



FIELD ACTIVITY REPORT

Report Number/Date:

5-11-09

Project Name: TRONOX Groundwater sampling

Project Number: 2009 2544 V1

Report By: DOUG DAVIS

Personnel: D. Davis / W. McKeeg

Location: TRONOX

Equipment: bandhos pump.

Client: TRONOX LLC

Weather: sunny

0600 - at GES, get drops from Rich, load truck

0650 - AT SITE locate DM4, do not have right keys for locks of BRG GAZES.

0730 AT PL108

0806 Collect sample PL108

0849 cannot locate BK3; may be buried in new battery grading.

0907 set up at HAW-15

0932 collect sample at HAW-15

1015 collect sample at HAW-13

1348 collect samples PL-79

1354 TO TRONOX TO Package samples.

1425 AT TRONOX DROPPING off SAMPLE

Printed Name/Signature: DOUG DAVIS



GEOTECHNICAL & ENVIRONMENTAL
SERVICES, INC.

7150 Placid Street Las Vegas, NV 89119
(702) 365-1001 • Fax (702) 341-7120
www.gesnevada.com

Groundwater Sampling Data Sheet

Well I.D. PC-79 Date: 5-11-09
 Sampler's Name: DONALD DAVIS
 Purging Equipment: 6 in. bit
 Sampling Equipment: 6 in. bit

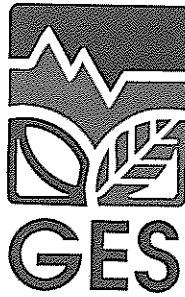
Casing Type: PVC **UNIT CASING VOLUMES**
 Casing Diameter: _____ inch 2" = 0.16 gal/lin ft.
 Total Well Depth: 42 feet 4" = 0.67 gal/lin ft.
 Depth to Water: - 10.5 feet 6" = 1.47 gal/lin ft.
 Water Column Thickness: = 31.5 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 5.04 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 16 gallons

Free product measurement (if present): _____

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
17.5	1315					23.1	7.37	partly cloudy
3.5	1320	X	X	X		22.7	7.39	water clearing
6.0	1325	X	X	X		22.4	7.36	clear
8.5	1330	X	X	X		22.6	7.37	
10	1335	X	X	X		22.0	7.37	
12.5	1340	X	X	X		22.5	7.36	
16	1347	X	X	X		22.7	7.36	
		X	X	X				

Total Water Volume Purged: 16.5 Gallons
 Depth to Water at Sample Collection: -
 Sample Collection Time: 1348
 Purged Dry (Y/N): N

Comments: Pumping approximately 0.5 gallons/min.



GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

7150 Placid Street Las Vegas, NV 89119
 (702) 365-1001 • Fax (702) 341-7120
 www.gesnevada.com

Groundwater Sampling Data Sheet

Well I.D. HMW-13 Date: 5-11-09
 Sampler's Name: Dove Dacos
 Purging Equipment: Gravel for
 Sampling Equipment: Gravel for
 Casing Type: PVC
 Casing Diameter: 2" inch
 Total Well Depth: 26.9 feet
 Depth to Water: - 19.6 feet
 Water Column Thickness: = 7.3 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 1.168 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 4 gallons

UNIT CASING VOLUMES

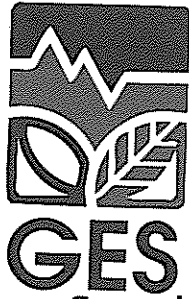
2" = 0.16 gal/lin ft.
 4" = 0.67 gal/lin ft.
 6" = 1.47 gal/lin ft.

Free product measurement (if present):

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
1	1000					22.2	7.53	clear
2.25	1005	X	X	X		21.8	7.62	
3.5	1010	X	X	X		21.5	7.64	
4.75	1015	X	X	X		21.5	7.64	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 4.75 Gallons
 Depth to Water at Sample Collection: -
 Sample Collection Time: 1015
 Purged Dry (Y/N): N

Comments: Well cover bent, casing broken approximately 3 feet down. Pumping approx. 0.25 gal/min



GEOTECHNICAL & ENVIRONMENTAL
SERVICES, INC.

7150 Placid Street Las Vegas, NV 89119
(702) 365-1001 • Fax (702) 341-7120
www.gesnevada.com

Groundwater Sampling Data Sheet

Well I.D. HMW-15 Date: 5-11-09
 Sampler's Name: Grand fos
 Purging Equipment: Grand fos
 Sampling Equipment: _____

Casing Type: PVC **UNIT CASING VOLUMES**
 Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
 Total Well Depth: 29.20 feet 4" = 0.67 gal/lin ft.
 Depth to Water: -10.87 feet 6" = 1.47 gal/lin ft.
 Water Column Thickness: = 18.33 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 2.93 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 8.90 gallons

Free product measurement (if present): _____

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
<u>2</u>	<u>0910</u>					<u>21.6</u>	<u>7.27</u>	
<u>3.5</u>	<u>0915</u>	X	X	X		<u>20.6</u>	<u>7.27</u>	
<u>5.0</u>	<u>0920</u>	X	X	X		<u>21.1</u>	<u>7.28</u>	<u>clear</u>
<u>6.5</u>	<u>0925</u>	X	X	X		<u>20.7</u>	<u>7.28</u>	
<u>8.0</u>	<u>0930</u>	X	X	X		<u>20.6</u>	<u>7.28</u>	
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 9 Gallons
 Depth to Water at Sample Collection: -
 Sample Collection Time: 0932
 Purged Dry (Y/N): N

Comments: Pumping approximately 0.3 gal/min.



GEOTECHNICAL & ENVIRONMENTAL
SERVICES, INC.

7150 Placid Street Las Vegas, NV 89119
(702) 365-1001 • Fax (702) 341-7120
www.gesnevada.com

Groundwater Sampling Data Sheet

Well I.D. PCA08 Date: 5-11-09
 Sampler's Name: Drew Davis
 Purging Equipment: low motor pump
 Sampling Equipment: low motor pump
 Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 39.00 feet
 Depth to Water: - 12.98 feet
 Water Column Thickness: = 26.02 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 4.16 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 12.5 gallons
 Free product measurement (if present): N/A

UNIT CASING VOLUMES

2" = 0.16 gal/lin ft.
 4" = 0.67 gal/lin ft.
 6" = 1.47 gal/lin ft.

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
2	0740					20.1	7.28	water cloudy
4	0745	X	X	X		20.3	7.36	
6	0750	X	X	X		20.1	7.30	water clearing
8	0755	X	X	X		20.3	7.30	
10	0800	X	X	X		20.3	7.31	clear water
12.5	0806	X	X	X		20.2	7.31	
		X	X	X				
		X	X	X				

Total Water Volume Purged: 12.5 Gallons
 Depth to Water at Sample Collection: —
 Sample Collection Time: 0806
 Purged Dry (Y/N): N

Comments: Bottom of well approximately 39 feet, TOC; try bottom with water level meter. Pump rate approx. 0.5 gallons/min.



750 Royal Oaks Dr, Suite 100, Monrovia, CA 91016-3629
(626) 568-6400 (800) 566-5227

MWLABS USE ONLY:

LOGIN COMMENTS:

SAMPLES CHECKED/LOGGED IN BY:

SAMPLE TEMP, RECEIPT AT LAB:

BLUE ICE: FROZEN PARTIALLY FROZEN THAWED

TO BE COMPLETED BY SAMPLER:

COMPANY / PROJECT NAME		PROJECT JOB # / P.O.#		REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES		(check for yes)	
Trinox LLC Sampler Doug Davis		Annual Groundwater Sampling - April / May		ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)			
Trinox LLC PO Box 55 Henderson, NV 89009		(702) 651-2234		PH			
Brian Ho / Susan Crowley		IDENTIFIER, STATE ID#		Specific Conductance			
		LOCATION		Total Chromium			
		DATE		Hexavalent Chromium			
		TIME		Perchlorate, ClO ₄			
				TDS			
				SAMPLER COMMENTS			
				COMP			
				GRAB			
				MATRIX *			
				RGW			
				RW			
				R6W			
				R6W			
				PC-108			
				HAW-15			
				HAW-13			
				PC-79			

Reported by Weight:

SO = Soil
SL = Sludge

Reported by Volume:

CFW = Chlor(am)inated Finished Water
FW = Other Finished Water

RGW = Raw Ground Water
RSW = Raw Surface Water

CWW = Chlorinated Waste Water
WW = Other Waste Water
SW = Storm Water

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RELINQUISHED BY:		COMPANY/TITLE	GPS / GEOLGIST	DATE	5-11-09	TIME	1424
RECEIVED BY:							
RELINQUISHED BY:							
RECEIVED BY:							

From: Origin ID: LASA (702) 651-2234
 Susan Crowley
 Tronox
 8000 West Lake Mead Parkway
 Henderson, NV 89015



J36110001302023

SHIP TO: (626) 386-1100 BILL SENDER

Sample Receiving
MWH Labs
750 ROYAL OAKS DR STE 100

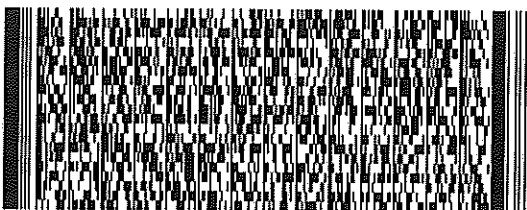
MONROVIA, CA 91016

Ship Date: 11MAY09
 ActWgt: 50.0 LB
 CAD: 7219287/INET9011
 Account#: S *****

Delivery Address Bar Code



Ref # annual water samples-10181.23
 Invoice #
 PO #
 Dept #

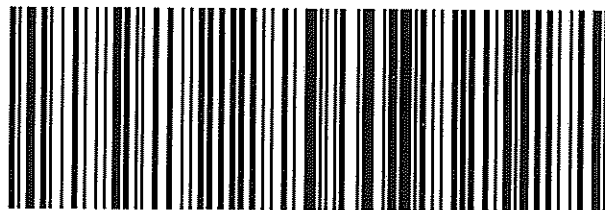


TRK# 7965 9660 0930
 0201

TUE - 12MAY A2
PRIORITY OVERNIGHT

QZ WHPA

91016
CA-US
BUR



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.