October 13, 2010

Brad Davis
Zia Engineering & Environmental
755 S Telshor Blvd Ste F-201
Las Cruces, NM 88011

TEL: (575) 678-3397
FAX: (575) 532-1587

Order No: 1010002

RE: HELSTF Chromate Spill Groundwater

Dear Brad Davis:

DHL Analytical received 4 sample(s) on 10/1/2010 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of DoD QSM Ver 4.1 and NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. This report shall not be reproduced except in full without the written approval of DHL Analytical, Inc. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-10-3

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zia engineering & environmental consultants, llc
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Las Cruces, NM 88011
575-532-1526 p
575-532-1587 f

282

101002
~~#1001002~~
JB

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.	PROJECT NAME: HELSTF Chromate Spill Groundwater
SAMPLER'S SIGNATURE	Juan Padilla

	DATE	TIME	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC	TOC	DRO	Hex. Chromium + Ph per Jared 10/5/10	Total Chromium						REMARKS
01	9-30-10	1058	HLSF-0143-HMW-037-0910	WATER		7	X	X	X	X	X						NOTE: 24 HR. HOLD TIME ON HEX. CHROME

ANALYSIS REQUESTED: VOC (J.P.)

PROJECT INFORMATION	SAMPLES RECEIVED	yes	1. RELINQUISHED BY: (SIGNATURE) Juan Padilla	2. RELINQUISHED BY: (SIGNATURE) Lonestar	3. RECEIVED BY LAB: (SIGNATURE)
PROJECT MANAGER: Brad Davis	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Juan Padilla	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID NO.	CHAIN OF CUSTODY SEALS	yes	RECEIVED BY: (SIGNATURE) Lonestar	RECEIVED BY: (SIGNATURE) [signature]	(COMPANY)
	GOOD CONDITION/COOLED	3.3	(TIME/DATE) 9/30/10	(TIME/DATE) 10/1/10 8:30	(TIME/DATE)
VIA: Lone Star	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS / COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS		

PLEASE USE BALL POINT PEN

DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

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#100002

CHAIN OF CUSTODY RECORD

PAGE 1 OF 1

PROJECT NO.	PROJECT NAME	SAMPLER'S SIGNATURE
	HELSTF Chromate Spill Groundwater	Juan Padilla

DATE	TIME	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC	TOC	DRO	Hex Chromium	Total Chromium						REMARKS
7-30-10	1206	HLSF-0143-HMW-038-0910	WATER		7	X	X	X	X	X						NOTE: 24 HR. HOLD TIME ON HEX. CHROME

ANALYSIS REQUESTED

PROJECT INFORMATION	SAMPLES RECEIVED	400	1. RELINQUISHED BY: (SIGNATURE) Juan Padilla	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LAB: (SIGNATURE)
PROJECT MANAGER: Brad Davis	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Juan Padilla	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID NO.	CHAIN OF CUSTODY SEALS	400	RECEIVED BY: (SIGNATURE)	RECEIVED BY: (SIGNATURE)	(COMPANY)
	GOOD CONDITION/CHILLED	3.30	(TIME/DATE) 9/30/10	(TIME/DATE) 10/1/10 8:30	(TIME/DATE)
VIA: Love Star	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS/COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS		

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#1010002

CHAIN OF CUSTODY RECORD

Brad 10/6/10

PAGE 1 OF 1

PROJECT NO.

PROJECT NAME: HELSTF Chromate Spill Groundwater

SAMPLER'S SIGNATURE: Juan Padilla

	DATE	TIME	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	VOC	TOC	DRO	Hex. Chromium	Total Chromium						REMARKS
03	9-30-10	1323	HLSF-0143-HMW-041-0910	WATER		7	X	X	X	X	X						NOTE: 24 HR. HOLD TIME ON HEX. CHROME

ANALYSIS REQUESTED

PROJECT INFORMATION			1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LAB: (SIGNATURE)
PROJECT MANAGER: Brad Davis	SAMPLES RECEIVED	yes	Juan Padilla	Lonestar	
	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Juan Padilla	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID NO.	CHAIN OF CUSTODY SEALS	yes	RECEIVED BY: (SIGNATURE) Lonestar	RECEIVED BY: (SIGNATURE)	(COMPANY)
	GOOD CONDITION/CHILLED	3.3°	(TIME/DATE) 9/30/10	(TIME/DATE) 10/1/10 8:30	(TIME/DATE)
VIA: LoneStar	CONFORMS TO RECORD		SPECIAL INSTRUCTIONS/COMMENTS: PLEASE SEE ATTACHED ANALYTE LIST FOR DETAILS		

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DISTRIBUTION: WHITE - PROJECT FILES; YELLOW - LAB; PINK - FIELD COPY

zia engineering & environmental consultants, llc

P.O. BOX 40, Bldg 126, 3rd Floor, WSMR, NM 88002
Office: (505) 678-0263 Fax: (505) 678-6096

CHAIN OF CUSTODY RECORD

#190002

PROJECT NO.	PROJECT NAME
26	HELSTF Chromate Spill Groundwater

SAMPLER'S SIGNATURE: Juan Padilla

	DATE	TIME	SAMPLE ID	MATRIX	LAB NO.	NO. OF CONTAINERS	ANALYSIS REQUESTED: VOCs										REMARKS
01	09/30/10	1058	HLSF-0143-HMW-037-0910	water		3	X										
02	09/30/10	1206	HLSF-0143-HMW-038-0910	water		3	X										
03	09/30/10	1323	HLSF-0143-HMW-041-0910	water		3	X										
04	09/30/10	1323	HLSF-0143-TB-292-0910	water		3	X										

PROJECT INFORMATION	SAMPLES RECEIVED		1. RELINQUISHED BY: (SIGNATURE)	2. RELINQUISHED BY: (SIGNATURE)	3. RECEIVED BY LAB: (SIGNATURE)
PROJECT MANAGER: Brad Davis	TOTAL NO. OF CONTAINERS		(PRINTED NAME) Bradley Davis	(PRINTED NAME)	(PRINTED NAME)
SHIPPING ID NO.	CHAIN OF CUSTODY SEALS	Yes	RECEIVED BY: (SIGNATURE) FedEx	RECEIVED BY: (SIGNATURE)	(COMPANY)
	GOOD CONDITION/CHILLED	Yes	(TIME / DATE)	(TIME / DATE) 10/1/10 1005	(TIME / DATE)
VIA: FedEx	CONFORMS TO RECORD	Yes	SPECIAL INSTRUCTIONS / COMMENTS:		

PLEASE USE BALL POINT PEN

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FedEx Express — *US Airbill*

FedEx Tracking Number: 8705 3665 0004

0200 — Recipient's Copy

1 From

Date 9-30-10

Sender's Name [illegible] Phone [illegible]

Company [illegible]

Address 735 S [illegible] ROAD [illegible] F-201

Dept./Floor/Suite/Room

City [illegible] State NM ZIP [illegible]

2 Your Internal Billing Reference LCS-07-015-[illegible]

3 To

Recipient's Name JOHN DURANT Phone 505 [illegible]

Company [illegible] HOLD Weekday — Print FedEx location address below. NOT available for FedEx First Overnight. HOLD Saturday — Print FedEx location address below. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Address [illegible] CREEK DR.

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Dept./Floor/Suite/Room

Address

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8705 3665 0004

4a Express Package Service * To most locations. — *Packages up to 150 lbs.*

- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. — *Packages over 150 lbs.*

- FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.
- FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- FedEx Envelope*
- FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- FedEx Box
- FedEx Tube
- X Other

6 Special Handling and Delivery Signature Options

- SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- No Signature Required — Package may be left without obtaining a signature for delivery.
- Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

- X No
- Yes — As per attached Shipper's Declaration.
- Yes — Shipper's Declaration not required.
- Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- Cargo Aircraft Only

7 Payment *Bill to:*

- X Sender — Acct. No. in Section 1 will be billed.
- Recipient
- Third Party
- Credit Card
- Cash/Check

Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.

Total Packages: 1 — Total Weight: 30 lbs. — Total Declared Value:* $ ____ .00 — Credit Card Auth.

*Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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CUSTODY SEAL

DATE 9-30-10

SIGNATURE [illegible]

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Lone Star Overnight

WWW.LSO.COM
Questions? Call 800-800-8984

Airbill No. 45207793

45207793

1A

1B

1. To: Print Name (Person): John Dupont Phone (Important): (512) 388-2220
Company Name: TCEQ Austin Air
Street Address (No P.O. Box or P.O. Box Zip Code/Deliveries): 9300 Double Creek Dr.
Suite / Floor:
City: Austin State: TX Zip: 78744

2. From: Print Name (Person): Jaime Garcia (702) 638-1021
Company Name: Test Laboratories of Nevada
Street Address: 755 S. Tenaya
Suite / Floor:
City: Las Vegas State: NV Zip: 89011

3. Service: Visit www.lso.com for availability of services to your destination and enjoy added features by creating your shipping label online.

- ☐ By 10:30 am Delivery — Check availability at www.lso.com
- ☒ By 8:30 am Delivery (Extra charge, no signature obtained) — Check availability at www.lso.com
- ☐ By 3:00 pm Delivery
- ☐ Ground (next day to most cities)
- ☐ Saturday Delivery (Extra charge, not available on Ground) — Check availability at www.lso.com
- ☐ Other _____

Assumed 10:30 a.m. service unless otherwise noted.

☒ Deliver Without Delivery Signature (See Limits of Liability below)

Release Signature

x L 24 x W 12 x H 18

4. Package: Weight: 65 x

Your Company's Billing Reference Information: LCS-09-015-6026

Ship Date: (mm/dd/yy) 9/30/10 x

5. Payment:

FOR COURIER USE ONLY

Courier Number 206

☐ Check here if LSO Supplies are used with Ground Service.

Pick-up Location CGN

Date: 9-30

Time: 1700

City Code:

LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 08:30 AM DELIVERIES AND RESIDENTIAL DELIVERIES. PRIORITY SERVICE PACKAGING PROVIDED BY LSO IS NOT INTENDED FOR USE ON GROUND SERVICE. OVERSIZE RATES MAY APPLY. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.

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CUSTODY SEAL
DATE 9-30-10
SIGNATURE Juan Bordillo

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

DHL Analytical

Sample Receipt Checklist

Client Name Zia Engineering & Environmental

Date Received: 10/1/2010

Work Order Number 1010002

Received by JB

Checklist completed by: [signature] 10/1/10 (Signature / Date)

Reviewed by SS 10.1.10 (Initials / Date)

Carrier name: LoneStar

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	3.3 °C, 4.42
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? NO Checked by [signature]

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

Laboratory Data Package Signature Page – RG-366/TRRP-13
Revised May 2010

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC Chapter 5,
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) The amount of analyte measured in the duplicate,
  - b) The calculated RPD, and
  - c) The laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results (DCS results can be found with the Miscellaneous Documents) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in Laboratory Review checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge that all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information or data affecting the quality of the data has been knowingly withheld.

This laboratory was last inspected by TCEQ on April 6-8, 2009. Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

John DuPont – General Manager
Scott Schroeder – Technical Director

Signature

10/13/10
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: HELSTF Chromate Spill Groundwater	Date: 10/13/2010
Reviewer Name: Angie O'Donnell	Laboratory Work Order: 1010003
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample detection limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			X		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			X		
		8) Were bulk soils/solids samples for volatile analysis extracted with methanol per EPA Method 5035?			X		
		9) If required for the project, TICs reported?			X		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	X				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			R6-04
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				R10-01
		2) Was applicable and available technology used to lower the SDL to minimize the matrix interference affects on the sample results?	X				
		3) Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.
Laboratory Review Checklist (continued): Supporting Data

Project Name: HELSTF Chromate Spill Groundwater	Date: 10/13/2010
Reviewer Name: Angie O'Donnell	Laboratory Work Order: 1010003

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?		X			S2-02
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw Data (NELAC Section 5.5.10)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	X				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5 – Appendix C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chapter 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	X				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
3 NA = Not applicable.
4 NR = Not Reviewed.
5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DCS REPORTING

RunID:	GC15_100922A	Prep Date:	9/20/2010
SampID:	DCS-43088	Anaysis Date:	9/22/2010
TestNo:	M8015D	Units:	mg/L
BatchID:	43088		

Analyte	Result	RL	SPK Val	%REC	Low Limit	High Limit	Flag
TPH-DRO C10-C28	0.0333	0.1	0.0375	88.8	10	400	

DCS REPORTING

RunID:	GCMS5_100816A	Prep Date:	8/16/2010
SampID:	DCS-42635	Anaysis Date:	8/16/2010
TestNo:	SW8260B	Units:	µg/L
BatchID:	42635		

Analyte	Result	RL	SPK Val	%REC	Low Limit	High Limit	Flag
1,1,1-Trichloroethane	0.170	1	0.232	73.3	60	140	
1,1,2,2-Tetrachloroethane	0.140	1	0.232	60.3	50	150	
1,1-Dichloroethane	0.190	1	0.232	81.9	50	150	
1,1-Dichloroethene	0.190	1	0.232	81.9	50	150	
1,2-Dichloroethane	0.210	1	0.232	90.5	50	150	
1,3-Dichlorobenzene	0.170	1	0.232	73.3	50	150	
1,3-Dichloropropane	0.140	1	0.232	60.3	50	150	
2-Chlorotoluene	0.180	1	0.232	77.6	50	150	
4-Chlorotoluene	0.160	1	0.232	69.0	20	180	
Benzene	0.230	1	0.232	99.1	50	150	
Bromobenzene	0.190	1	0.232	81.9	50	150	
Bromodichloromethane	0.210	1	0.232	90.5	50	150	
Bromomethane	0.200	1	0.232	86.2	20	200	
Chlorobenzene	0.290	1	0.232	125	50	150	
Chloroform	0.220	1	0.232	94.8	50	150	
Chloromethane	0.200	1	0.232	86.2	40	180	
cis-1,2-Dichloroethene	0.200	1	0.232	86.2	50	150	
Dibromochloromethane	0.180	1	0.232	77.6	40	160	
Dibromomethane	0.250	1	0.232	108	50	150	
Dichlorodifluoromethane	0.170	1	0.232	73.3	50	150	
Ethyl tert-butyl ether (ETBE)	0.120	2	0.232	51.7	20	200	
Ethylbenzene	0.180	1	0.232	77.6	60	140	
Methyl tert-butyl ether	0.190	1	0.232	81.9	50	150	
n-Propylbenzene	0.170	1	0.232	73.3	40	160	
Total THMs	0.610	1	0.928	65.7	30	160	
trans-1,2-Dichloroethene	0.160	1	0.232	69.0	50	150	
Trichlorofluoromethane	0.210	1	0.232	90.5	50	150	
Vinyl chloride	0.180	1	0.232	77.6	50	150	

DCS REPORTING

RunID:	GCMS5_100816A	Prep Date:	8/16/2010
SampID:	DCS2-42635	Anaysis Date:	8/16/2010
TestNo:	SW8260B	Units:	µg/L
BatchID:	42635		

Analyte	Result	RL	SPK Val	%REC	Low Limit	High Limit	Flag
1,1,1,2-Tetrachloroethane	0.350	1	0.464	75.4	50	150	
1,1,2-Trichloroethane	0.350	1	0.464	75.4	40	160	
1,1-Dichloropropene	0.300	1	0.464	64.7	30	170	
1,2-Dibromoethane	0.300	1	0.464	64.7	40	160	
1,2-Dichloropropane	0.370	1	0.464	79.7	40	160	
1,4-Dichlorobenzene	0.330	1	0.464	71.1	50	150	
2,2-Dichloropropane	0.310	1	0.464	66.8	40	160	
Acrolein	4.44	15	4.64	95.7	20	200	
Acrylonitrile	1.51	3	0.928	163	30	170	
Bromochloromethane	0.180	1	0.464	38.8	30	170	
Carbon tetrachloride	0.360	1	0.464	77.6	50	150	
Isopropyl alcohol	2.99	15	4.64	64.4	20	200	
tert-Butylbenzene	0.740	1	0.464	159	20	180	
Vinyl acetate	2.36	10	4.64	50.9	20	200	

DCS REPORTING

RunID:	GCMS5_100816A	Prep Date:	8/16/2010
SampID:	DCS3-42635	Anaysis Date:	8/17/2010
TestNo:	SW8260B	Units:	µg/L
BatchID:	42635		

Analyte	Result	RL	SPK Val	%REC	Low Limit	High Limit	Flag
1,2,3-Trichloropropane	0.960	1	0.928	103	20	180	
1,2,4-Trimethylbenzene	0.480	5	0.928	51.7	20	180	
1,2-Dichlorobenzene	1.26	1	0.928	136	50	150	
1,3,5-Trimethylbenzene	0.590	5	0.928	63.6	20	180	
1-Chlorohexane	1.40	5	0.928	151	20	180	
Bromoform	1.14	1	0.928	123	30	150	
Chloroethane	0.830	1	0.928	89.4	20	180	
cis-1,3-Dichloropropene	1.15	1	0.928	124	40	160	
Hexachlorobutadiene	1.47	3	0.928	158	20	200	
Isopropyl ether (DIPE)	1.23	2	0.928	133	20	200	
Isopropylbenzene	1.18	1	0.928	127	30	170	
m,p-Xylene	2.22	2	1.856	120	40	160	
Methylene chloride	0.780	2.5	0.928	84.1	20	200	
n-Butylbenzene	1.46	1	0.928	157	20	180	
o-Xylene	1.35	1	0.928	145	30	170	
p-Isopropyltoluene	1.35	1	0.928	145	20	180	
sec-Butylbenzene	1.19	1	0.928	128	30	170	
Tert-amyl methyl ether (TAME)	1.04	2	0.928	112	20	200	
Tert-butanol (TBA)	7.51	20	4.64	162	20	200	
Tetrachloroethene	0.780	2	0.928	84.1	50	150	
Toluene	0.870	2	0.928	93.8	40	160	
Total Xylenes	3.57	1	2.784	128	30	170	
trans-1,3-Dichloropropene	1.30	1	0.928	140	40	160	
Trichloroethene	0.780	2	0.928	84.1	50	150	

DCS REPORTING

RunID:	GCMS5_100816A	Prep Date:	8/16/2010
SampID:	DCS4-42635	Anaysis Date:	8/17/2010
TestNo:	SW8260B	Units:	µg/L
BatchID:	42635		

Analyte	Result	RL	SPK Val	%REC	Low Limit	High Limit	Flag
1,1,2-Trichlorotrifluoroethane	4.09	15	4.64	88.1	40	160	
1,2,3-Trichlorobenzene	5.72	5	4.64	123	20	180	
1,2,4-Trichlorobenzene	5.92	5	4.64	128	20	180	
1,2-Dibromo-3-chloropropane	6.04	10	4.64	130	20	180	
1,4-Dichloro-2-butene	3.60	5	4.64	77.6	20	180	
2-Butanone	3.68	15	4.64	79.3	40	160	
2-Chloroethylvinylether	6.77	15	4.64	146	20	180	
2-Hexanone	6.95	15	4.64	150	20	180	
4-Methyl-2-pentanone	3.66	15	4.64	78.9	50	150	
Acetone	4.54	15	4.64	97.8	20	200	
Carbon disulfide	4.12	15	4.64	88.8	20	200	
Cyclohexane	3.32	15	4.64	71.6	20	180	
Iodomethane	7.29	15	4.64	157	20	200	
Methyl Acetate	4.58	15	4.64	98.7	30	180	
Methylcyclohexane	3.49	15	4.64	75.2	20	200	
Naphthalene	6.48	15	4.64	140	20	200	

DCS REPORTING

RunID:	ICP-MS2_100813C	Prep Date:	8/12/2010
SampID:	DCS-42510-2	Anaysis Date:	8/13/2010
TestNo:	SW6020	Units:	µg/L
BatchID:	42510		

Analyte	Result	RL	SPK Val	%REC	Low Limit	High Limit	Flag
Aluminum	40.8	30	40	102	60	140	
Arsenic	3.69	6	4	92.2	60	140	
Barium	3.75	10	4	93.7	60	140	
Boron	3.22	30	4	80.6	60	140	
Calcium	65.7	300	100	65.7	60	140	
Chromium	4.25	6	4	106	60	140	
Cobalt	4.03	10	4	101	60	140	
Copper	4.43	10	4	111	60	140	
Iron	105	150	100	105	60	140	
Lithium	3.73	6	4	93.2	60	140	
Magnesium	99.9	300	100	99.9	60	140	
Manganese	4.11	10	4	103	60	140	
Molybdenum	3.78	6	4	94.4	60	140	
Nickel	3.75	10	4	93.7	60	140	
Potassium	94.7	300	100	94.7	60	140	
Selenium	4.21	6	4	105	60	140	
Sodium	96.2	300	100	96.2	60	140	
Strontium	3.78	10	4	94.6	60	140	
Tin	3.86	10	4	96.5	60	140	
Titanium	3.62	10	4	90.6	60	140	
Vanadium	4.06	10	4	101	60	140	
Zinc	3.86	5	4	96.6	60	140	

DCS REPORTING

RunID:	TOC_100923A	Prep Date:	9/23/2010
SampID:	DCS-43134	Anaysis Date:	9/23/2010
TestNo:	M5310C	Units:	mg/L
BatchID:	43134		

Analyte	Result	RL	SPK Val	%REC	Low Limit	High Limit	Flag
Total Organic Carbon	0.512	1	0.5	102	20	400	

DCS REPORTING

RunID:	UV/VIS_2_100922B	Prep Date:	9/22/2010
SampID:	DCS-43115	Anaysis Date:	9/22/2010
TestNo:	M3500-Cr D	Units:	µg/L
BatchID:	43115		

Analyte	Result	RL	SPK Val	%REC	Low Limit	High Limit	Flag
Hexavalent Chromium	4.19	10	10	41.9	20	400	

CLIENT:	Zia Engineering & Environmental	**CASE NARRATIVE**
Project:	HELSTF Chromate Spill Groundwater	
Lab Order:	1010002	

This case narrative describes abnormalities and deviations that may affect the results and summarizes all known issues that need to be highlighted for the data user to assess the results. This case narrative and the report contents are compliant with DoD QSM Ver 4.1 and NELAC.

Samples were analyzed using the methods outlined in the following references:

Method SW8260B - Volatile Organics
Method M3500-Cr D - Hexavalent Chromium
Method SW6020 - Metals Analysis
Method M8015D - DRO Analysis
Method M5310C (18th Edition) - TOC Analysis
Method M4500-H+ B (18th Edition) - pH of a Water

Exception Report R1-01

Samples were received on and log-in performed on 10/1/2010. A total of 4 samples were received and all were analyzed. The samples arrived in good condition and were properly packaged. Analysis was added per client on 10/05/2010.

Exception Report R6-04

For Volatiles Analysis, the recovery of Acetone in the Laboratory Control Sample (LCS-43280) was slightly above the method control limits. These are flagged accordingly in the QC Summary Report. Affected samples are nondetect for this compound. No further corrective actions were taken.

Exception Report R7-03

For Volatiles Analysis, the recovery of Acetone in the Matrix Spike Duplicate (1010010-02 MSD) was slightly above the method control limits. These are flagged accordingly in the QC Summary Report. The reference sample selected for the matrix spike and matrix spike duplicate was not from this work order. No further corrective actions were taken.

Exception Report R10-01

For TOC Analysis, some results were reported at a dilution due to mineral concentration in sample matrix.

The Hexavalent Chromium Analysis/Trace Metals Analysis, results for Samples HLSF-0143-HMW-038-0910 and HLSF-0143-HMW-041-0910 showed Hexavalent Chromium as slightly higher than the total Chromium. The results were within acceptable analytical variation limits.

Exception Report S2-02

For Volatiles Analysis, the recoveries of Acetone, cis-1,3-Dichloropropane and Methyl tert-butyl ether for the Initial Calibration Verification (ICV-101004) were slightly above the method control limits. These were flagged in the QC Summary Report. The compounds cis-1,3-Dichloropropane and Methyl tert-butyl ether were within acceptable control limits in the associated LCS. Acetone was nondetect in all associated samples. No further corrective actions were taken.

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill Groundwater
Lab Order: 1010002

CASE NARRATIVE

A summary of project communication follows:

DHL Analytical received the Project RFQ from the client on 12/29/09. Completed RFQ returned to client via email on 1/07/2010. Purchase Order/Terms and Conditions received and signed and approved by both parties on 01/25/2010.

Brad Davis of ZIA Requested a bottle kit from Jennifer Barker of DHL: via email on 8/5/10.

Kit sent on 8/18/10 via Lonestar Overnight, arrive by 8/20/10.
This sample delivery group arrived at DHL Analytical 10/1/10. Sample summary sent via email from Log-in to client on 10/1/10.
All hardcopies for the sample kit request, bill of lading for sample kit sent and login summary are kept in the project folder.

DHL Analytical

Date: 10/13/10

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill Groundwater
Lab Order: 1010002

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
1010002-01	HLSF-0143-HMW-037-0910		09/30/10 10:58 AM	10/01/10
1010002-02	HLSF-0143-HMW-038-0910		09/30/10 12:06 PM	10/01/10
1010002-03	HLSF-0143-HMW-041-0910		09/30/10 01:23 PM	10/01/10
1010002-04	HLSF-0143-TB-292-0910		09/30/10 01:23 PM	10/01/10

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill Groundwater
Lab Order: 1010002

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
1010002-01A	HLSF-0143-HMW-037-0910	09/30/10 10:58 AM	Aqueous	SW5030B	Purge and Trap Water GC/MS	10/04/10 10:20 AM	43280
1010002-01B	HLSF-0143-HMW-037-0910	09/30/10 10:58 AM	Aqueous	M5310C	TOC prep Aqueous	10/06/10 08:13 AM	43318
1010002-01C	HLSF-0143-HMW-037-0910	09/30/10 10:58 AM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/10 08:54 AM	43289
1010002-01D	HLSF-0143-HMW-037-0910	09/30/10 10:58 AM	Aqueous	SW7196A	Hexachrom Prep Water	10/01/10 09:14 AM	43276
	HLSF-0143-HMW-037-0910	09/30/10 10:58 AM	Aqueous	M4500-H+ B	pH Preparation	10/05/10 09:00 AM	43308
1010002-01E	HLSF-0143-HMW-037-0910	09/30/10 10:58 AM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	10/05/10 10:47 AM	43307
1010002-02A	HLSF-0143-HMW-038-0910	09/30/10 12:06 PM	Aqueous	SW5030B	Purge and Trap Water GC/MS	10/04/10 10:20 AM	43280
1010002-02B	HLSF-0143-HMW-038-0910	09/30/10 12:06 PM	Aqueous	M5310C	TOC prep Aqueous	10/06/10 08:13 AM	43318
1010002-02C	HLSF-0143-HMW-038-0910	09/30/10 12:06 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/10 08:54 AM	43289
1010002-02D	HLSF-0143-HMW-038-0910	09/30/10 12:06 PM	Aqueous	SW7196A	Hexachrom Prep Water	10/01/10 09:14 AM	43276
	HLSF-0143-HMW-038-0910	09/30/10 12:06 PM	Aqueous	M4500-H+ B	pH Preparation	10/05/10 09:00 AM	43308
1010002-02E	HLSF-0143-HMW-038-0910	09/30/10 12:06 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	10/05/10 10:47 AM	43307
1010002-03A	HLSF-0143-HMW-041-0910	09/30/10 01:23 PM	Aqueous	SW5030B	Purge and Trap Water GC/MS	10/04/10 10:20 AM	43280
1010002-03B	HLSF-0143-HMW-041-0910	09/30/10 01:23 PM	Aqueous	M5310C	TOC prep Aqueous	10/06/10 08:13 AM	43318
1010002-03C	HLSF-0143-HMW-041-0910	09/30/10 01:23 PM	Aqueous	SW3005A	Aq Prep Metals : ICP-MS	10/04/10 08:54 AM	43289
1010002-03D	HLSF-0143-HMW-041-0910	09/30/10 01:23 PM	Aqueous	SW7196A	Hexachrom Prep Water	10/01/10 09:14 AM	43276
	HLSF-0143-HMW-041-0910	09/30/10 01:23 PM	Aqueous	M4500-H+ B	pH Preparation	10/05/10 09:00 AM	43308
1010002-03E	HLSF-0143-HMW-041-0910	09/30/10 01:23 PM	Aqueous	SW3510C	Aq Prep Sep Funnel: DRO	10/05/10 10:47 AM	43307
1010002-04A	HLSF-0143-TB-292-0910	09/30/10 01:23 PM	Trip Blank	SW5030B	Purge and Trap Water GC/MS	10/04/10 10:20 AM	43280

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill Groundwater
Lab Order: 1010002

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
1010002-01A	HLSF-0143-HMW-037-0910	Aqueous	SW8260B	8260 Water Volatiles by GC/MS	43280	1	10/04/10 06:05 PM	GCMS5_101004A
1010002-01B	HLSF-0143-HMW-037-0910	Aqueous	M5310C	Total Organic Carbon	43318	2	10/06/10 12:03 PM	TOC_101006A
1010002-01C	HLSF-0143-HMW-037-0910	Aqueous	SW6020	Trace Metals: ICP-MS - Water	43289	1	10/06/10 03:25 PM	ICP-MS2_101006A
1010002-01D	HLSF-0143-HMW-037-0910	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	43276	1	10/01/10 10:30 AM	UV/VIS_2_101001A
	HLSF-0143-HMW-037-0910	Aqueous	M4500-H+ B	pH	43308	1	10/05/10 09:35 AM	TITRATOR_101005A
1010002-01E	HLSF-0143-HMW-037-0910	Aqueous	M8015D	TPH Extractable by GC - Water	43307	1	10/05/10 04:03 PM	GC15_101005A
1010002-02A	HLSF-0143-HMW-038-0910	Aqueous	SW8260B	8260 Water Volatiles by GC/MS	43280	1	10/04/10 06:30 PM	GCMS5_101004A
1010002-02B	HLSF-0143-HMW-038-0910	Aqueous	M5310C	Total Organic Carbon	43318	2	10/06/10 12:20 PM	TOC_101006A
1010002-02C	HLSF-0143-HMW-038-0910	Aqueous	SW6020	Trace Metals: ICP-MS - Water	43289	1	10/06/10 03:30 PM	ICP-MS2_101006A
1010002-02D	HLSF-0143-HMW-038-0910	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	43276	1	10/01/10 10:30 AM	UV/VIS_2_101001A
	HLSF-0143-HMW-038-0910	Aqueous	M4500-H+ B	pH	43308	1	10/05/10 09:36 AM	TITRATOR_101005A
1010002-02E	HLSF-0143-HMW-038-0910	Aqueous	M8015D	TPH Extractable by GC - Water	43307	1	10/05/10 04:12 PM	GC15_101005A
1010002-03A	HLSF-0143-HMW-041-0910	Aqueous	SW8260B	8260 Water Volatiles by GC/MS	43280	1	10/04/10 06:54 PM	GCMS5_101004A
1010002-03B	HLSF-0143-HMW-041-0910	Aqueous	M5310C	Total Organic Carbon	43318	2	10/06/10 12:38 PM	TOC_101006A
1010002-03C	HLSF-0143-HMW-041-0910	Aqueous	SW6020	Trace Metals: ICP-MS - Water	43289	1	10/06/10 03:36 PM	ICP-MS2_101006A
1010002-03D	HLSF-0143-HMW-041-0910	Aqueous	M3500-Cr D	Hexavalent Chromium-Water	43276	5	10/01/10 10:30 AM	UV/VIS_2_101001A
	HLSF-0143-HMW-041-0910	Aqueous	M4500-H+ B	pH	43308	1	10/05/10 09:37 AM	TITRATOR_101005A
1010002-03E	HLSF-0143-HMW-041-0910	Aqueous	M8015D	TPH Extractable by GC - Water	43307	1	10/05/10 04:22 PM	GC15_101005A
1010002-04A	HLSF-0143-TB-292-0910	Trip Blank	SW8260B	8260 Water Volatiles by GC/MS	43280	1	10/04/10 12:48 PM	GCMS5_101004A

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill Groundwater
Project No: 26
Lab Order: 1010002

Client Sample ID: HLSF-0143-HMW-037-0910
Lab ID: 1010002-01
Collection Date: 09/30/10 10:58 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Water		**M8015D**					**Analyst: AV**
TPH-DRO C10-C28	<0.0500	0.0500	0.100		mg/L	1	10/05/10 04:03 PM
Surr: Isopropylbenzene	63.4	0	60 - 140		%REC	1	10/05/10 04:03 PM
Surr: Octacosane	74.3	0	51 - 124		%REC	1	10/05/10 04:03 PM
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KL**
Chromium	0.00829	0.00200	0.00600		mg/L	1	10/06/10 03:25 PM
8260 Water Volatiles by GC/MS		**SW8260B**					**Analyst: AJR**
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 06:05 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 06:05 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 06:05 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	10/04/10 06:05 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 06:05 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	10/04/10 06:05 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:05 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:05 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:05 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:05 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:05 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	10/04/10 06:05 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:05 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill Groundwater
Project No: 26
Lab Order: 1010002

Client Sample ID: HLSF-0143-HMW-037-0910
Lab ID: 1010002-01
Collection Date: 09/30/10 10:58 AM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
Chloroform	0.00169	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	10/04/10 06:05 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:05 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 06:05 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	10/04/10 06:05 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:05 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:05 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 06:05 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 06:05 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 06:05 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:05 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	10/04/10 06:05 PM
Surr: 1,2-Dichloroethane-d4	98.7	0	70 - 120		%REC	1	10/04/10 06:05 PM
Surr: 4-Bromofluorobenzene	109	0	75 - 120		%REC	1	10/04/10 06:05 PM
Surr: Dibromofluoromethane	102	0	85 - 115		%REC	1	10/04/10 06:05 PM
Surr: Toluene-d8	96.6	0	85 - 120		%REC	1	10/04/10 06:05 PM
Hexavalent Chromium-Water		**M3500-Cr D**					**Analyst: LM**
Hexavalent Chromium	<0.00800	0.00800	0.0100		mg/L	1	10/01/10 10:30 AM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	6.76	0	0		pH Units	1	10/05/10 09:35 AM
Total Organic Carbon		**M5310C**					**Analyst: TGK**
Total Organic Carbon	1.56	0.600	2.00	J	mg/L	2	10/06/10 12:03 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill Groundwater
Project No: 26
Lab Order: 1010002

Client Sample ID: HLSF-0143-HMW-038-0910
Lab ID: 1010002-02
Collection Date: 09/30/10 12:06 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Water		**M8015D**					**Analyst: AV**
TPH-DRO C10-C28	<0.0500	0.0500	0.100		mg/L	1	10/05/10 04:12 PM
Surr: Isopropylbenzene	59.7	0	60 - 140		%REC	1	10/05/10 04:12 PM
Surr: Octacosane	69.3	0	51 - 124		%REC	1	10/05/10 04:12 PM
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KL**
Chromium	0.0393	0.00200	0.00600		mg/L	1	10/06/10 03:30 PM
8260 Water Volatiles by GC/MS		**SW8260B**					**Analyst: AJR**
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 06:30 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 06:30 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 06:30 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	10/04/10 06:30 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 06:30 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	10/04/10 06:30 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:30 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:30 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:30 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:30 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:30 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	10/04/10 06:30 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:30 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill Groundwater
Project No: 26
Lab Order: 1010002

Client Sample ID: HLSF-0143-HMW-038-0910
Lab ID: 1010002-02
Collection Date: 09/30/10 12:06 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	10/04/10 06:30 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:30 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 06:30 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	10/04/10 06:30 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:30 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:30 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 06:30 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 06:30 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
Trichloroethene	0.00930	0.000600	0.00200		mg/L	1	10/04/10 06:30 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:30 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	10/04/10 06:30 PM
Surr: 1,2-Dichloroethane-d4	100	0	70 - 120		%REC	1	10/04/10 06:30 PM
Surr: 4-Bromofluorobenzene	106	0	75 - 120		%REC	1	10/04/10 06:30 PM
Surr: Dibromofluoromethane	102	0	85 - 115		%REC	1	10/04/10 06:30 PM
Surr: Toluene-d8	97.3	0	85 - 120		%REC	1	10/04/10 06:30 PM
Hexavalent Chromium-Water		**M3500-Cr D**					**Analyst: LM**
Hexavalent Chromium	0.0389	0.00800	0.0100		mg/L	1	10/01/10 10:30 AM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.17	0	0		pH Units	1	10/05/10 09:36 AM
Total Organic Carbon		**M5310C**					**Analyst: TGK**
Total Organic Carbon	2.31	0.600	2.00		mg/L	2	10/06/10 12:20 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill Groundwater
Project No: 26
Lab Order: 1010002

Client Sample ID: HLSF-0143-HMW-041-0910
Lab ID: 1010002-03
Collection Date: 09/30/10 01:23 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH Extractable by GC - Water		**M8015D**					**Analyst: AV**
TPH-DRO C10-C28	<0.0500	0.0500	0.100		mg/L	1	10/05/10 04:22 PM
Surr: Isopropylbenzene	65.5	0	60 - 140		%REC	1	10/05/10 04:22 PM
Surr: Octacosane	76.7	0	51 - 124		%REC	1	10/05/10 04:22 PM
Trace Metals: ICP-MS - Water		**SW6020**					**Analyst: KL**
Chromium	0.518	0.00200	0.00600		mg/L	1	10/06/10 03:36 PM
8260 Water Volatiles by GC/MS		**SW8260B**					**Analyst: AJR**
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
1,1-Dichloroethane	0.000530	0.000200	0.00100	J	mg/L	1	10/04/10 06:54 PM
1,1-Dichloroethene	0.00302	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 06:54 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 06:54 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 06:54 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	10/04/10 06:54 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 06:54 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	10/04/10 06:54 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:54 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:54 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:54 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:54 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:54 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	10/04/10 06:54 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:54 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill Groundwater
Project No: 26
Lab Order: 1010002

Client Sample ID: HLSF-0143-HMW-041-0910
Lab ID: 1010002-03
Collection Date: 09/30/10 01:23 PM
Matrix: Aqueous

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
Chloroform	0.000830	0.000300	0.00100	J	mg/L	1	10/04/10 06:54 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	10/04/10 06:54 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:54 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 06:54 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	10/04/10 06:54 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 06:54 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 06:54 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 06:54 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 06:54 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
Trichloroethene	0.111	0.000600	0.00200		mg/L	1	10/04/10 06:54 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 06:54 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	10/04/10 06:54 PM
Surr: 1,2-Dichloroethane-d4	102	0	70 - 120		%REC	1	10/04/10 06:54 PM
Surr: 4-Bromofluorobenzene	108	0	75 - 120		%REC	1	10/04/10 06:54 PM
Surr: Dibromofluoromethane	103	0	85 - 115		%REC	1	10/04/10 06:54 PM
Surr: Toluene-d8	97.7	0	85 - 120		%REC	1	10/04/10 06:54 PM
Hexavalent Chromium-Water		**M3500-Cr D**					**Analyst: LM**
Hexavalent Chromium	0.597	0.0400	0.0500		mg/L	5	10/01/10 10:30 AM
pH		**M4500-H+ B**					**Analyst: JBC**
pH	7.30	0	0		pH Units	1	10/05/10 09:37 AM
Total Organic Carbon		**M5310C**					**Analyst: TGK**
Total Organic Carbon	2.61	0.600	2.00		mg/L	2	10/06/10 12:38 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

DHL Analytical

Date: 10/13/10

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill Groundwater
Project No: 26
Lab Order: 1010002

Client Sample ID: HLSF-0143-TB-292-0910
Lab ID: 1010002-04
Collection Date: 09/30/10 01:23 PM
Matrix: Trip Blank

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 Water Volatiles by GC/MS		**SW8260B**					**Analyst: AJR**
1,1,1,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
1,1,1-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
1,1,2,2-Tetrachloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
1,1,2-Trichloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
1,1-Dichloroethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
1,1-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
1,1-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
1,2,3-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 12:48 PM
1,2,3-Trichloropropane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
1,2,4-Trichlorobenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 12:48 PM
1,2,4-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 12:48 PM
1,2-Dibromo-3-chloropropane	<0.00300	0.00300	0.0100		mg/L	1	10/04/10 12:48 PM
1,2-Dibromoethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
1,2-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
1,2-Dichloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
1,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
1,3,5-Trimethylbenzene	<0.00150	0.00150	0.00500		mg/L	1	10/04/10 12:48 PM
1,3-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
1,3-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
1,4-Dichloro-2-butene	<0.00200	0.00200	0.00200		mg/L	1	10/04/10 12:48 PM
1,4-Dichlorobenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
2,2-Dichloropropane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
2-Butanone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 12:48 PM
2-Chloroethylvinylether	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 12:48 PM
2-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
2-Hexanone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 12:48 PM
4-Chlorotoluene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
4-Methyl-2-pentanone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 12:48 PM
Acetone	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 12:48 PM
Acrylonitrile	<0.00100	0.00100	0.00300		mg/L	1	10/04/10 12:48 PM
Benzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
Bromobenzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
Bromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
Bromodichloromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
Bromoform	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
Bromomethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
Carbon disulfide	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 12:48 PM
Carbon tetrachloride	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
Chlorobenzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
Chloroethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
Chloroform	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
Chloromethane	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
cis-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
cis-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Zia Engineering & Environmental
Project: HELSTF Chromate Spill Groundwater
Project No: 26
Lab Order: 1010002

Client Sample ID: HLSF-0143-TB-292-0910
Lab ID: 1010002-04
Collection Date: 09/30/10 01:23 PM
Matrix: Trip Blank

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
Dibromochloromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
Dibromomethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
Dichlorodifluoromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
Ethylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
Hexachlorobutadiene	<0.00100	0.00100	0.00300		mg/L	1	10/04/10 12:48 PM
Iodomethane	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 12:48 PM
Isopropylbenzene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
m,p-Xylene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 12:48 PM
Methyl tert-butyl ether	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
Methylene chloride	<0.00250	0.00250	0.00250		mg/L	1	10/04/10 12:48 PM
n-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
n-Propylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
Naphthalene	<0.00500	0.00500	0.0150		mg/L	1	10/04/10 12:48 PM
o-Xylene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
p-Isopropyltoluene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
sec-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
Styrene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
tert-Butylbenzene	<0.000300	0.000300	0.00100		mg/L	1	10/04/10 12:48 PM
Tetrachloroethene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 12:48 PM
Toluene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 12:48 PM
trans-1,2-Dichloroethene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
trans-1,3-Dichloropropene	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
Trichloroethene	<0.000600	0.000600	0.00200		mg/L	1	10/04/10 12:48 PM
Trichlorofluoromethane	<0.000200	0.000200	0.00100		mg/L	1	10/04/10 12:48 PM
Vinyl chloride	<0.000100	0.000100	0.00100		mg/L	1	10/04/10 12:48 PM
Surr: 1,2-Dichloroethane-d4	99.3	0	70 - 120		%REC	1	10/04/10 12:48 PM
Surr: 4-Bromofluorobenzene	106	0	75 - 120		%REC	1	10/04/10 12:48 PM
Surr: Dibromofluoromethane	101	0	85 - 115		%REC	1	10/04/10 12:48 PM
Surr: Toluene-d8	96.8	0	85 - 120		%REC	1	10/04/10 12:48 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_101005A

Sample ID:	**LCS-43307**	**Batch ID:**	**43307**		**TestNo:**		**M8015D**			**Units:**	**mg/L**
SampType:	**LCS**	**Run ID:**	**GC15_101005A**		**Analysis Date:**		**10/05/10 03:36 PM**			**Prep Date:**	**10/05/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
TPH-DRO C10-C28		1.02	0.100	1.250	0	81.8	50	114			
Surr: Isopropylbenzene		0.0957		0.1500		63.8	60	140			
Surr: Octacosane		0.106		0.1500		70.9	51	124			

Sample ID:	**MB-43307**	**Batch ID:**	**43307**		**TestNo:**		**M8015D**			**Units:**	**mg/L**
SampType:	**MBLK**	**Run ID:**	**GC15_101005A**		**Analysis Date:**		**10/05/10 03:54 PM**			**Prep Date:**	**10/05/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
TPH-DRO C10-C28		<0.0500	0.100								
Surr: Isopropylbenzene		0.0924		0.1500		61.6	60	140			
Surr: Octacosane		0.105		0.1500		69.9	51	124			

Sample ID:	**1010018-01DMS**	**Batch ID:**	**43307**		**TestNo:**		**M8015D**			**Units:**	**mg/L**
SampType:	**MS**	**Run ID:**	**GC15_101005A**		**Analysis Date:**		**10/05/10 04:40 PM**			**Prep Date:**	**10/05/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
TPH-DRO C10-C28		1.20	0.100	1.250	0	96.0	50	114			
Surr: Isopropylbenzene		0.0979		0.1500		65.2	60	140			
Surr: Octacosane		0.110		0.1500		73.6	51	124			

Sample ID:	**1010018-01DMSD**	**Batch ID:**	**43307**		**TestNo:**		**M8015D**			**Units:**	**mg/L**
SampType:	**MSD**	**Run ID:**	**GC15_101005A**		**Analysis Date:**		**10/05/10 04:49 PM**			**Prep Date:**	**10/05/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
TPH-DRO C10-C28		1.29	0.100	1.250	0	103	50	114	7.07	30	
Surr: Isopropylbenzene		0.107		0.1500		71.7	60	140	0	0	
Surr: Octacosane		0.116		0.1500		77.2	51	124	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_101005A

Sample ID:	**ICV-101005**	**Batch ID:**	**R51655**	**TestNo:**		**M8015D**		**Units:**		**mg/L**
SampType:	**ICV**	**Run ID:**	**GC15_101005A**	**Analysis Date:**		**10/05/10 10:00 AM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
TPH-DRO C10-C28		554	0.100	500.0	0	111	80	120			
Surr: Isopropylbenzene		25.8		25.00		103	80	120			
Surr: Octacosane		20.1		25.00		80.5	80	120			

Sample ID:	**CCV3-101005**	**Batch ID:**	**R51655**	**TestNo:**		**M8015D**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**GC15_101005A**	**Analysis Date:**		**10/05/10 03:09 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
TPH-DRO C10-C28		255	0.100	250.0	0	102	80	120			
Surr: Isopropylbenzene		13.0		12.50		104	80	120			
Surr: Octacosane		10.2		12.50		81.5	80	120			

Sample ID:	**CCV4-101005**	**Batch ID:**	**R51655**	**TestNo:**		**M8015D**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**GC15_101005A**	**Analysis Date:**		**10/05/10 05:16 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
TPH-DRO C10-C28		272	0.100	250.0	0	109	80	120			
Surr: Isopropylbenzene		13.8		12.50		110	80	120			
Surr: Octacosane		10.3		12.50		82.0	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_101006A

Sample ID:	**1009198-04C SD**	**Batch ID:**	**43289**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**SD**	**Run ID:**	**ICP-MS2_101006A**		**Analysis Date:**		**10/06/10 01:54 PM**		**Prep Date:**		**10/04/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chromium		<0.0100	0.0300	0	0				0	10	

Sample ID:	**1009198-04C PDS**	**Batch ID:**	**43289**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**PDS**	**Run ID:**	**ICP-MS2_101006A**		**Analysis Date:**		**10/06/10 01:59 PM**		**Prep Date:**		**10/04/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chromium		0.192	0.00600	0.200	0	96.0	75	125			

Sample ID:	**1009198-04C MS**	**Batch ID:**	**43289**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**MS**	**Run ID:**	**ICP-MS2_101006A**		**Analysis Date:**		**10/06/10 02:05 PM**		**Prep Date:**		**10/04/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chromium		0.182	0.00600	0.200	0	91.0	80	120			

Sample ID:	**1009198-04C MSD**	**Batch ID:**	**43289**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**MSD**	**Run ID:**	**ICP-MS2_101006A**		**Analysis Date:**		**10/06/10 02:10 PM**		**Prep Date:**		**10/04/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chromium		0.178	0.00600	0.200	0	89.2	80	120	2.00	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_101006A

Sample ID:	**ICV1-101006**	**Batch ID:**	**R51687**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**ICV**	**Run ID:**	**ICP-MS2_101006A**		**Analysis Date:**		**10/06/10 01:10 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chromium		0.101	0.00600	0.100	0	101	90	110			

Sample ID:	**CCV1-101006**	**Batch ID:**	**R51687**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS2_101006A**		**Analysis Date:**		**10/06/10 02:47 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chromium		0.195	0.00600	0.200	0	97.4	90	110			

Sample ID:	**CCV2-101006**	**Batch ID:**	**R51687**		**TestNo:**		**SW6020**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**ICP-MS2_101006A**		**Analysis Date:**		**10/06/10 03:47 PM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Chromium		0.197	0.00600	0.200	0	98.4	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_101004A

Sample ID:	**LCS-43280**	**Batch ID:**	**43280**	**TestNo:**	**SW8260B**	**Units:**	**mg/L**
SampType:	**LCS**	**Run ID:**	**GCMS5_101004A**	**Analysis Date:**	**10/04/10 11:34 AM**	**Prep Date:**	**10/04/10**

Analyte	**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
1,1,1,2-Tetrachloroethane	0.0228	0.00100	0.0232	0	98.4	80	130			
1,1,1-Trichloroethane	0.0244	0.00100	0.0232	0	105	65	130			
1,1,2,2-Tetrachloroethane	0.0218	0.00100	0.0232	0	94.1	65	130			
1,1,2-Trichloroethane	0.0250	0.00100	0.0232	0	108	75	125			
1,1-Dichloroethane	0.0251	0.00100	0.0232	0	108	70	135			
1,1-Dichloroethene	0.0242	0.00100	0.0232	0	104	70	130			
1,1-Dichloropropene	0.0262	0.00100	0.0232	0	113	75	130			
1,2,3-Trichlorobenzene	0.0207	0.00500	0.0232	0	89.4	55	140			
1,2,3-Trichloropropane	0.0215	0.00100	0.0232	0	92.8	75	125			
1,2,4-Trichlorobenzene	0.0209	0.00500	0.0232	0	90.1	65	135			
1,2,4-Trimethylbenzene	0.0227	0.00500	0.0232	0	98.0	75	130			
1,2-Dibromo-3-chloropropane	0.0198	0.0100	0.0232	0	85.4	50	130			
1,2-Dibromoethane	0.0242	0.00100	0.0232	0	104	80	120			
1,2-Dichlorobenzene	0.0224	0.00100	0.0232	0	96.8	70	120			
1,2-Dichloroethane	0.0236	0.00100	0.0232	0	102	70	130			
1,2-Dichloropropane	0.0260	0.00100	0.0232	0	112	75	125			
1,3,5-Trimethylbenzene	0.0219	0.00500	0.0232	0	94.4	75	130			
1,3-Dichlorobenzene	0.0226	0.00100	0.0232	0	97.6	75	125			
1,3-Dichloropropane	0.0236	0.00100	0.0232	0	102	75	125			
1,4-Dichloro-2-butene	0.0229	0.00200	0.0232	0	98.8	50	150			
1,4-Dichlorobenzene	0.0219	0.00100	0.0232	0	94.5	75	125			
2,2-Dichloropropane	0.0262	0.00100	0.0232	0	113	70	135			
2-Butanone	0.0240	0.0150	0.0232	0	104	30	150			
2-Chloroethylvinylether	0.0258	0.0150	0.0232	0	111	50	150			
2-Chlorotoluene	0.0230	0.00100	0.0232	0	99.2	75	125			
2-Hexanone	0.0235	0.0150	0.0232	0	101	55	130			
4-Chlorotoluene	0.0238	0.00100	0.0232	0	103	75	130			
4-Methyl-2-pentanone	0.0234	0.0150	0.0232	0	101	60	135			
Acetone	0.0329	0.0150	0.0232	0	142	40	140			S
Acrylonitrile	0.0531	0.00300	0.0464	0	114	50	150			
Benzene	0.0253	0.00100	0.0232	0	109	80	120			
Bromobenzene	0.0217	0.00100	0.0232	0	93.6	75	125			
Bromochloromethane	0.0260	0.00100	0.0232	0	112	65	130			
Bromodichloromethane	0.0244	0.00100	0.0232	0	105	75	120			
Bromoform	0.0230	0.00100	0.0232	0	99.3	70	130			
Bromomethane	0.0245	0.00100	0.0232	0	106	30	145			
Carbon disulfide	0.0247	0.0150	0.0232	0	107	35	160			
Carbon tetrachloride	0.0231	0.00100	0.0232	0	99.5	65	140			
Chlorobenzene	0.0227	0.00100	0.0232	0	97.8	80	120			
Chloroethane	0.0251	0.00100	0.0232	0	108	60	135			
Chloroform	0.0245	0.00100	0.0232	0	106	65	135			
Chloromethane	0.0248	0.00100	0.0232	0	107	40	125			
cis-1,2-Dichloroethene	0.0263	0.00100	0.0232	0	113	70	125			
cis-1,3-Dichloropropene	0.0268	0.00100	0.0232	0	116	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_101004A

Dibromochloromethane	0.0224	0.00100	0.0232	0	96.3	60	135
Dibromomethane	0.0244	0.00100	0.0232	0	105	75	125
Dichlorodifluoromethane	0.0205	0.00100	0.0232	0	88.5	30	155
Ethylbenzene	0.0233	0.00100	0.0232	0	100	75	125
Hexachlorobutadiene	0.0186	0.00300	0.0232	0	80.3	50	140
Iodomethane	0.0235	0.0150	0.0232	0	101	50	150
Isopropylbenzene	0.0234	0.00100	0.0232	0	101	75	125
m,p-Xylene	0.0494	0.00200	0.0464	0	106	75	130
Methyl tert-butyl ether	0.0269	0.00100	0.0232	0	116	65	125
Methylene chloride	0.0254	0.00250	0.0232	0	109	55	140
n-Butylbenzene	0.0205	0.00100	0.0232	0	88.3	70	135
n-Propylbenzene	0.0232	0.00100	0.0232	0	100	70	130
Naphthalene	0.0201	0.0150	0.0232	0	86.5	55	138
o-Xylene	0.0231	0.00100	0.0232	0	99.7	80	120
p-Isopropyltoluene	0.0216	0.00100	0.0232	0	93.2	75	130
sec-Butylbenzene	0.0224	0.00100	0.0232	0	96.3	70	125
Styrene	0.0225	0.00100	0.0232	0	96.9	65	135
tert-Butylbenzene	0.0232	0.00100	0.0232	0	99.8	70	130
Tetrachloroethene	0.0232	0.00200	0.0232	0	100	45	150
Toluene	0.0252	0.00200	0.0232	0	108	75	120
trans-1,2-Dichloroethene	0.0252	0.00100	0.0232	0	109	60	140
trans-1,3-Dichloropropene	0.0239	0.00100	0.0232	0	103	55	140
Trichloroethene	0.0248	0.00200	0.0232	0	107	70	125
Trichlorofluoromethane	0.0249	0.00100	0.0232	0	107	60	145
Vinyl chloride	0.0249	0.00100	0.0232	0	107	50	145
Surr: 1,2-Dichloroethane-d4	191		200.0		95.3	70	120
Surr: 4-Bromofluorobenzene	196		200.0		98.1	75	120
Surr: Dibromofluoromethane	201		200.0		100	85	115
Surr: Toluene-d8	190		200.0		95.0	85	120

Sample ID:	**MB-43280**	**Batch ID:**	**43280**	**TestNo:**	**SW8260B**	**Units:**	**mg/L**
SampType:	**MBLK**	**Run ID:**	**GCMS5_101004A**	**Analysis Date:**	**10/04/10 11:59 AM**	**Prep Date:**	**10/04/10**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	<0.000200	0.00100								
1,1,1-Trichloroethane	<0.000200	0.00100								
1,1,2,2-Tetrachloroethane	<0.000200	0.00100								
1,1,2-Trichloroethane	<0.000200	0.00100								
1,1-Dichloroethane	<0.000200	0.00100								
1,1-Dichloroethene	<0.000200	0.00100								
1,1-Dichloropropene	<0.000200	0.00100								
1,2,3-Trichlorobenzene	<0.00150	0.00500								
1,2,3-Trichloropropane	<0.000300	0.00100								
1,2,4-Trichlorobenzene	<0.00150	0.00500								
1,2,4-Trimethylbenzene	<0.00150	0.00500								
1,2-Dibromo-3-chloropropane	<0.00300	0.0100								
1,2-Dibromoethane	<0.000200	0.00100								
1,2-Dichlorobenzene	<0.000300	0.00100								

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_101004A

1,2-Dichloroethane	<0.000300	0.00100
1,2-Dichloropropane	<0.000200	0.00100
1,3,5-Trimethylbenzene	<0.00150	0.00500
1,3-Dichlorobenzene	<0.000300	0.00100
1,3-Dichloropropane	<0.000200	0.00100
1,4-Dichloro-2-butene	<0.00200	0.00200
1,4-Dichlorobenzene	<0.000300	0.00100
2,2-Dichloropropane	<0.000200	0.00100
2-Butanone	<0.00500	0.0150
2-Chloroethylvinylether	<0.00500	0.0150
2-Chlorotoluene	<0.000300	0.00100
2-Hexanone	<0.00500	0.0150
4-Chlorotoluene	<0.000300	0.00100
4-Methyl-2-pentanone	<0.00500	0.0150
Acetone	<0.00500	0.0150
Acrylonitrile	<0.00100	0.00300
Benzene	<0.000200	0.00100
Bromobenzene	<0.000200	0.00100
Bromochloromethane	<0.000200	0.00100
Bromodichloromethane	<0.000200	0.00100
Bromoform	<0.000200	0.00100
Bromomethane	<0.000300	0.00100
Carbon disulfide	<0.00500	0.0150
Carbon tetrachloride	<0.000200	0.00100
Chlorobenzene	<0.000200	0.00100
Chloroethane	<0.000300	0.00100
Chloroform	<0.000300	0.00100
Chloromethane	<0.000300	0.00100
cis-1,2-Dichloroethene	<0.000200	0.00100
cis-1,3-Dichloropropene	<0.000200	0.00100
Dibromochloromethane	<0.000200	0.00100
Dibromomethane	<0.000200	0.00100
Dichlorodifluoromethane	<0.000200	0.00100
Ethylbenzene	<0.000300	0.00100
Hexachlorobutadiene	<0.00100	0.00300
Iodomethane	<0.00500	0.0150
Isopropylbenzene	<0.000200	0.00100
m,p-Xylene	<0.000600	0.00200
Methyl tert-butyl ether	<0.000300	0.00100
Methylene chloride	<0.00250	0.00250
n-Butylbenzene	<0.000300	0.00100
n-Propylbenzene	<0.000300	0.00100
Naphthalene	<0.00500	0.0150
o-Xylene	<0.000300	0.00100
p-Isopropyltoluene	<0.000300	0.00100
sec-Butylbenzene	<0.000300	0.00100
Styrene	<0.000200	0.00100

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_101004A

tert-Butylbenzene	<0.000300	0.00100				
Tetrachloroethene	<0.000600	0.00200				
Toluene	<0.000600	0.00200				
trans-1,2-Dichloroethene	<0.000200	0.00100				
trans-1,3-Dichloropropene	<0.000200	0.00100				
Trichloroethene	<0.000600	0.00200				
Trichlorofluoromethane	<0.000200	0.00100				
Vinyl chloride	<0.000100	0.00100				
Surr: 1,2-Dichloroethane-d4	192		200.0	95.9	70	120
Surr: 4-Bromofluorobenzene	208		200.0	104	75	120
Surr: Dibromofluoromethane	199		200.0	99.7	85	115
Surr: Toluene-d8	197		200.0	98.3	85	120

Sample ID:	**1010010-02AMS**	**Batch ID:**	**43280**	**TestNo:**	**SW8260B**	**Units:**	**mg/L**
SampType:	**MS**	**Run ID:**	**GCMS5_101004A**	**Analysis Date:**	**10/04/10 08:33 PM**	**Prep Date:**	**10/04/10**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	10.8	0.500	11.6	0	93.4	80	130			
1,1,1-Trichloroethane	12.0	0.500	11.6	0	103	65	130			
1,1,2,2-Tetrachloroethane	10.8	0.500	11.6	0	92.8	65	130			
1,1,2-Trichloroethane	12.3	0.500	11.6	0	106	75	125			
1,1-Dichloroethane	12.3	0.500	11.6	0	106	70	135			
1,1-Dichloroethene	11.8	0.500	11.6	0	101	70	130			
1,1-Dichloropropene	12.3	0.500	11.6	0	106	75	130			
1,2,3-Trichlorobenzene	9.46	2.50	11.6	0	81.6	55	140			
1,2,3-Trichloropropane	10.6	0.500	11.6	0	91.8	75	125			
1,2,4-Trichlorobenzene	9.34	2.50	11.6	0	80.5	65	135			
1,2,4-Trimethylbenzene	10.8	2.50	11.6	0	93.2	75	130			
1,2-Dibromo-3-chloropropane	9.18	5.00	11.6	0	79.1	50	130			
1,2-Dibromoethane	10.9	0.500	11.6	0	94.0	80	120			
1,2-Dichlorobenzene	10.5	0.500	11.6	0	90.7	70	120			
1,2-Dichloroethane	11.8	0.500	11.6	0	101	70	130			
1,2-Dichloropropane	12.5	0.500	11.6	0	108	75	125			
1,3,5-Trimethylbenzene	10.5	2.50	11.6	0	90.5	75	130			
1,3-Dichlorobenzene	10.6	0.500	11.6	0	90.9	75	125			
1,3-Dichloropropane	10.8	0.500	11.6	0	92.9	75	125			
1,4-Dichloro-2-butene	9.96	1.00	11.6	0	85.8	50	150			
1,4-Dichlorobenzene	10.1	0.500	11.6	0	87.2	75	125			
2,2-Dichloropropane	11.9	0.500	11.6	0	102	70	135			
2-Butanone	12.9	7.50	11.6	0	111	30	150			
2-Chloroethylvinylether	8.60	7.50	11.6	0	74.1	50	150			
2-Chlorotoluene	10.6	0.500	11.6	0	91.7	75	125			
2-Hexanone	11.4	7.50	11.6	0	98.6	55	130			
4-Chlorotoluene	10.9	0.500	11.6	0	93.8	75	130			
4-Methyl-2-pentanone	12.0	7.50	11.6	0	103	60	135			
Acetone	14.1	7.50	11.6	0	121	40	140			
Acrylonitrile	25.7	1.50	23.2	0	111	50	150			
Benzene	27.9	0.500	11.6	15.9	104	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_101004A

Bromobenzene	10.1	0.500	11.6	0	87.0	75	125
Bromochloromethane	12.3	0.500	11.6	0	106	65	130
Bromodichloromethane	12.0	0.500	11.6	0	103	75	120
Bromoform	10.6	0.500	11.6	0	91.7	70	130
Bromomethane	9.08	0.500	11.6	0	78.2	30	145
Carbon disulfide	12.3	7.50	11.6	0	106	35	160
Carbon tetrachloride	11.5	0.500	11.6	0	99.4	65	140
Chlorobenzene	10.6	0.500	11.6	0	91.6	80	120
Chloroethane	13.1	0.500	11.6	0	113	60	135
Chloroform	12.0	0.500	11.6	0	103	65	135
Chloromethane	12.3	0.500	11.6	0	106	40	125
cis-1,2-Dichloroethene	12.3	0.500	11.6	0	106	70	125
cis-1,3-Dichloropropene	12.6	0.500	11.6	0	108	70	130
Dibromochloromethane	10.4	0.500	11.6	0	90.0	60	135
Dibromomethane	11.7	0.500	11.6	0	101	75	125
Dichlorodifluoromethane	10.3	0.500	11.6	0	88.5	30	155
Ethylbenzene	11.1	0.500	11.6	0.260	93.1	75	125
Hexachlorobutadiene	8.64	1.50	11.6	0	74.5	50	140
Iodomethane	10.4	7.50	11.6	0	89.8	50	150
Isopropylbenzene	10.8	0.500	11.6	0.345	89.7	75	125
m,p-Xylene	25.1	1.00	23.2	1.12	103	75	130
Methyl tert-butyl ether	13.1	0.500	11.6	0.590	108	65	125
Methylene chloride	12.6	1.25	11.6	0	109	55	140
n-Butylbenzene	9.68	0.500	11.6	0	83.5	70	135
n-Propylbenzene	10.9	0.500	11.6	0	94.0	70	130
Naphthalene	9.22	7.50	11.6	0	79.5	55	138
o-Xylene	11.3	0.500	11.6	0.760	90.5	80	120
p-Isopropyltoluene	9.92	0.500	11.6	0	85.5	75	130
sec-Butylbenzene	10.3	0.500	11.6	0	88.5	70	125
Styrene	10.3	0.500	11.6	0	89.0	65	135
tert-Butylbenzene	10.5	0.500	11.6	0	90.7	70	130
Tetrachloroethene	10.8	1.00	11.6	0	93.4	45	150
Toluene	16.8	1.00	11.6	4.38	107	75	120
trans-1,2-Dichloroethene	12.1	0.500	11.6	0	104	60	140
trans-1,3-Dichloropropene	11.3	0.500	11.6	0	97.7	55	140
Trichloroethene	12.0	1.00	11.6	0	103	70	125
Trichlorofluoromethane	12.6	0.500	11.6	0	108	60	145
Vinyl chloride	12.5	0.500	11.6	0	108	50	145
Surr: 1,2-Dichloroethane-d4	99300		100000		99.3	70	120
Surr: 4-Bromofluorobenzene	98500		100000		98.5	75	120
Surr: Dibromofluoromethane	102000		100000		102	85	115
Surr: Toluene-d8	93600		100000		93.6	85	120

Sample ID:	**1010010-02AMSD**	**Batch ID:**	**43280**	**TestNo:**	**SW8260B**	**Units:**	**mg/L**
SampType:	**MSD**	**Run ID:**	**GCMS5_101004A**	**Analysis Date:**	**10/04/10 08:58 PM**	**Prep Date:**	**10/04/10**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1,2-Tetrachloroethane	11.2	0.500	11.6	0	96.2	80	130	2.96	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_101004A

1,1,1-Trichloroethane	12.3	0.500	11.6	0	106	65	130	2.64	30	
1,1,2,2-Tetrachloroethane	11.2	0.500	11.6	0	96.5	65	130	3.92	30	
1,1,2-Trichloroethane	12.7	0.500	11.6	0	110	75	125	3.47	30	
1,1-Dichloroethane	12.6	0.500	11.6	0	109	70	135	2.64	30	
1,1-Dichloroethene	12.2	0.500	11.6	0	105	70	130	3.55	30	
1,1-Dichloropropene	13.0	0.500	11.6	0	112	75	130	5.88	30	
1,2,3-Trichlorobenzene	10.5	2.50	11.6	0	90.6	55	140	10.5	30	
1,2,3-Trichloropropane	10.8	0.500	11.6	0	93.4	75	125	1.72	30	
1,2,4-Trichlorobenzene	10.2	2.50	11.6	0	87.7	65	135	8.56	30	
1,2,4-Trimethylbenzene	11.3	2.50	11.6	0	97.0	75	130	3.99	30	
1,2-Dibromo-3-chloropropane	10.3	5.00	11.6	0	88.6	50	130	11.4	30	
1,2-Dibromoethane	11.5	0.500	11.6	0	99.2	80	120	5.35	30	
1,2-Dichlorobenzene	10.9	0.500	11.6	0	93.8	70	120	3.41	30	
1,2-Dichloroethane	12.2	0.500	11.6	0	106	70	130	4.00	30	
1,2-Dichloropropane	12.9	0.500	11.6	0	111	75	125	2.79	30	
1,3,5-Trimethylbenzene	10.8	2.50	11.6	0	92.8	75	130	2.54	30	
1,3-Dichlorobenzene	10.9	0.500	11.6	0	93.6	75	125	2.85	30	
1,3-Dichloropropane	11.5	0.500	11.6	0	99.5	75	125	6.90	30	
1,4-Dichloro-2-butene	9.82	1.00	11.6	0	84.7	50	150	1.37	30	
1,4-Dichlorobenzene	10.4	0.500	11.6	0	89.9	75	125	3.02	30	
2,2-Dichloropropane	12.2	0.500	11.6	0	105	70	135	2.37	30	
2-Butanone	13.6	7.50	11.6	0	117	30	150	4.98	30	
2-Chloroethylvinylether	9.08	7.50	11.6	0	78.2	50	150	5.43	30	
2-Chlorotoluene	11.2	0.500	11.6	0	96.2	75	125	4.82	30	
2-Hexanone	12.0	7.50	11.6	0	103	55	130	4.66	30	
4-Chlorotoluene	11.2	0.500	11.6	0	96.5	75	130	2.81	30	
4-Methyl-2-pentanone	12.9	7.50	11.6	0	111	60	135	7.04	30	
Acetone	17.5	7.50	11.6	0	151	40	140	21.5	30	S
Acrylonitrile	26.4	1.50	23.2	0	114	50	150	2.84	30	
Benzene	28.9	0.500	11.6	15.9	112	80	120	3.66	30	
Bromobenzene	10.5	0.500	11.6	0	90.4	75	125	3.79	30	
Bromochloromethane	12.7	0.500	11.6	0	109	65	130	2.72	30	
Bromodichloromethane	12.4	0.500	11.6	0	107	75	120	3.45	30	
Bromoform	10.8	0.500	11.6	0	93.5	70	130	1.91	30	
Bromomethane	9.06	0.500	11.6	0	78.1	30	145	0.165	30	
Carbon disulfide	12.6	7.50	11.6	0	109	35	160	2.48	30	
Carbon tetrachloride	11.7	0.500	11.6	0	101	65	140	1.33	30	
Chlorobenzene	11.1	0.500	11.6	0	95.5	80	120	4.19	30	
Chloroethane	13.5	0.500	11.6	0	116	60	135	2.82	30	
Chloroform	12.5	0.500	11.6	0	108	65	135	4.42	30	
Chloromethane	12.8	0.500	11.6	0	110	40	125	3.63	30	
cis-1,2-Dichloroethene	12.8	0.500	11.6	0	111	70	125	4.33	30	
cis-1,3-Dichloropropene	12.9	0.500	11.6	0	111	70	130	2.71	30	
Dibromochloromethane	10.7	0.500	11.6	0	92.1	60	135	2.32	30	
Dibromomethane	12.3	0.500	11.6	0	106	75	125	5.16	30	
Dichlorodifluoromethane	10.7	0.500	11.6	0	92.1	30	155	4.01	30	
Ethylbenzene	11.7	0.500	11.6	0.260	98.6	75	125	5.62	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_101004A

Hexachlorobutadiene	8.94	1.50	11.6	0	77.1	50	140	3.36	30
Iodomethane	11.9	7.50	11.6	0	103	50	150	13.4	30
Isopropylbenzene	11.2	0.500	11.6	0.345	93.1	75	125	3.65	30
m,p-Xylene	25.7	1.00	23.2	1.12	106	75	130	2.58	30
Methyl tert-butyl ether	14.0	0.500	11.6	0.590	116	65	125	6.34	30
Methylene chloride	13.5	1.25	11.6	0	116	55	140	6.33	30
n-Butylbenzene	10.0	0.500	11.6	0	86.2	70	135	3.20	30
n-Propylbenzene	11.2	0.500	11.6	0	96.6	70	130	2.76	30
Naphthalene	10.2	7.50	11.6	0	88.3	55	138	10.5	30
o-Xylene	11.8	0.500	11.6	0.760	95.4	80	120	4.89	30
p-Isopropyltoluene	10.2	0.500	11.6	0	87.7	75	130	2.54	30
sec-Butylbenzene	10.6	0.500	11.6	0	90.9	70	125	2.69	30
Styrene	10.5	0.500	11.6	0	90.3	65	135	1.44	30
tert-Butylbenzene	10.8	0.500	11.6	0	92.7	70	130	2.12	30
Tetrachloroethene	11.0	1.00	11.6	0	94.8	45	150	1.47	30
Toluene	17.2	1.00	11.6	4.38	110	75	120	2.03	0
trans-1,2-Dichloroethene	12.7	0.500	11.6	0	110	60	140	5.32	0
trans-1,3-Dichloropropene	11.7	0.500	11.6	0	101	55	140	3.47	0
Trichloroethene	12.3	1.00	11.6	0	106	70	125	2.89	0
Trichlorofluoromethane	12.9	0.500	11.6	0	111	60	145	2.71	30
Vinyl chloride	12.7	0.500	11.6	0	109	50	145	1.39	20
Surr: 1,2-Dichloroethane-d4	99400		100000		99.4	70	120	0	0
Surr: 4-Bromofluorobenzene	99000		100000		99.1	75	120	0	0
Surr: Dibromofluoromethane	103000		100000		103	85	115	0	0
Surr: Toluene-d8	94300		100000		94.3	85	120	0	0

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_101004A

Sample ID:	**ICV-101004**	**Batch ID:**	**R51640**		**TestNo:**		**SW8260B**		**Units:**		**mg/L**
SampType:	**ICV**	**Run ID:**	**GCMS5_101004A**		**Analysis Date:**		**10/04/10 10:51 AM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
1,1,1,2-Tetrachloroethane		0.0452	0.00100	0.0464	0	97.5	80	120			
1,1,1-Trichloroethane		0.0492	0.00100	0.0464	0	106	80	120			
1,1,2,2-Tetrachloroethane		0.0445	0.00100	0.0464	0	95.9	80	120			
1,1,2-Trichloroethane		0.0510	0.00100	0.0464	0	110	80	120			
1,1-Dichloroethane		0.0501	0.00100	0.0464	0	108	80	120			
1,1-Dichloroethene		0.0476	0.00100	0.0464	0	103	80	120			
1,1-Dichloropropene		0.0540	0.00100	0.0464	0	116	80	120			
1,2,3-Trichlorobenzene		0.0424	0.00500	0.0464	0	91.4	80	120			
1,2,3-Trichloropropane		0.0434	0.00100	0.0464	0	93.6	80	120			
1,2,4-Trichlorobenzene		0.0436	0.00500	0.0464	0	93.9	80	120			
1,2,4-Trimethylbenzene		0.0453	0.00500	0.0464	0	97.6	80	120			
1,2-Dibromo-3-chloropropane		0.0396	0.0100	0.0464	0	85.3	80	120			
1,2-Dibromoethane		0.0474	0.00100	0.0464	0	102	80	120			
1,2-Dichlorobenzene		0.0454	0.00100	0.0464	0	97.8	80	120			
1,2-Dichloroethane		0.0471	0.00100	0.0464	0	102	80	120			
1,2-Dichloropropane		0.0523	0.00100	0.0464	0	113	80	120			
1,3,5-Trimethylbenzene		0.0441	0.00500	0.0464	0	95.1	80	120			
1,3-Dichlorobenzene		0.0446	0.00100	0.0464	0	96.1	80	120			
1,3-Dichloropropane		0.0468	0.00100	0.0464	0	101	80	120			
1,4-Dichloro-2-butene		0.0489	0.00200	0.0464	0	105	80	120			
1,4-Dichlorobenzene		0.0422	0.00100	0.0464	0	91.1	80	120			
2,2-Dichloropropane		0.0548	0.00100	0.0464	0	118	80	120			
2-Butanone		0.0520	0.0150	0.0464	0	112	80	120			
2-Chloroethylvinylether		0.0512	0.0150	0.0464	0	110	80	120			
2-Chlorotoluene		0.0456	0.00100	0.0464	0	98.3	80	120			
2-Hexanone		0.0451	0.0150	0.0464	0	97.1	80	120			
4-Chlorotoluene		0.0476	0.00100	0.0464	0	103	80	120			
4-Methyl-2-pentanone		0.0474	0.0150	0.0464	0	102	80	120			
Acetone		0.0576	0.0150	0.0464	0	124	80	120			S
Acrylonitrile		0.108	0.00300	0.0928	0	117	60	140			
Benzene		0.0502	0.00100	0.0464	0	108	80	120			
Bromobenzene		0.0441	0.00100	0.0464	0	95.0	80	120			
Bromochloromethane		0.0512	0.00100	0.0464	0	110	80	120			
Bromodichloromethane		0.0498	0.00100	0.0464	0	107	80	120			
Bromoform		0.0462	0.00100	0.0464	0	99.7	80	120			
Bromomethane		0.0479	0.00100	0.0464	0	103	80	120			
Carbon disulfide		0.0499	0.0150	0.0464	0	108	80	120			
Carbon tetrachloride		0.0475	0.00100	0.0464	0	102	80	120			
Chlorobenzene		0.0443	0.00100	0.0464	0	95.5	80	120			
Chloroethane		0.0478	0.00100	0.0464	0	103	80	120			
Chloroform		0.0485	0.00100	0.0464	0	105	80	120			
Chloromethane		0.0475	0.00100	0.0464	0	102	80	120			
cis-1,2-Dichloroethene		0.0531	0.00100	0.0464	0	114	80	120			
cis-1,3-Dichloropropene		0.0560	0.00100	0.0464	0	121	80	120			S

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_101004A

Dibromochloromethane	0.0450	0.00100	0.0464	0	96.9	80	120	
Dibromomethane	0.0488	0.00100	0.0464	0	105	80	120	
Dichlorodifluoromethane	0.0409	0.00100	0.0464	0	88.1	80	120	
Ethylbenzene	0.0461	0.00100	0.0464	0	99.3	80	120	
Hexachlorobutadiene	0.0386	0.00300	0.0464	0	83.3	80	120	
Iodomethane	0.0452	0.0150	0.0464	0	97.5	80	120	
Isopropylbenzene	0.0459	0.00100	0.0464	0	99.0	80	120	
m,p-Xylene	0.0976	0.00200	0.0928	0	105	80	120	
Methyl tert-butyl ether	0.0562	0.00100	0.0464	0	121	80	120	S
Methylene chloride	0.0505	0.00250	0.0464	0	109	80	120	
n-Butylbenzene	0.0414	0.00100	0.0464	0	89.3	80	120	
n-Propylbenzene	0.0461	0.00100	0.0464	0	99.3	80	120	
Naphthalene	0.0429	0.0150	0.0464	0	92.5	80	120	
o-Xylene	0.0456	0.00100	0.0464	0	98.3	80	120	
p-Isopropyltoluene	0.0436	0.00100	0.0464	0	94.1	80	120	
sec-Butylbenzene	0.0437	0.00100	0.0464	0	94.2	80	120	
Styrene	0.0433	0.00100	0.0464	0	93.3	80	120	
tert-Butylbenzene	0.0458	0.00100	0.0464	0	98.6	80	120	
Tetrachloroethene	0.0458	0.00200	0.0464	0	98.8	80	120	
Toluene	0.0505	0.00200	0.0464	0	109	80	120	
trans-1,2-Dichloroethene	0.0509	0.00100	0.0464	0	110	80	120	
trans-1,3-Dichloropropene	0.0498	0.00100	0.0464	0	107	80	120	
Trichloroethene	0.0501	0.00200	0.0464	0	108	80	120	
Trichlorofluoromethane	0.0501	0.00100	0.0464	0	108	80	120	
Vinyl chloride	0.0496	0.00100	0.0464	0	107	80	120	
Surr: 1,2-Dichloroethane-d4	197		200.0		98.3	70	120	
Surr: 4-Bromofluorobenzene	196		200.0		98.0	75	120	
Surr: Dibromofluoromethane	204		200.0		102	85	115	
Surr: Toluene-d8	187		200.0		93.4	85	120	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_101005A

Sample ID:	**1010018-01C DUP**	**Batch ID:**	**43308**	**TestNo:**	**M4500-H+ B**	**Units:**	**pH Units**
SampType:	**DUP**	**Run ID:**	**TITRATOR_101005A**	**Analysis Date:**	**10/05/10 09:27 AM**	**Prep Date:**	**10/05/10**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
pH	7.27	0	0	7.280				0.137	5	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: TITRATOR_101005A

Sample ID:	**ICV-101005**	**Batch ID:**	**R51645**		**TestNo:**		**M4500-H+ B**		**Units:**		**pH Units**
SampType:	**ICV**	**Run ID:**	**TITRATOR_101005A**		**Analysis Date:**		**10/05/10 09:24 AM**		**Prep Date:**		**10/05/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
pH		9.99	0	10.00	0	99.9	99	101			

Sample ID:	**CCV1-101005**	**Batch ID:**	**R51645**		**TestNo:**		**M4500-H+ B**		**Units:**		**pH Units**
SampType:	**CCV**	**Run ID:**	**TITRATOR_101005A**		**Analysis Date:**		**10/05/10 09:34 AM**		**Prep Date:**		**10/05/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
pH		7.01	0	7.000	0	100	97.1	102.9			

Sample ID:	**CCV2-101005**	**Batch ID:**	**R51645**		**TestNo:**		**M4500-H+ B**		**Units:**		**pH Units**
SampType:	**CCV**	**Run ID:**	**TITRATOR_101005A**		**Analysis Date:**		**10/05/10 09:39 AM**		**Prep Date:**		**10/05/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
pH		7.01	0	7.000	0	100	97.1	102.9			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: TOC_101006A

Sample ID:	**LCS-43318**	**Batch ID:**	**43318**		**TestNo:**		**M5310C**		**Units:**		**mg/L**
SampType:	**LCS**	**Run ID:**	**TOC_101006A**		**Analysis Date:**		**10/06/10 10:51 AM**		**Prep Date:**		**10/06/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Total Organic Carbon		10.5	1.00	10.00	0	105	80	120			

Sample ID:	**MB-43318**	**Batch ID:**	**43318**		**TestNo:**		**M5310C**		**Units:**		**mg/L**
SampType:	**MBLK**	**Run ID:**	**TOC_101006A**		**Analysis Date:**		**10/06/10 11:28 AM**		**Prep Date:**		**10/06/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Total Organic Carbon		<0.300	1.00								

Sample ID:	**1010018-01A MS**	**Batch ID:**	**43318**		**TestNo:**		**M5310C**		**Units:**		**mg/L**
SampType:	**MS**	**Run ID:**	**TOC_101006A**		**Analysis Date:**		**10/06/10 01:30 PM**		**Prep Date:**		**10/06/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Total Organic Carbon		21.5	2.00	20.00	1.857	98.0	80	120			

Sample ID:	**1010018-01A MSD**	**Batch ID:**	**43318**		**TestNo:**		**M5310C**		**Units:**		**mg/L**
SampType:	**MSD**	**Run ID:**	**TOC_101006A**		**Analysis Date:**		**10/06/10 01:48 PM**		**Prep Date:**		**10/06/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Total Organic Carbon		21.2	2.00	20.00	1.857	96.7	80	120	1.27	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: TOC_101006A

Sample ID:	**ICV-101006**	**Batch ID:**	**R51669**		**TestNo:**		**M5310C**		**Units:**		**mg/L**
SampType:	**ICV**	**Run ID:**	**TOC_101006A**		**Analysis Date:**		**10/06/10 10:33 AM**		**Prep Date:**		**10/06/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Total Organic Carbon		14.9	1.00	15.00	0	99.6	90	110			

Sample ID:	**CCV-101006**	**Batch ID:**	**R51669**		**TestNo:**		**M5310C**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**TOC_101006A**		**Analysis Date:**		**10/06/10 02:06 PM**		**Prep Date:**		**10/06/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Total Organic Carbon		9.70	1.00	10.00	0	97.0	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_101001A

Sample ID:	**MB-43276**	**Batch ID:**	**43276**		**TestNo:**		**M3500-Cr D**		**Units:**		**mg/L**
SampType:	**MBLK**	**Run ID:**	**UV/VIS_2_101001A**		**Analysis Date:**		**10/01/10 10:30 AM**		**Prep Date:**		**10/01/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Hexavalent Chromium		<0.00800	0.0100								

Sample ID:	**LCS-43276**	**Batch ID:**	**43276**		**TestNo:**		**M3500-Cr D**		**Units:**		**mg/L**
SampType:	**LCS**	**Run ID:**	**UV/VIS_2_101001A**		**Analysis Date:**		**10/01/10 10:30 AM**		**Prep Date:**		**10/01/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Hexavalent Chromium		0.0969	0.0100	0.100	0	96.9	85	115			

Sample ID:	**LCSD-43276**	**Batch ID:**	**43276**		**TestNo:**		**M3500-Cr D**		**Units:**		**mg/L**
SampType:	**LCSD**	**Run ID:**	**UV/VIS_2_101001A**		**Analysis Date:**		**10/01/10 10:30 AM**		**Prep Date:**		**10/01/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Hexavalent Chromium		0.0993	0.0100	0.100	0	99.3	85	115	2.47	15	

Sample ID:	**1010002-02D MS**	**Batch ID:**	**43276**		**TestNo:**		**M3500-Cr D**		**Units:**		**mg/L**
SampType:	**MS**	**Run ID:**	**UV/VIS_2_101001A**		**Analysis Date:**		**10/01/10 10:30 AM**		**Prep Date:**		**10/01/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Hexavalent Chromium		0.143	0.0100	0.100	0.0389	104	85	115			

Sample ID:	**1010002-02D MSD**	**Batch ID:**	**43276**		**TestNo:**		**M3500-Cr D**		**Units:**		**mg/L**
SampType:	**MSD**	**Run ID:**	**UV/VIS_2_101001A**		**Analysis Date:**		**10/01/10 10:30 AM**		**Prep Date:**		**10/01/10**
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Hexavalent Chromium		0.146	0.0100	0.100	0.0389	107	85	115	1.49	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_101001A

Sample ID:	**ICV-101001**	**Batch ID:**	**R51616**		**TestNo:**		**M3500-Cr D**		**Units:**		**mg/L**
SampType:	**ICV**	**Run ID:**	**UV/VIS_2_101001A**		**Analysis Date:**		**10/01/10 10:30 AM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Hexavalent Chromium		0.0969	0.0100	0.100	0	96.9	90	110			

Sample ID:	**CCV-101001**	**Batch ID:**	**R51616**		**TestNo:**		**M3500-Cr D**		**Units:**		**mg/L**
SampType:	**CCV**	**Run ID:**	**UV/VIS_2_101001A**		**Analysis Date:**		**10/01/10 10:30 AM**		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Hexavalent Chromium		0.196	0.0100	0.200	0	98.0	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Zia Engineering & Environmental
Work Order: 1010002
Project: HELSTF Chromate Spill Groundwater

MQL SUMMARY REPORT

TestNo: SW8260B Analyte	MDL mg/L	MQL mg/L
1,1,1,2-Tetrachloroethane	0.000200	0.00100
1,1,1-Trichloroethane	0.000200	0.00100
1,1,2,2-Tetrachloroethane	0.000200	0.00100
1,1,2-Trichloroethane	0.000200	0.00100
1,1-Dichloroethane	0.000200	0.00100
1,1-Dichloroethene	0.000200	0.00100
1,1-Dichloropropene	0.000200	0.00100
1,2,3-Trichlorobenzene	0.00150	0.00500
1,2,3-Trichloropropane	0.000300	0.00100
1,2,4-Trichlorobenzene	0.00150	0.00500
1,2,4-Trimethylbenzene	0.00150	0.00500
1,2-Dibromo-3-chloropropane	0.00300	0.0100
1,2-Dibromoethane	0.000200	0.00100
1,2-Dichlorobenzene	0.000300	0.00100
1,2-Dichloroethane	0.000300	0.00100
1,2-Dichloropropane	0.000200	0.00100
1,3,5-Trimethylbenzene	0.00150	0.00500
1,3-Dichlorobenzene	0.000300	0.00100
1,3-Dichloropropane	0.000200	0.00100
1,4-Dichloro-2-butene	0.00200	0.00200
1,4-Dichlorobenzene	0.000300	0.00100
2,2-Dichloropropane	0.000200	0.00100
2-Butanone	0.00500	0.0150
2-Chloroethylvinylether	0.00500	0.0150
2-Chlorotoluene	0.000300	0.00100
2-Hexanone	0.00500	0.0150
4-Chlorotoluene	0.000300	0.00100
4-Methyl-2-pentanone	0.00500	0.0150
Acetone	0.00500	0.0150
Acrylonitrile	0.00100	0.00300
Benzene	0.000200	0.00100
Bromobenzene	0.000200	0.00100
Bromochloromethane	0.000200	0.00100
Bromodichloromethane	0.000200	0.00100
Bromoform	0.000200	0.00100
Bromomethane	0.000300	0.00100
Carbon disulfide	0.00500	0.0150
Carbon tetrachloride	0.000200	0.00100
Chlorobenzene	0.000200	0.00100
Chloroethane	0.000300	0.00100
Chloroform	0.000300	0.00100
Chloromethane	0.000300	0.00100
cis-1,2-Dichloroethene	0.000200	0.00100
cis-1,3-Dichloropropene	0.000200	0.00100
Dibromochloromethane	0.000200	0.00100
Dibromomethane	0.000200	0.00100
Dichlorodifluoromethane	0.000200	0.00100
Ethylbenzene	0.000300	0.00100
Hexachlorobutadiene	0.00100	0.00300
Iodomethane	0.00500	0.0150
Isopropylbenzene	0.000200	0.00100
m,p-Xylene	0.000600	0.00200
Methyl tert-butyl ether	0.000300	0.00100
Methylene chloride	0.00250	0.00250
n-Butylbenzene	0.000300	0.00100
n-Propylbenzene	0.000300	0.00100
Naphthalene	0.00500	0.0150
o-Xylene	0.000300	0.00100
p-Isopropyltoluene	0.000300	0.00100
sec-Butylbenzene	0.000300	0.00100
Styrene	0.000200	0.00100
tert-Butylbenzene	0.000300	0.00100
Tetrachloroethene	0.000600	0.00200
Toluene	0.000600	0.00200
trans-1,2-Dichloroethene	0.000200	0.00100
trans-1,3-Dichloropropene	0.000200	0.00100
Trichloroethene	0.000600	0.00200
Trichlorofluoromethane	0.000200	0.00100
Vinyl chloride	0.000100	0.00100

TestNo: M3500-Cr D Analyte	MDL mg/L	MQL mg/L
Hexavalent Chromium	0.00800	0.0100

TestNo: M8015D Analyte	MDL mg/L	MQL mg/L
TPH-DRO C10-C28	0.0500	0.100

TestNo: SW6020 Analyte	MDL mg/L	MQL mg/L
Chromium	0.00200	0.00600

TestNo: M5310C Analyte	MDL mg/L	MQL mg/L
Total Organic Carbon	0.300	1.00

Qualifiers:
MQL - Method Quantitation Limit as defined by TRRP
MDL - Method Detection Limit as defined by TRRP