



# FIELD ACTIVITY REPORT

Report Number/Date:

19 MAY 09

Project Name:

TRONOX - ANNUAL SAMPLING

Project Number:

20092544V1

Report By:

V. HANSEN

Personnel:

V. HANSEN & W. McKEAG

Location:

TRONOX, HENDERSON NV

Equipment: BUCKBOOSTER SUBMERSIBLE,

WTM MULTILINE P-4

Client:

TRONOX

Weather:

CLIMBY, WINDY & WARM

1445: ARRIVE ON SITE

1500: FIND MW-39 & SET UP EQUIPMENT TO PURGE WELL.

1510: START FIELD PARAMETERS & COLLECT DATA

TAKE READINGS @:

1510, 1515, 1520, 1522.

1535: COLLECT SAMPLE

1600: PACK UP & EXIT TRONOX

Printed Name/Signature:

VICTORIA HANSEN

Page 1 of 1



### Groundwater Sampling Data Sheet

Well I.D. M-39 Date: 19 MAY 09  
 Sampler's Name: V. HANSEN ; W. McKEAG  
 Purging Equipment: BUCKBOOSTER 200' SUBMERSIBLE  
 Client: TRONOX Project No.: 20092544 V1

Casing Type: PVC **UNIT CASING VOLUMES**  
 Casing Diameter: 2.0" inch 2" = 0.16 gal/lin ft.  
 Total Well Depth: 37.59 feet 4" = 0.67 gal/lin ft.  
 Depth to Water: 31.81 feet 6" = 1.47 gal/lin ft.  
 Water Column Thickness: = 5.78 feet  
 Unit Casing Volume: x 0.16 gallon / foot  
 Casing Water Volume: x 0.9248 gallons  
 Casing Volume: x 3 each  
 Estimated Purge Volume: = 2.7744 gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
2.0	1510				8080	27.8	7.06	H <sub>2</sub> O COLOR PALE YELLOW
4.0	1515	X	X	X	8100	26.6	7.09	"
7.0	1520	X	X	X	8090	26.4	7.02	"
8.00	1522	X	X	X	8110	26.7	7.09	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 10 Gallons  
 Depth to Water at Sample Collection: 31.86  
 Sample Collection Time: 1535  
 Purged Dry (Y/N): N

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





MWH Laboratories, a Division of MWH Americas, Inc.  
 750 Royal Oaks Avenue Suite 100  
 Monrovia CA 91016 (626) 386-1100 FAX (626) 386-1124

**Bottle Order for Ironox LLC - Henderson**

Andrew Eaton ..... Your MWL Project Manager  
 (626) 386-1125 ..... Direct Phone/Voice Mail

Client Code KERRMCGEE-MP  
 Project Code CLO4  
 PO# / Job# GWREMEDIATION  
 Blanket PO

Period

M Monthly

SO# 47684 12374 RS

**Sampler: Please Return this Paper with your samples**

Created by GJY

Order Date

04/16/09

Date Needed by Client

Ship Sample Kits to  
 Veolia Water-Tronox LLC  
 Gate 1  
 8000 West Lake Mead Drive  
 Henderson, NV 89015

Send Report to

Ironox LLC Henderson Plant  
 P.O. Box 55  
 Henderson, NV 89009

Billing Address

Ironox LLC  
 Attn: Accounts Payable  
 P.O. Box 268859  
 Oklahoma City, OK 73126-8859

Date Samples to Arrive at MWL

ATTN: Susan Crowley  
 PHONE: 702-651-2234

ATTN: Susan Crowley  
 PHONE: 702-651-2234  
 FAX: 702-651-2310

Quote#

GJY

SHIP LOCATION

# of Samples

Tests

Bottles-Qty for each sample, type & preservative if any

UN#

Important Comments

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
41	CLO4, TDS	1 250 ml poly /no preservative		These sites are monthly till further notice.
	SHEET OF LABELS WITH WELL-IDS	see comments section		Shipping - please send bottles in cooler rather than a box
				PC-86, PC-89, PC-91, PC-95, PC-97, PC-10, PC-12, PC-17, PC-18, PC-55, PC-101R L-635, L-637 MW-K2, MW-K4 ARP-1, ARP-2, ARP-3, ARP-4 ARP-5, ARP-6, ARP-7, PC-53 PC-103, MW-K5, M-83 M-87, PC-98R; PC-56, PC-58; PC-59, PC-60, PC-62, PC-68, PC-122
				<b>Do NOT</b> prelabel bottles with site, but provide pre-printed labels for client to stick on
				EXTRA BOTTLES INCLUDED
				client code changed 7/25/03
				bottle order and IDs updated 9/9/03

ActiveCode Status Date Shipped Qty of Coolers Tracking Number

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



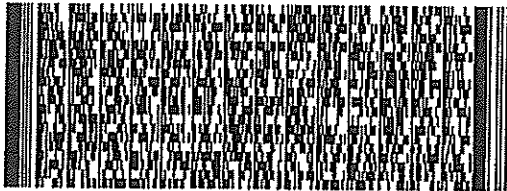
Ship Date: 19MAY09  
 ActWgt: 50.0 LB  
 CAD: 7218287/NET9011  
 Account#: S \*\*\*\*\*

Delivery Address Bar Code



SHIP TO: (626) 386-1100 BILL SENDER  
**Sample Receiving**  
**MWH Labs**  
**750 ROYAL OAKS DR STE 100**  
  
**MONROVIA, CA 91016**

Ref #  
 Invoice #  
 PO #  
 Dept #

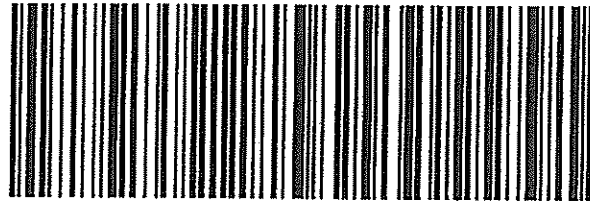


TRK# 7966 2072 5820  
 0201

WED - 20MAY A2  
**PRIORITY OVERNIGHT**

**QZ WHPA**

91016  
 CA-US  
 BUR



**After printing this label:**

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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.

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FIELD ACTIVITY REPORT

Report Number/Date:

5-19-09

Project Name:

TRONOX Gw Sampling

Project Number:

20092544X1

Report By:

DAVIS

Personnel:

DAVIS / Qualls

Location:

VARIOUS

Equipment:

Grundfos

Client:

TRONOX

Weather:

Sunny

0847 - Locate PC-64: IN FRONT OF 1449 PALM APPROXIMATELY 100' SOUTH OF BARRETT/PALM INTERSECTION (GPS COORDINATES ARE GOOD).

WELL ON EAST SIDE OF PALM. UNDER PARKED CAR. SAMPLE AT LATER DATE.

0914 Locate HSS coordinates good @ East end of open field ENE from Toyota, ~50 feet from fence around construction area, steel casing stick up ~2'

1018 - collect sample at HSS

Collect Field Blank and Equipment blank at this well.

1045 - Go back to PC-64; car still parked as well.

1101 - AT PC-82, 83, 84. PC-84 is cased in (abandoned?) will get water level for PC-83, sample PC-82

1140 - Collect sample at PC-82; FB 051909-2 also collected.

1251 - Attempting to locate L641 and to LK3 near intersection of Moser and Sunset. using Garmin. Go to coordinates for L641 - located in area of recent road work - BURIED - Go to coordinates for LK3. THERE ARE two wells near the coordinates - Based on map appear to be LK5 and LK6. - LK4, LK5, LK6 and LK3 ARE all close together. Cannot get accurate enough with Garmin. For now, consider LK3 UNLOCATED.

1353 - Attempt to locate PC-111; find bentonite at coordinates but no well. Appears to be either overgrown by salt cedar or buried in recent flood deposits. Off to deliver samples to Tronox.

Printed Name/Signature: Doug Davis

Page 1 of 1



**Groundwater Sampling Data Sheet**

Well I.D. PL-80 Date: 5-18-09  
 Sampler's Name: D. Davis  
 Purging Equipment: \_\_\_\_\_  
 Client: \_\_\_\_\_ Project No.: \_\_\_\_\_

Casing Type: PVC  
 Casing Diameter: 2 inch **UNIT CASING VOLUMES**  
 Total Well Depth: \_\_\_\_\_ feet 2" = 0.16 gal/lin ft.  
 Depth to Water: - 10.51 feet 4" = 0.67 gal/lin ft.  
 Water Column Thickness: = \_\_\_\_\_ feet 6" = 1.47 gal/lin ft.  
 Unit Casing Volume: x \_\_\_\_\_ gallon / foot  
 Casing Water Volume: x \_\_\_\_\_ gallons  
 Casing Volume: x 3 each  
 Estimated Purge Volume: = \_\_\_\_\_ gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: \_\_\_\_\_ Gallons  
 Depth to Water at Sample Collection: \_\_\_\_\_  
 Sample Collection Time: \_\_\_\_\_  
 Purged Dry (Y/N): \_\_\_\_\_

Comments: Water level only  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Groundwater Sampling Data Sheet**

Well I.D. PC-01 Date: 5-10-09  
 Sampler's Name: D. Davis  
 Purging Equipment: \_\_\_\_\_  
 Client: \_\_\_\_\_ Project No.: \_\_\_\_\_

Casing Type: PVC  
 Casing Diameter: 2 inch  
 Total Well Depth: \_\_\_\_\_ feet  
 Depth to Water: - 10.42 feet  
 Water Column Thickness: = \_\_\_\_\_ feet  
 Unit Casing Volume: x \_\_\_\_\_ gallon / foot  
 Casing Water Volume: x \_\_\_\_\_ gallons  
 Casing Volume: x 3 each  
 Estimated Purge Volume: = \_\_\_\_\_ gallons

**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
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: \_\_\_\_\_ Gallons  
 Depth to Water at Sample Collection: \_\_\_\_\_  
 Sample Collection Time: \_\_\_\_\_  
 Purged Dry (Y/N): \_\_\_\_\_

Comments: water level only.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





**Groundwater Sampling Data Sheet**

Well I.D. H55 Date: 5-19-09  
 Sampler's Name: Davis / Qualls  
 Purging Equipment: Grubbs  
 Client: TRONOX Project No.: 20092544 V1

Casing Type: PVC **UNIT CASING VOLUMES**  
 Casing Diameter: ~6 inch 2" = 0.16 gal/lin ft.  
 Total Well Depth: 46.87 feet 4" = 0.67 gal/lin ft.  
 Depth to Water: - 41.26 feet 6" = 1.47 gal/lin ft.  
 Water Column Thickness: = 5.61 feet  
 Unit Casing Volume: x 1.47 gallon / foot  
 Casing Water Volume: x 8.24 gallons  
 Casing Volume: x 3 each  
 Estimated Purge Volume: = 25 gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
<u>1.5</u>	<u>0935</u>					<u>26.6</u>	<u>7.25</u>	<u>TRANSLUCENT, DARK GRAY</u>
<u><del>6.5</del> 7.5</u>	<u>0948</u>	X	X	X		<u>26.7</u>	<u>6.95</u>	
<u>8.5</u>	<u>1018</u>	X	X	X		<u>27.0</u>	<u>6.65</u>	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: ~~8~~ Gallons  
 Depth to Water at Sample Collection: 46  
 Sample Collection Time: 1018  
 Purged Dry (Y/N): YES - ~8 gallons

Comments: Draw down water below pump after purging 6.5 gallons. Lower pump. Purge dry at approx 8 gallons. Let water come up to 46 feet toe, Sample



**GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.**  
 (702) 365-1001  
 7150 Placid Street  
 Las Vegas, NV 89119  
 www.gesnevada.com

**Groundwater Sampling Data Sheet**

Well I.D. PC-83 Date: 5-19-09  
 Sampler's Name: Qahs  
 Purging Equipment: \_\_\_\_\_  
 Client: \_\_\_\_\_ Project No.: 2009 2544 41

Casing Type: PVC **UNIT CASING VOLUMES**  
 Casing Diameter: \_\_\_\_\_ inch 2" = 0.16 gal/lin ft.  
 Total Well Depth: \_\_\_\_\_ feet 4" = 0.67 gal/lin ft.  
 Depth to Water: 8.07 feet 6" = 1.47 gal/lin ft.  
 Water Column Thickness: = \_\_\_\_\_ feet  
 Unit Casing Volume: x \_\_\_\_\_ gallon / foot  
 Casing Water Volume: x \_\_\_\_\_ gallons  
 Casing Volume: x 3 each  
 Estimated Purge Volume: = \_\_\_\_\_ gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: \_\_\_\_\_ Gallons  
 Depth to Water at Sample Collection: \_\_\_\_\_  
 Sample Collection Time: \_\_\_\_\_  
 Purged Dry (Y/N): \_\_\_\_\_

Comments: water level only -  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Groundwater Sampling Data Sheet**

Well I.D. PC-02 Date: 5-19-09  
 Sampler's Name: Davis / Dualls  
 Purging Equipment: Grundfos  
 Client: Tromox Project No.: 20092544V1

Casing Type: PVC **UNIT CASING VOLUMES**  
 Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.  
 Total Well Depth: 58.25 feet 4" = 0.67 gal/lin ft.  
 Depth to Water: - 8.59 feet 6" = 1.47 gal/lin ft.  
 Water Column Thickness: = 49.66 feet  
 Unit Casing Volume: x 0.16 gallon / foot  
 Casing Water Volume: x 7.94 gallons  
 Casing Volume: x 3 each  
 Estimated Purge Volume: = 24 gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celsius)	pH	Observations
<u>1</u>	<u>1118</u>					<u>23.0</u>	<u>7.37</u>	<u>slightly cloudy</u>
<u>2.5</u>	<u>1123</u>	X	X	X		<u>23.6</u>	<u>7.40</u>	<u>clear</u>
<u>3.0</u>	<u>1128</u>	X	X	X		<u>24.1</u>	<u>7.44</u>	<u>clear</u>
<u>4.0</u>	<u>1133</u>	X	X	X		<u>23.1</u>	<u>7.46</u>	
<u>4.5</u>	<u>1138</u>	X	X	X		<u>24.4</u>	<u>7.46</u>	
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 Gallons  
 Depth to Water at Sample Collection: \_\_\_\_\_  
 Sample Collection Time: 1140  
 Purged Dry (Y/N): N

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



MWH Laboratories, a Division of MWH Americas, Inc.  
 750 Royal Oaks Avenue Suite 100  
 Monrovia CA 91016 (626) 386-1100 FAX (626) 386-1124

**Bottle Order for Tronox, LLC - Henderson**  
 Standing

Address: Eaton  
 (626) 386-1125  
 Your MWL Project Manager  
 Direct Phone/Voice Mail

Client Code KERRMCGEE-MP  
 Project Code CLO4  
 PO# / Job# GWREMEDIATION  
 Blanket PO

SO# 47684 12374 RS

**Sampler: Please Return this Paper with your samples**

Created by GJY  
 Order Date 04/16/09  
 Date Needed by Client  
 Date Samples to Arrive at MWL  
 SHIP LOGGATION

Ship Sample Kits to  
 Veolia Water-Tronox LLC  
 Gate 1  
 8000 West Lake Mead Drive  
 Henderson, NV 89015

Send Report to  
 Tronox, LLC, Henderson Plant  
 P.O. Box 55  
 Henderson, NV 89009

ATTN: SUSAN CROWLEY  
 PHONE: 702-651-2234  
 ATTN: SUSAN CROWLEY  
 PHONE: 702-651-2234  
 FAX: 702-651-2310

**Quote#**

GJY

# of Samples Tests Bottles-Qty for each sample, type & preservative if any UN# Important Comments

# of Samples	Tests	Bottles-Qty for each sample, type & preservative if any	UN#	Important Comments
41	CLO4, TDS	1 250 ml poly /no preservative		These sites are monthly till further notice.
	SHEET OF LABELS WITH WELL-IDS	see comments section		Shipping - please send bottles in cooler rather than a box
				PC-86, PC-89, PC-91, PC-95, PC-97, PC-10, PC-12, PC-17, PC-18, PC-55, PC-101R
				L-635, L-637
				MW-K2, MW-K4
				ARP-1, ARP-2, ARP-3, ARP-4
				ARP-5, ARP-6, ARP-7, PC-53
				PC-103, MW-K5, M-83
				M-87, PC-98R; PC-56, PC-58;
				PC-59, PC-60, PC-62, PC-68, PC-122
				<b>DO NOT</b> prelabel bottles with site, but provide pre-printed labels for client to stick on
				EXTRA BOTTLES INCLUDED
				client code changed 7/25/03
				bottle order and IDs updated 9/9/03

ActiveCode Status Date Shipped Qty of Coolers Tracking Number



# CHAIN OF CUSTODY RECORD

MONTGOMERY WATSON LABORATORIES



RW LABS USE ONLY:

750 Royal Oaks Dr, Suite 100, Menlo Park, CA 94025-3629

(826) 568-6400 (800) 566-5227

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.#

Annual Groundwater Sampling - April / May

REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES

(check for yes)

ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)

TIME	DATE	LOCATION	IDENTIFIER, STATE ID#	MATRIX	GRAB	COMP	PH	Specific Conductance	Total Chromium	Hexavalent Chromium	Perchlorate, ClO <sub>4</sub>	TDS	SAMPLER COMMENTS
0924	5-19-09	FB051909	Tronox LLC PO Box 55 Henderson, NV 89009	RGW	X		X	X	X	X	X	X	TOTAL
1018	5-19-09	HSS		RGW	X		X	X	X	X	X	X	GR-
1027	5-19-09	28051909		RGW	X		X	X	X	X	X	X	W01 H09
1110	5-19-09	FB051909-2		RGW	X		X	X	X	X	X	X	
1140	5-19-09	PC-92		RGW	X		X	X	X	X	X	X	
/													

\* MATRIX TYPES:

Reported by Volume:

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

Reported by Weight:

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

SIGNATURE

PRINT NAME

COMPANY/TITLE

DATE

TIME

RELINQUISHED BY: <i>[Signature]</i>	<i>Dave Davis</i>	<i>Dave Davis</i>	<i>GES / GEOL06157</i>	<i>5-19-09</i>	<i>1424</i>
RECEIVED BY:					
RELINQUISHED BY:					
RECEIVED BY:					

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



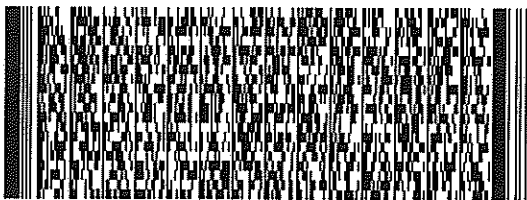
Ship Date: 19MAY09  
 ActWgt: 50.0 LB  
 CAD: 7219287/INET9011  
 Account#: S \*\*\*\*\*

Delivery Address Bar Code



SHIP TO: (626) 386-1100 BILL SENDER  
**Sample Receiving**  
**MWH Labs**  
**750 ROYAL OAKS DR STE 100**  
**MONROVIA, CA 91016**

Ref #  
 Invoice #  
 PO #  
 Dept #

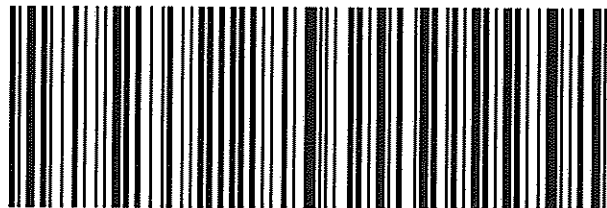


TRK# 7966 2072 5820  
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