.92	6.48	6.31
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	80.8	7.1	8.2	14.9
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	18	1.0 U	1.0 U	1.4
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	17-__	18-__	20-__	21-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	22-__	24-__	25-__	26-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.677	0.927	0.599	0.402
1 pH of Water by Field Measurement					
pH	SU	5.97	5.95	5.94	6.20
1 Temperature of Water by Field Measurement					
Temperature	Deg C	9.60	10.65	7.42	8.41
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	4.70	8.03	7.15	5.50
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	22-__	24-__	25-__	26-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	27-__	28-__	28-FD	30-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.533	0.451	0.451	0.857
1 pH of Water by Field Measurement					
pH	SU	8.19	6.19	6.19	5.97
1 Temperature of Water by Field Measurement					
Temperature	Deg C	6.14	8.50	8.50	4.98
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	7.08	5.92	5.92	6.84
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	29	58	69	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	27-__	28-__	28-FD	30-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	31-__	31-FD	33-__	34-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.450	0.450	0.889	0.699
1 pH of Water by Field Measurement					
pH	SU	6.30	6.30	6.22	6.19
1 Temperature of Water by Field Measurement					
Temperature	Deg C	6.88	6.88	8.02	7.80
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	5.93	5.93	8.10	7.64
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	0.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	49	42	1.0 U	190
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.8
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	31-__	31-FD	33-__	34-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	35-__	36-__	37-__	38-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.586	0.625	0.650	0.987
1 pH of Water by Field Measurement					
pH	SU	6.93	6.95		6.18
1 Temperature of Water by Field Measurement					
Temperature	Deg C	10.55	9.95	7.22	8.09
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	9.32	8.65	7.55	7.80
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	0.0	5.0	0.0	0.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0	18	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	35-__	36-__	37-__	38-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	39-__	40-__	40-FD	42-__
1 Conductivity by Field Measurement					
Conductivity	umhos/cm	0.494	0.708	0.708	0.600
1 pH of Water by Field Measurement					
pH	SU	6.20	6.30	6.30	6.29
1 Temperature of Water by Field Measurement					
Temperature	Deg C	8.12	7.60	7.60	7.87
1 Total Dissolved Oxygen in Water by Field Measurement					
Dissolved Oxygen	mg/L	6.02	11.50	11.50	8.87
1 Turbidity of Water by Field Measurement					
Turbidity	NTU	7.0	18.0	18.0	1.0
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	39-__	40-__	40-FD	42-__
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	43-__	44-__	45-__	48-FB
1 VOCs in Water by GC/MS for Low Detection Limits					
Acetone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	52	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	43-__	44-__	45-__	48-FB
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U

Analysis/ Analyte	Units	49-FB	50-FB
1 VOCs in Water by GC/MS for Low Detection Limits			
Acetone	ug/L	5.0 U	5.0 U
Benzene	ug/L	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ
Bromomethane	ug/L	1.0 U	1.0 U
2-Butanone	ug/L	5.0 U	5.0 U
Carbon Disulfide	ug/L	1.0 U	1.0 U
Carbon Tetrachloride	ug/L	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U
Chloroform	ug/L	1.0 U	1.0 U
Chloromethane	ug/L	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	ug/L	5.0 UJ	5.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U
1,2-Dibromoethane	ug/L	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U
Dichlorodifluoromethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U
Ethyl Benzene	ug/L	1.0 U	1.0 U
2-Hexanone	ug/L	5.0 U	5.0 U
Isopropylbenzene	ug/L	1.0 U	1.0 U
Methyl Acetate	ug/L	5.0 U	5.0 U
Methyl tert-butyl ether	ug/L	1.0 U	1.0 U
Methylcyclohexane	ug/L	1.0 U	1.0 U
Methylene Chloride	ug/L	1.0 U	1.0 U
4-Methyl-2-Pentanone	ug/L	5.0 U	5.0 U
Naphthalene	ug/L	2.0 U	2.0 U
Styrene	ug/L	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U
1,2,3-Trichlorobenzene	ug/L	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U

ASR Number: 5281
Project ID: BZA72Z02

RLAB Approved Sample Analysis Results
Project Desc: Garvey Elevator - RI/FS sampling

04/25/2011

Analysis/ Analyte	Units	49-FB	50-FB
Trichloroethene	ug/L	1.0 U	1.0 U
Trichlorofluoromethane	ug/L	1.0 U	1.0 U
1,1,2-Trichlorotrifluoroethane	ug/L	1.0 U	1.0 U
Vinyl Chloride	ug/L	1.0 U	1.0 U
m and/or p-Xylene	ug/L	2.0 U	2.0 U
o-Xylene	ug/L	1.0 U	1.0 U

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

Date: __/__/____

Subject: Data Disposition/Sample Release for ASR #: 5281

Project ID: BZA72Z02

Project Description: Garvey Elevator - RI/FS sampling

From: Brian Zurbuchen
SUPR/IANE

To: Kaye Dollmann
ENSV/CARB

I have received and reviewed the Transmittal of Sample Analysis Results for the above-referenced Analytical Services Request(ASR) and have indicated my findings below by checking one of the boxes for Data Disposition.

I understand all samples will be disposed upon receipt of this form, unless samples are requested to be held. If I do not return this form all samples will be disposed of on _____.

- ☐ "RELEASED" - Read-only to all Region 7 employees and contractors that have R7LIMS "Customer" account. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Project Manager Accessible" - Available on the LAN in R7LIMS for my use only. All Samples may be disposed of upon receipt of this form if not requested to be held.
- ☐ "Archived" - THIS DATA IS OF A SENSITIVE NATURE. Any future reports must be requested through the laboratory. All samples may be disposed of upon receipt of the form if not requested to be held.

-
- ☐ Hold Samples - I have determined that the samples need to be held until _____, after which time they will be disposed of in accordance with applicable regulations.
The reason for the hold is:

☐ Samples are associated with a legal proceeding.

☐ Question/Concern with data - possible reanalysis requested.

☐ Other: _____