



FIELD ACTIVITY REPORT

Report Number/Date:

5-15-09

Project Name: TIRONIOL GW Sampling

Project Number: 2009254421

Report By: Doug Davis

Personnel: D. Davis / D. Qualls

Location: Various wells

Equipment: Ground for

Client: TIRONIOL

Weather: Sunny

0530 AT 6th LOAD TRUCK

0630 AT MC 3

0705 collect sample at MC 3

0730 collect sample at MC 29

0816 collect sample at MC 51

0841 collect sample at MC 50

0901 collect sample at MC 45

0933 collect sample at MC 97

1006 collect sample at MC 93

Out of tubing, no morning delivery - will be here this afternoon. Take samples to monitor for shipment.

Printed Name/Signature:

Page 1 of



Groundwater Sampling Data Sheet

Well I.D. MC 93 Date: 5-15-09
 Sampler's Name: Davis/Qualls
 Purging Equipment: Grundfos
 Client: TICOMEX Project No.: 2009 2544V1

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 42.6 feet
 Depth to Water: - 31.4 feet
 Water Column Thickness: = 11.2 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 1.79 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 5.5 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
1	0955					26.7	7.31	Partly cloudy
2	1000	X	X	X		26.0	7.33	clear
3	1005	X	X	X		26.1	7.33	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 1006
 Purged Dry (Y/N): N

Comments: _____



Groundwater Sampling Data Sheet

Well I.D. MLC 97 Date: 5-15-09
 Sampler's Name: DAVIS / QJALLS
 Purging Equipment: Gen 1 fos
 Client: TRONOX Project No.: 2009 2544 V1

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 42.30 feet
 Depth to Water: - 34.45 feet
 Water Column Thickness: = 7.85 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 1.26 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.

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
1	0922					25.7	7.49	
2	0927	X	X	X		25.6	7.52	clear
3	0932	X	X	X		25.4	7.51	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3.5 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0933
 Purged Dry (Y/N): N

Comments: _____



Groundwater Sampling Data Sheet

Well I.D. MC45 Date: 5-15-09
 Sampler's Name: Davis / Quall
 Purging Equipment: 6mdfs
 Client: TRONOX Project No.: 20092574V1

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 32.5 feet
 Depth to Water: - 26.5 feet
 Water Column Thickness: = 6 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 0.96 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 3 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
0.5	0855					26.5	7.55 7.55	slightly cloudy
2	0858	X	X	X		26.0	7.56	clear
3	0900	X	X	X		25.9	7.55	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3.5 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0901
 Purged Dry (Y/N): N

Comments: _____



Groundwater Sampling Data Sheet

Well I.D. ML50 Date: 5-15-09
 Sampler's Name: DAVIS / Qualls
 Purging Equipment: GRWHDPOS
 Client: TRONOX Project No.: 20092544V1

Casing Type: PVC **UNIT CASING VOLUMES**
 Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
 Total Well Depth: 50.00 feet 4" = 0.67 gal/lin ft.
 Depth to Water: - 27.75 feet 6" = 1.47 gal/lin ft.
 Water Column Thickness: = 22.25 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 3.56 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 11 gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
1.5	0830					26.7	7.47	clear
3.5	0835	X	X	X		26.2	7.47	
5.5	0840	X	X	X		26.4	7.47	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 6 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0841
 Purged Dry (Y/N): N

Comments: _____



Groundwater Sampling Data Sheet

Well I.D. MC 51 Date: 5-15-09
 Sampler's Name: DAVIS / Qualls
 Purging Equipment: Gundis
 Client: TRONCO Project No.: 2009 2544 V1

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 45.6 feet
 Depth to Water: - 29.0 feet
 Water Column Thickness: = 16.6 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 2.7 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 8 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>1</u>	<u>0805</u>					<u>26.0</u>	<u>7.49</u>	<u>cloudy</u>
<u>2-5</u>	<u>0810</u>	X	X	X		<u>25.8</u>	<u>7.52</u>	<u>clear</u>
<u>4</u>	<u>0815</u>	X	X	X		<u>25.8</u>	<u>7.49</u>	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5.5 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0816
 Purged Dry (Y/N): N

Comments: _____



Groundwater Sampling Data Sheet

Well I.D. MC29 Date: 5-15-09
 Sampler's Name: DAVIS/Qualls
 Purging Equipment: GM Gas
 Client: TRONOX Project No.: 20092544V1

Casing Type: PVC **UNIT CASING VOLUMES**
 Casing Diameter: 2 inch 2" = 0.16 gal/lin ft.
 Total Well Depth: 49.5 feet 4" = 0.67 gal/lin ft.
 Depth to Water: - 34.4 feet 6" = 1.47 gal/lin ft.
 Water Column Thickness: = 15.1 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 2.41 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 7.23 gallons

Purged (gallons)	Time	DO	Redox	Fe	Conductance (u mhos / x1000)	Temperature (Celcius)	pH	Observations
<u>0.0</u>	<u>0727</u>					<u>26.6</u>	<u>7.53</u>	<u>clear.</u>
<u>2.0</u>	<u>0732</u>	X	X	X		<u>26.8</u>	<u>7.54</u>	
<u>3.0</u>	<u>0737</u>	X	X	X		<u>26.8</u>	<u>7.54</u>	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 3.5 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0730
 Purged Dry (Y/N): N

Comments: pumping at approx 1 liter/min. Appears to be the minimum rate to get flow with this equipment.



Groundwater Sampling Data Sheet

Well I.D. MC 3 Date: 5-15-09
 Sampler's Name: Davis / O'alls
 Purging Equipment: Grudfos
 Client: TRONOX Project No.: 2009 2544V1

Casing Type: PVC
 Casing Diameter: 2 inch
 Total Well Depth: 44.5 feet
 Depth to Water: 34.0 feet
 Water Column Thickness: = 10.5 feet
 Unit Casing Volume: x 0.16 gallon / foot
 Casing Water Volume: x 1.68 gallons
 Casing Volume: x 3 each
 Estimated Purge Volume: = 5.04 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
0.5	0653 0653					26.8	7.36	cloudy / silt.
2.5	0658	X	X	X		26.9	7.37	clear
4.5	0703	X	X	X		26.9	7.33	
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				
		X	X	X				

Total Water Volume Purged: 5 Gallons
 Depth to Water at Sample Collection: _____
 Sample Collection Time: 0705
 Purged Dry (Y/N): N

Comments: _____

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



Ship Date: 15MAY09
ActWgt: 50.0 LB
CAD: 7219287/INET9011
Account#: S *****

Delivery Address Bar Code



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Sample Receiving
MWH Labs
750 ROYAL OAKS DR STE 100

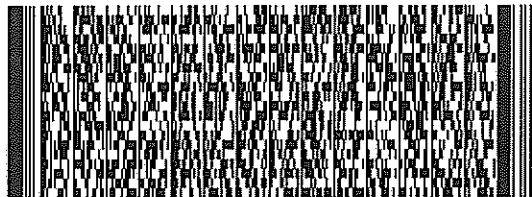
MONROVIA, CA 91016

Ref #
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PO #
Dept #

RELEASE#: 3785346

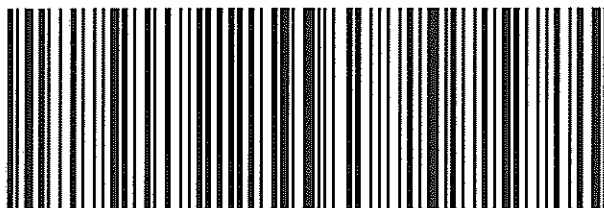
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