

Location TRONOX, CAMU, HENDERSON, NV Date 9 JUNE 09
Project / Client TRONOX PHASE B & ANNUAL RCRA,
TRONOX, LLC GROUNDWATER SAMPLING

1030 PARAMETERS STABILIZED & CAN NOW COLLECT SAMPLE.

* TAKE SAMPLE FROM 1045 - 1200 (RR) *
TAKE FINAL PARAMETERS @ 1155 @ 1205
1210 DANA OFFSITE ; DARGEN LEAVES
SITE TO GET NEW N₂ TANK.
ANNUAL SAMPLE MUST STILL BE COLLECTED.
1235 DARGEN BACK ON SITE @ N₂ BACK OXLINE
1245 GAL PURGED FROM WELL @ THIS POINT IN TIME.

* 1045 SAMPLE TAKEN FOR PHASE B ; ANALYTES INCLUDE : VOCs, TOC, SiO₂, ORGANO-CHLORINE PESTICIDES, TOTAL METALS, ClO₄, CHLORATE, Cr+6, NH₃ & TP₂, CEN, RADIONUCLIDES, ANIONS & TDS, MBAS, ALKALINITY, PH & TDS.

1245 STILL PURGING WELL @ STABILIZING PARAMETERS
PARAMETERS FOR RCRA SAMPLING TAKEN @ 1300 @ 1305
SAMPLE TAKEN @ 1310 ; ANALYTES INCLUDE: TOC, TOX, PH & EC, TDS, ClO₄, SO₄ & Cl, PHENOLS & METALS.

Location TRONOX, CAMU, HENDERSON, NV Date 9 JUNE 09
Project / Client TRONOX PHASE B & ANNUAL / RCRA
GROUNDWATER SAMPLING ; TRONOX, LLC

1330 FINISH SAMPLING FOR ANNUAL / RCRA CLEAN UP SITE ; PACK UP EQUIPMENT
1345 : DISPOSE OF SOLID WASTE @ TPE, VANDERBILT & TUBING @ CAMU PHASE 2 TPE TRASH DISPOSAL UNIT.
LIQUID WASTE = SALVAGE OF PURGE H₂O NOT DISPOSED OF TODAY.
1400 : LEAVE CAMU @ HEAD BACK TO GIES
PROBLEMS ENCOUNTERED & SOLVED :
- EXHAUST & DUST EMISSIONS FROM HAUL TRUCKS ; SOLVED BY NOT SAMPLING AS TRUCKS MOVED PAST & WAITING 30-45 SECONDS BEFORE RESUMING SAMPLING.
- UNSTABLE DO & DEP READINGS ; WILL START USING THE YSI 556 MP5 MULTI-PROBE FIELD METER
EQUIPMENT USED FOR THE DAY : GASTECH BARRIER PUMP & CONTROLLER, SOLINIST 200 WATER LEVEL METER, KELK 150' DROP DOWN METER, HACH DO, 2100P, DEP POCKET PAL
- NO FURTHER ENTRIES.





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

Groundwater Sampling Data Sheet

Well I.D. H-28A Date: 9 June 09
 Sampler's Name: VICTORIA HANSEN
 Purging Equipment: GEOTECH BLADDER PUMP CONTROLLER
 Client: TRONOX, LLC Project No.: 200925-44V1

Casing Type: PVC
 Casing Diameter: 2.0" Inch
 Total Well Depth: 48.24 feet
 Depth to Water: 38.65 feet
 Water Column Thickness: = 9.59 feet
 Unit Casing Volume: x 0.17 gallon / foot
 Casing Water Volume: x 1.63 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 4.89 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
20	1300				1220	78.6	7.11	760 clean
20	1300	X	X	X	1240	78.7	7.07	"
21	1305	X	X	X	1248	78.4	7.09	"
21	1305	X	X	X	1251	77.9	7.08	"
21	1305	X	X	X	1253	78.1	7.08	"
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 24 Gallons
 Depth to Water at Sample Collection: 38.57'
 Sample Collection Time: 1310
 Purged Dry (Y/N): No.

Comments: WELL H-28A PURGED FOR PHASE B SAMPLING;
PLEASE USE THE 20 GAL PURGE VOLUME.



Groundwater Sampling Data Sheet

Well I.D. TR-1 Date: 6-9-09
 Sampler's Name: Davis
 Purging Equipment: Artesian
 Client: TRONOX Project No.: 20092544V1
 Casing Type: PVC
 Casing Diameter: 4 inch
 Total Well Depth: 312 feet
 Depth to Water: +25.41 feet *11 psi*
 Water Column Thickness: = 337.41 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: Well originally sampled on 6-16-09.
Corrected data sheet for water column thickness.



Groundwater Sampling Data Sheet

Well I.D. TR-3 Date: 6-9-09
 Sampler's Name: Davis/Mikeas
 Purging Equipment: Portable Bladder pump
 Client: TRINLOX Project No.: 20092546 v1

Casing Type: PVC **UNIT CASING VOLUMES**
 Casing Diameter: 4 inch 2" = 0.16 gal/lin ft.
 Total Well Depth: 251.5 feet 4" = 0.67 gal/lin ft.
 Depth to Water: + 9.24 feet 4 psi 6" = 1.47 gal/lin ft.
 Water Column Thickness: = 260.74 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
0.5	0725					23.7	7.82	clear
0.75	0730	X	X	X		24.6	7.88	clear
1.0	0735	X	X	X		24.2	7.89	clear
1.5	0740	X	X	X		24.3	7.92	clear
1.75	0745	X	X	X		24.5	7.90	clear
2.0	0750	X	X	X		24.2	7.92	clear
		X	X	X				
		X	X	X				

Total Water Volume Purged: 2.0 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0752
 Purged Dry (Y/N): N

Comments: Well sampled on 6-4-09. Corrected data sheets
FOR WATER COLUMN THICKNESS



Groundwater Sampling Data Sheet

Well I.D. TR-12 Date: 6-9-09
 Sampler's Name: DAVIS
 Purging Equipment: ARTESIAN
 Client: TRUNOX Project No.: 2009 2544 v1
 Casing Type: PVC **UNIT CASING VOLUMES**
 Casing Diameter: 4 inch 2" = 0.16 gal/lin ft.
 Total Well Depth: 293 feet 4" = 0.67 gal/lin ft.
 Depth to Water: +31.2 feet 13.5 psi 6" = 1.47 gal/lin ft.
 Water Column Thickness: = 324.2 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
	<u>0904</u>					<u>28.2</u>	<u>8.34</u>	<u>clear</u>
		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: 6.52 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0905
 Purged Dry (Y/N): N

Comments: Well originally sampled on 6-1-09
Corrected data sheet for water column thickness.



Groundwater Sampling Data Sheet

Well I.D. TR-11 Date: 6-9-09
 Sampler's Name: DAVIS
 Purging Equipment: ARTESIAN
 Client: TRONOX Project No.: 20092544V1
 Casing Type: PVC
 Casing Diameter: 4 inch
 Total Well Depth: 255 feet
 Depth to Water: + 9.24 feet 4 psi
 Water Column Thickness: = 264.24 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
	<u>0.847</u>					<u>25.7</u>	<u>7.87</u>	<u>clear</u>
		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: 5.31 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0.847
 Purged Dry (Y/N): N

Comments: Well originally sampled on 6-1-09.
corrected data sheet for water column thickness

Tronox Artesian Wells

Well ID	psi	DTW (PSI*2.31)
TR-11	4	9.24
TR-12	13.5	31.185
TR-1	11	25.41
TR-3	4	9.24



CHAIN OF CUSTODY RECORD

MVLABS USE ONLY:

750 Royal Oaks dr. Suite 100 Monrovia, Ca., 91016-3629
(626) 386-1100 (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: KERRMCGEE-MP PROJECT JOB # / P.O.#: _____

Sampler Signature: *Victoria Hansen* / *RES* Tonox LLC - Henderson Plant

Susan Crowley (702) 651-2234 Henderson, NV 89009

IDENTIFIER, STATE ID#: H-28A

LOCATION: TRONOX

DATE: 6/9/03

TIME: 1310

MATRIX: RGW

COMP: GRAB X

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

TOC9050	TOX	pH 9040, EC 9050	TDS	Clor	SO49056, CL9056	Phenol96	NA CR, FE, MN (all 6010)	SAMPLER COMMENTS
X	X	X	X	X	X	X	X	# of BOTTLES
								TRONOX = 7
								TRONOX = 1
								PH/EC = 4
								TDS = 1
								Clor = 1
								SO4/EC = 1
								Phenol = 1
								GCNO = 1
								14 BOTTLES TOTAL

* MATRIX TYPES: Reported by Volume: CFW = Chlor(am)inated Finished Water, FW = Other Finished Water

Reported by Weight: SO = Soil, SL = Sludge

RGW = Raw Ground Water, RSW = Raw Surface Water

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

RELINQUISHED BY: *Susan Crowley* SIGNATURE

RECEIVED BY: _____

RELINQUISHED BY: _____

RECEIVED BY: _____

DATE: 6/9/03

TIME: 1:00 PM

COMPANY/TITLE: Victoria Hansen / RES

Macie Water-NA for Tronox LLC - Henderson Plant

C-O-C# _____

From: Origin IL: LASA (/U2) 051-2234
Susan Crowley
Tronox
560 West Lake Mead Parkway

Henderson, NV 89015



20011000120323

Ship Date: 08JUN09
ActWgt: 35.0 LB
CAD: 7219287/NET9011
Account#: S*****

Delivery Address Bar Code

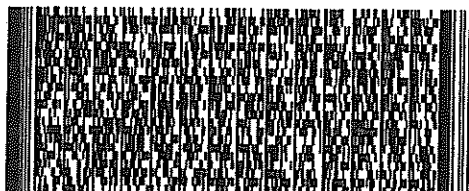


Ref # RCRA GW sampling-10181.23
Invoice #
PO #
Dept #

SHIP TO: (626) 386-1100 BILL THIRD PARTY

Sample Receiving
MWH Labs
750 ROYAL OAKS DR STE 100

MONROVIA, CA 91016

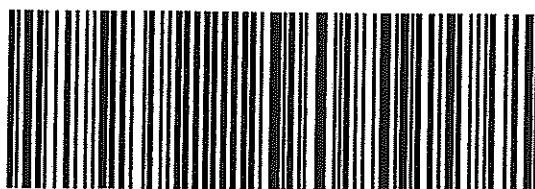


TRK# 7976 6209 8554
0201

TUE - 09JUN A2
PRIORITY OVERNIGHT

91016
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