

Appendix C

Groundwater Sampling Field Data

Field Sheets
November to December 2006



Well ID: M2A

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-04-06 Time: Start 1055 am/pm
 Project No: 04020-023-401 Finish 1430 am/pm
 Site Location: Henderson, NV
 Weather Conds: Sunny, clear, cool Collector(s): I. Stone, E. Nelson, Z. Diermier

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 416.85' c. Length of Water Column 5.03' (a-b) Casing Diameter/Material 2" / PVC
 b. Water Table Depth 41.82' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1125								80	41.80	yellow / none
1129								110	41.81	"
1130								180	41.82	"
1133								210	41.82	"
1135								350	41.83	"
1137								350	41.83	"
1139	700	22.6	6.72	11.7	8.47	169	157.0	350	41.81	"

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Y or N/A - Explain below.

(continued on back)

e. Control box setting: _____

3. SAMPLE COLLECTION: Method: dump #4

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
M2A	40 ml glass VOA	3	HCL	VOC	1155
	40 ml glass VOA	3	HCL	TPH-GRO	—
	40 ml glass VOA	3	None	Fuel Alcohols	—
	1-L amber glass	2	None	TPH-DRO/ORO	—
	1-L amber glass	2	None	SVOCs	1156
	500-mL Poly	1	HNO ₃	Metals	1215
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	1219/1220
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	1223

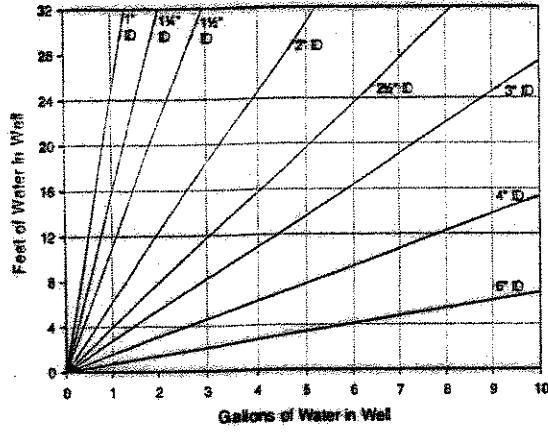
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Signature: [Signature]

Date: 12/4/06

Purge Volume Calculation

Well ID: M2A



ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

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Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1141	700	23.0	6.80	11.7	7.25	168	105.0	350	41.81	yellow / NONE
1143	700	23.0	6.85	11.7	7.51	168	66.8	350	41.82	"
1145	700	23.0	6.88	11.7	7.32	168	49.0	350	41.82	"

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
M2A	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	1229
	1-L Poly	1	None	Gen. Chem - Anions	1237
	1-L Poly	1	None	Gen. Chem - Surfactants	1247
	1-L amber glass	2	None	OCPs	1300
	1-L amber glass	2	None	PCBs	1315
	1-L amber glass	2	None	OCHs	—
	1-L amber glass	2	None	OPPp	1332
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	1352
	1-L Poly	2	HNO ₃	Rads U & Th	—
	250 mL Poly	1	None	Cr 6	1418



Well ID: M5A

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-7-06 Time: Start 0755 am/pm
 Project No: 04020-023-401 Finish 1015 am/pm
 Site Location: Henderson, NV
 Weather Conds: SUNNY ~40°F Collector(s): Eric Nelson, B. Ho

1. WATER LEVEL DATA: (measured from Top of Casing)
 a. Total Well Length 47.22' c. Length of Water Column 9.12' (a-b) Casing Diameter/Material 3"/PVC
 b. Water Table Depth 38.10' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA
 a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0843								320	38.15	CLEAR/NONE
0845	320							200	38.18	"
0851	200	16.7	6.90	14.4	6.47	-82	24.9	200	38.17	"
0853	400	18.1	6.74	15.1	5.25	-95	18.8	200	38.17	"
0855	400	19.2	6.70	15.3	4.63	-104	16.3	200	38.17	"
0857	400	20.1	6.69	15.3	4.26	-111	10.5	200	38.16	"
0859	400	20.6	6.68	15.5	4.02	-114	9.1	200	38.16	"

d. Acceptance criteria pass/fail
 Has required volume been removed Yes No N/A
 Has required turbidity been reached Yes No N/A
 Have parameters stabilized Yes No N/A
 (continued on back)

e. Control box setting: 35 psi

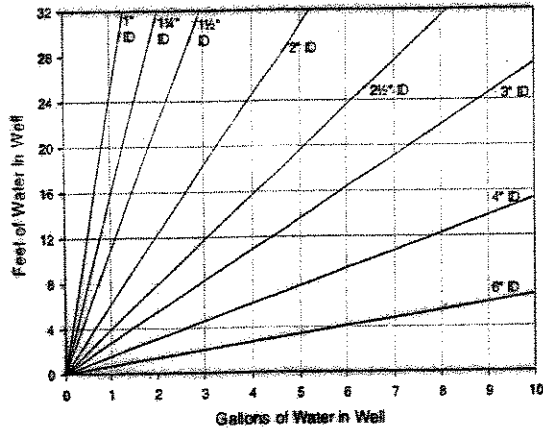
3. SAMPLE COLLECTION: Method: DUMP #1

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
M5A	40 ml glass VOA	3	HCL	VOC	0907
	40 ml glass VOA	3	HCL	TPH-GRO	---
	40 ml glass VOA	3	None	Fuel Alcohols	---
	1-L amber glass	2	None	TPH-DRO/ORO	---
	1-L amber glass	2	None	SVOCs	0909
	500-mL Poly	1	HNO ₃	Metals	0918
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	0920/0921
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	0923

Signature: [Signature] Date: 12/7/06

Purge Volume Calculation

Well ID: **M5A**



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0901	400	21.0	6.68	15.6	3.78	-17	70	200	38.17	CLEAR/NONE

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
M5A	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	0424
	1-L Poly	1	None	Gen. Chem - Anions	0429
	1-L Poly	1	None	Gen. Chem - Surfactants	0431
	1-L amber glass	2	None	OCPs	0436
	1-L amber glass	2	None	PCBs	0444
	1-L amber glass	2	None	OCHs	
	1-L amber glass	2	None	OPPs	0453
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	1002
	1-L Poly	2	HNO ₃	Rads U & Th	
	250 mL Poly	1	None	Cr 6	1525



Well ID: M76

Low Flow Ground Water Sample Collection Record

Client: Tronex Date: 11-30-06 Time: Start 0830 am/pm
 Project No: 04020-023-401 Finish 1030 am/pm
 Site Location: Henderson, NV
 Weather Conds: Sunny, cold Collector(s): E. Nelson, I. Stone, B. Ho, Z. Diermier

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 54.75' c. Length of Water Column 19.60' (a-b) Casing Diameter/Material 2" / PVC
 b. Water Table Depth 35.15' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0856								380	35.27	Slightly cloudy
0858								420	35.36	"
0900								380	35.45	"
0904								290	35.47	"
0905								290	35.44	"
0906								290	35.45	"
0907	290	18.1	5.12	9.55	4.79	208	165	290	35.48	"

d. Acceptance criteria pass/fail. Yes No N/A
 Has required volume been removed
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

(continued on back)

e. Control box setting: _____

3. SAMPLE COLLECTION: Method: Dump #3

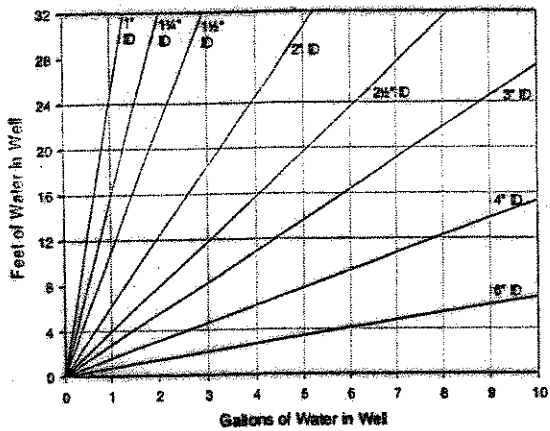
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
M76	40 ml glass VOA	3	HCL	VOC	0930
	40 ml glass VOA	3	HCL	TPH-GRO	—
	40 ml glass VOA	3	None	Fuel Alcohols	—
	1-L amber glass	2	None	TPH-DRO/ORO	—
	1-L amber glass	2	None	SVOCs	0932
	500-mL Poly	1	HNO ₃	Metals	0940
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	0942/094
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	0944

(continued on back)

Signature: [Signature] Date: 11/30/06

Purge Volume Calculation

Well ID: M7B



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

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Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0909	580	18.2	6.89	10.1	4.37	181	122.0	290	35.47	CLEAR/ODORLESS
0911	580	19.2	6.98	10.2	4.00	169	107.0	290	35.48	"
0913	580	20.6	6.30	10.4	3.52	157	79.5	290	35.49	"
0915	580	21.0	6.47	10.5	3.37	143	62.0	290	35.50	"
0917	580	21.4	6.58	10.6	3.31	129	42.8	290	35.49	"
0919	580	21.5	6.68	10.6	3.25	112	35.8	290	35.48	"
0921	580	21.8	6.73	10.7	3.19	98	23.8	290	35.49	"
0923	580	22.1	6.76	10.7	3.12	86	11.5	290	35.49	"
0925	580	22.1	6.79	10.7	3.80	76	17.7	290	35.49	"
0927	580	22.1	6.81	10.7	3.21	66	16.1	290	35.50	"

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
M7B	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	0946
	1-L Poly	1	None	Gen. Chem - Anions	0955
	1-L Poly	1	None	Gen. Chem - Surfactants	0951
	1-L amber glass	2	None	OCPs	1000
	1-L amber glass	2	None	PCBs	1013
	1-L amber glass	2	None	OCHs	1009
	1-L amber glass	2	None	OPPp	1031
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	1040
	1-L Poly	2	HNO ₃	Rads U & Th	—
	250 mL Poly	1	None	Cr 6	1315



Well ID: m11

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-6-06 Time: Start 1130 am/pm
 Project No: 04020-023-401 Finish _____ am/pm
 Site Location: Henderson, NV
 Weather Conds: sunny warm Collector(s): ERIC NELSON

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 53.85' c. Length of Water Column 10.72' (a-b) Casing Diameter/Material 6"/steel
 b. Water Table Depth 43.13' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/OED controller (MP-10) and QED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
Horiba U-22 w/flow thru-cell	U-22TG-2	9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
<u>1202</u>								<u>150</u>	<u>43.17</u>	
<u>1207</u>	<u>.750</u>	<u>25.1</u>	<u>7.53</u>	<u>4.64</u>	<u>8.54</u>	<u>164</u>	<u>160.0</u>	<u>150</u>	<u>43.17</u>	<u>cloudy/yellow</u>
<u>1209</u>	<u>.300</u>	<u>25.2</u>	<u>7.53</u>	<u>4.65</u>	<u>7.93</u>	<u>166</u>	<u>131.0</u>	<u>150</u>	<u>43.18</u>	<u>"</u>
<u>1211</u>	<u>.300</u>	<u>25.3</u>	<u>7.53</u>	<u>4.63</u>	<u>7.75</u>	<u>163</u>	<u>98.8</u>	<u>150</u>	<u>43.17</u>	<u>"</u>
<u>1213</u>	<u>.300</u>	<u>25.1</u>	<u>7.54</u>	<u>4.62</u>	<u>7.38</u>	<u>161</u>	<u>89.5</u>	<u>150</u>	<u>43.18</u>	<u>"</u>

d. Acceptance criteria pass/fail.

	Yes	No	N/A
Has required volume been removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: _____

3. SAMPLE COLLECTION: Method: DUMO #4

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>m11</u>	<u>40 ml glass VOA</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u>1257</u>
	<u>40 ml glass VOA</u>	<u>3</u>	<u>HCL</u>	<u>TPH-GRO</u>	<u>---</u>
	<u>40 ml glass VOA</u>	<u>3</u>	<u>None</u>	<u>Fuel Alcohols</u>	<u>---</u>
	<u>1-L amber glass</u>	<u>2</u>	<u>None</u>	<u>TPH-DRO/ORO</u>	<u>---</u>
	<u>1-L amber glass</u>	<u>2</u>	<u>None</u>	<u>SVOCs</u>	<u>1258</u>
	<u>500-mL Poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1254</u>
	<u>125 mL poly/250 mL amber</u>	<u>1/1</u>	<u>None / H₂SO₄</u>	<u>Perchlorate / TOC</u>	<u>1258</u>
<u>✓</u>	<u>500-mL Poly</u>	<u>1</u>	<u>NaOH</u>	<u>Gen. Chem - Cyanide</u>	<u>1303</u>

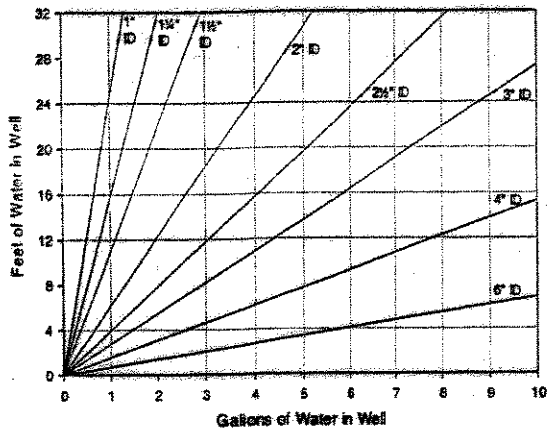
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Signature: [Signature]

Date: 12/6/06

Purge Volume Calculation

Well ID: *M11*



ID (in)	Volume / Linear Ft. of Pipe Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

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Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
<i>M11</i>	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	<i>1310</i>
	1-L Poly	1	None	Gen. Chem - Anions	<i>1316</i>
	1-L Poly	1	None	Gen. Chem - Surfactants	<i>1321</i>
	1-L amber glass	2	None	OCPs	<i>1332</i>
	1-L amber glass	2	None	PCBs	<i>1345</i>
	1-L amber glass	2	None	OCHs	
	1-L amber glass	2	None	OPP	<i>1404</i>
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	<i>1425</i>
	1-L Poly	2	HNO ₃	Rads U & Th	
	250 mL Poly	1	None	Cr 6	<i>1440</i>



Well ID: M12A

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-5-06 Time: Start 0645 am/pm
 Project No: 04020-023-401 Finish 0930 am/pm
 Site Location: Henderson, NV
 Weather Conds: cold, clear Collector(s): Z. Diermier, B. Ho, E. Nelson, J. Stone

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 51.40' c. Length of Water Column 10.20' (a-b) Casing Diameter/Material 2" / PVC
 b. Water Table Depth 41.20' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
Horiba U-22 w/flow thru-cell	U-22TG-2	9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (uS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0747								300	41.25	yellow/NONE
0749								150	41.25	"
0753								200	41.25	"
0759								250	41.29	"
0801								210	41.27	"
0804	630	12.5	7.49	7.23	7.70	188	33.8	210	41.27	"
0806	420	13.9	7.53	7.94	6.62	184	25.1	210	41.28	"

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(continued on back)

If no or N/A - Explain below.

e. Control box setting: 36 psi

3. SAMPLE COLLECTION:

Method: DUMP #2

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M12A</u>	40 ml glass VOA	3	HCL	VOC	<u>0818</u>
	40 ml glass VOA	3	HCL	TPH-GRO	—
	40 ml glass VOA	3	None	Fuel Alcohols	—
	1-L amber glass	2	None	TPH-DRO/ORO	—
	1-L amber glass	2	None	SVOCs	<u>0820</u>
	500-mL Poly	1	HNO ₃	Metals	<u>0827</u>
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	<u>0829</u>
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	<u>0831</u>

(continued on back)

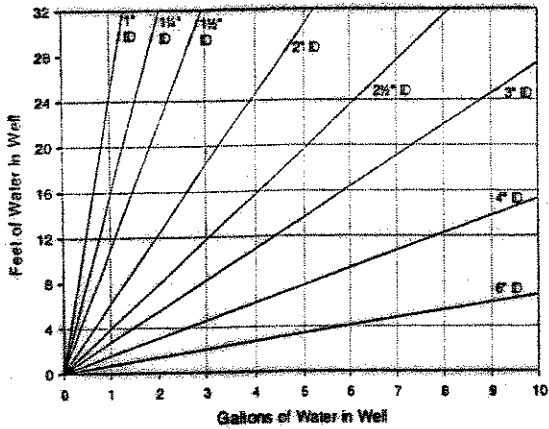
Signature

Date

12/5/06

Purge Volume Calculation

Well ID: *M2A*



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0808	.420	15.6	7.54	8.23	6.14	180	25.1	210	41.27	NP/lowish/NONE
0810	.420	17.3	7.53	8.49	5.94	176	22.4	210	41.27	"
0812	.420	18.6	7.52	8.63	5.46	173	18.6	210	41.28	"
0814	.420	19.3	7.51	8.77	5.25	171	21.0	210	41.28	"
0816	.420	19.9	7.50	8.82	5.18	169	19.7	210	41.27	"

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
<i>M2A</i>	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	0822
	1-L Poly	1	None	Gen. Chem - Anions	0830
	1-L Poly	1	None	Gen. Chem - Surfactants	0839
	1-L amber glass	2	None	OCPs	0843
	1-L amber glass	2	None	PCBs	0850
	1-L amber glass	2	None	OCHs	
	1-L amber glass	2	None	OPPs	0858
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	0905
	1-L Poly	2	HNO ₃	Rads U & Th	
	250 mL Poly	1	None	Cr 6	



Well ID: M13

Low Flow Ground Water Sample Collection Record

Client: Trinox Date: 12-1-06 Time: Start 1000 am/pm
 Project No: 04020-023-401 Finish 1200 am/pm
 Site Location: Henderson, NV
 Weather Conds: SUNNY Collector(s): I. Stone, E. Nelson, Z. Diermier

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 51.98' c. Length of Water Column 6.11' (a-b) Casing Diameter/Material 2" / PVC
 b. Water Table Depth 45.87' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1028								300	45.90	Cloudy/NONE
1029								300	45.90	"
1030								350	45.95	"
1031								350	45.98	"
1034								300	46.00	"
1035								300	46.00	"
1036								300	46.01	"

d. Acceptance criteria pass/fail. Yes No N/A
 Has required volume been removed
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

(continued on back)

e. Control box setting: _____

3. SAMPLE COLLECTION: Method: Dump #3

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M13</u>	40 ml glass VOA	3	HCL	VOC	<u>1052</u>
	40 ml glass VOA	3	HCL	TPH-GRO	—
	40 ml glass VOA	3	None	Fuel Alcohols	—
	1-L amber glass	2	None	TPH-DRO/ORO	—
	1-L amber glass	2	None	SVOCs	<u>1055</u>
	500-mL Poly	1	HNO ₃	Metals	<u>1058</u>
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	<u>1102</u>
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	<u>1105</u>

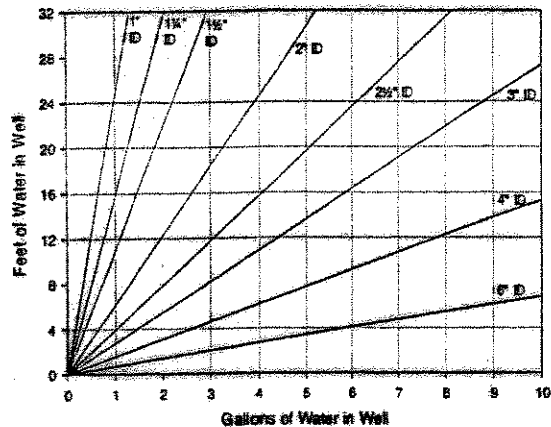
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Signature: [Handwritten Signature]

Date: 12/1/06

Purge Volume Calculation

Well ID: M13



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6526	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1038	.600	22.8	7.47	4.19	6.27	-43	44.4	300	46.01	CLEAR/NONE
1040	.600	23.1	7.31	4.33	4.95	-51	35.0	300	46.04	"
1042	.600	23.4	7.25	4.35	4.48	-53	35.2	300	46.04	"
1044	.600	23.5	7.23	4.36	4.28	-51	35.4	300	46.05	"

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Rec.	Time
<u>M13</u>	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	1107
	1-L Poly	1	None	Gen. Chem - Anions	1109
	1-L Poly	1	None	Gen. Chem - Surfactants	1111
	1-L amber glass	2	None	OCPs	1113
	1-L amber glass	2	None	PCBs	1124
	1-L amber glass	2	None	OCHs	—
	1-L amber glass	2	None	OPPp	1130
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	1136
	1-L Poly	2	HNO ₃	Rads U & Th	—
	250 mL Poly	1	None	Cr 6	1145



Well ID: M31A

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-6-06 Time: Start 0930 am/pm
 Project No: 04020-023-401 Finish 1305 am/pm
 Site Location: Henderson, NV
 Weather Conds: Sunny warm Collector(s): I. Stone, E. Diermer

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 54.86' c. Length of Water Column 8.55' (a-b) Casing Diameter/Material 2"/PVC
 b. Water Table Depth 46.31' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/OED controller (MP-10) and OED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (uS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1040								145	46.40	cloudy brown/NONE
1041								145	46.40	yellow/NONE
1044		21.6	7.09	9.8	7.22	204	400.0	145	46.40	"
1046	290	21.9	7.00	9.7	6.10	203	318.0	145	46.40	"
1048	290	22.0	6.98	9.6	5.60	238	200.0	145	46.40	"
1050	290	22.0	6.98	9.6	5.40	201	203.0	145	46.40	"
1052	290	22.2	6.98	9.5	5.22	196	155.0	145	46.40	"

(continued on back)

d. Acceptance criteria pass/fail.

Has required volume been removed Yes No N/A
 Has required turbidity been reached Yes No N/A
 Have parameters stabilized Yes No N/A
 If no or N/A - Explain below:

e. Control box setting: 50 psi

3. SAMPLE COLLECTION: Method: DUMP #2

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M31A</u>	40 ml glass VOA	3	HCL	VOC	1055
	40 ml glass VOA	3	HCL	TPH-GRO	
	40 ml glass VOA	3	None	Fuel Alcohols	
	1-L amber glass	2	None	TPH-DRO/ORO	
	1-L amber glass	2	None	SVOCs	1057
	500-mL Poly	1	HNO ₃	Metals	1107
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	1110
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	1111

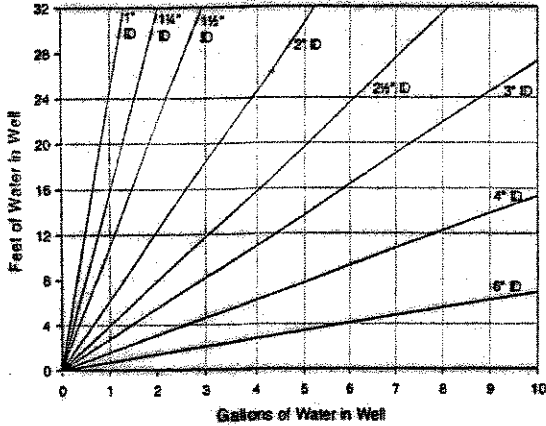
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h.n.

Date 12/16/06

Purge Volume Calculation

Well ID: M31A



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Rec.	Time
M31A	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	1117
	1-L Poly	1	None	Gen. Chem - Anions	1120
	1-L Poly	1	None	Gen. Chem - Surfactants	1126
	1-L amber glass	2	None	OCPs	1132
	1-L amber glass	2	None	PCBs	1143
	1-L amber glass	2	None	OCHs	—
	1-L amber glass	2	None	OPPp	1156
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	1210
	1-L Poly	2	HNO ₃	Rads U & Th	1233
	250 mL Poly	1	None	Cr 6	1248



Well ID: M39

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-5-06 Time: Start 0945 am/pm
 Project No: 04020-023-401 Finish 1115 am/pm
 Site Location: Henderson, NV
 Weather Conds: clear warm Collector(s): Z. Diermier, I. Stone

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 42.40' c. Length of Water Column 10.74' (a-b)
 b. Water Table Depth 31.66' d. Calculated System Volume (see back) _____

Casing Diameter/Material
2" / PVC

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1003								320	31.70	yellowish/wh
1004								320	31.70	"
1006	.640	20.9	7.50	6.98	6.97	218	116.0	320	31.71	"
1008	.640	21.4	7.27	7.36	6.00	216	107.0	320	31.70	"
1010	.640	22.9	7.06	7.82	4.48	211	74.6	320	31.70	"
1012	.640	23.7	6.98	7.99	4.12	207	63.0	320	31.70	"
1014	.640	23.9	6.95	8.01	3.97	203	62.9	320	31.70	"

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 36 psi

3. SAMPLE COLLECTION:

Method: DUMP #4

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M39</u>	40 ml glass VOA	3	HCL	VOC	<u>1015</u>
	40 ml glass VOA	3	HCL	TPH-GRO	---
	40 ml glass VOA	3	None	Fuel Alcohols	---
	1-L amber glass	2	None	TPH-DRO/ORO	---
	1-L amber glass	2	None	SVOCs	<u>1019</u>
	500-mL Poly	1	HNO ₃	Metals	<u>1023</u>
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	<u>1025</u>
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	<u>1027</u>

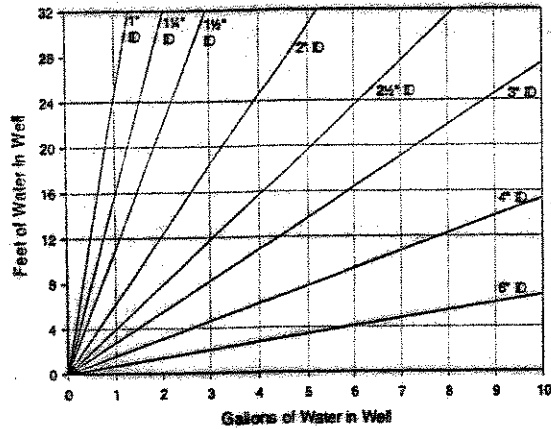
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Signature: [Handwritten Signature]

Date: 12/5/06

Purge Volume Calculation

Well ID: M39



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
<u>M39</u>	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	<u>1028</u>
	1-L Poly	1	None	Gen. Chem - Anions	<u>1030</u>
	1-L Poly	1	None	Gen. Chem - Surfactants	<u>1033</u>
	1-L amber glass	2	None	OCPs	<u>1036</u>
	1-L amber glass	2	None	PCBs	<u>1042</u>
	1-L amber glass	2	None	OCHs	<u> </u>
	1-L amber glass	2	None	OPPs	<u>1048</u>
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	<u>1054</u>
	1-L Poly	2	HNO ₃	Rads U & Th	<u> </u>
	250 mL Poly	1	None	Cr 6	<u> </u>



Well ID: m48

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-6-06 Time: Start 0630 am/pm
 Project No: 04020-023-401 Finish 0750 am/pm
 Site Location: Henderson, NV
 Weather Conds: cool, clear Collector(s): I Stone, Z. Diermier

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 36.30' c. Length of Water Column 12.42' (a-b) Casing Diameter/Material 2" / PVC
 b. Water Table Depth 23.88' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/OED controller (MP-10) and OED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (uS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0646								350	23.89	light yellow / NONE
0647								350	23.89	"
0652		14.8	6.24	2.85	7.01	215	—	350	23.88	"
0654	.700	18.8	6.63	3.19	4.40	206	—	350	23.88	"
0656	.700	20.9	6.83	3.37	4.00	201	—	350	23.88	"
0658	.700	21.8	6.97	3.40	3.85	197	—	350	23.88	"
0700	.700	22.0	7.02	3.41	3.81	194	—	350	23.88	"

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 36.0SL

3. SAMPLE COLLECTION: Method: Dump #2

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>m48</u>	40 ml glass VOA	3	HCL	VOC	0704
	40 ml glass VOA	3	HCL	TPH-GRO	—
	40 ml glass VOA	3	None	Fuel Alcohols	—
	1-L amber glass	2	None	TPH-DRO/ORO	—
	1-L amber glass	2	None	SVOCs	0706
	500-mL Poly	1	HNO ₃	Metals	0711
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	0713
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	0714

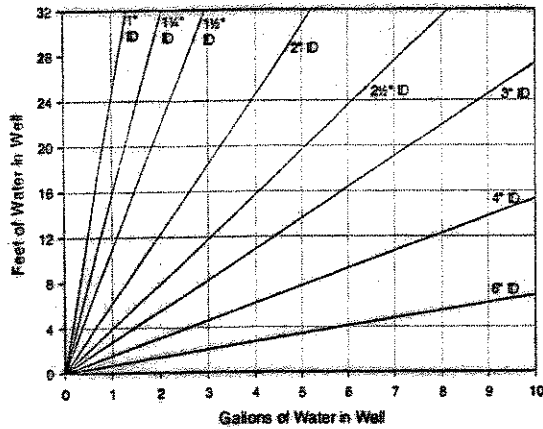
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Date 12/6/06

Purge Volume Calculation

Well ID: *m48*



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
<i>m48</i>	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₄	0716
	1-L Poly	1	None	Gen. Chem - Anions	0718
	1-L Poly	1	None	Gen. Chem - Surfactants	0720
	1-L amber glass	2	None	OCPs	0723
	1-L amber glass	2	None	PCBs	0728
	1-L amber glass	2	None	OCHs	—
	1-L amber glass	2	None	OPPp	0731
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	0736
	1-L Poly	2	HNO ₃	Rads U & Th	—
	250 mL Poly	1	None	Cr 6	1538



Well ID: M55

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-7-06 Time: Start 0615 am/pm
 Project No: 04020-025-401 Finish 0800 am/pm
 Site Location: Henderson, NV
 Weather Conds: clear, clear Collector(s): I. Stone, Z. Diermier, E. Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 46.26' c. Length of Water Column 19.71' (a-b) Casing Diameter/Material 2" / PVC
 b. Water Table Depth 26.55' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used: Make Model Serial Number
Horiba U-22 w/flow thru-cell U-22TG-2 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0633								280	26.56	
0635	.560							360	26.56	
0639	1.440	16.8	6.93	10.4	7.01	166	1.5	360	26.56	CLEAR green / NONE
0641	.720	19.7	6.76	10.8	5.29	165	—	360	26.55	"
0643	.720	20.8	6.72	11.1	4.63	165	—	360	26.56	"
0645	.720	21.8	6.68	11.1	4.28	166	—	360	26.55	"
0647	.720	22.5	6.67	11.2	4.07	168	—	360	26.56	"

d. Acceptance criteria pass/fail Yes No N/A (continued on back)
 Has required volume been removed
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

e. Control box setting: 39 psi

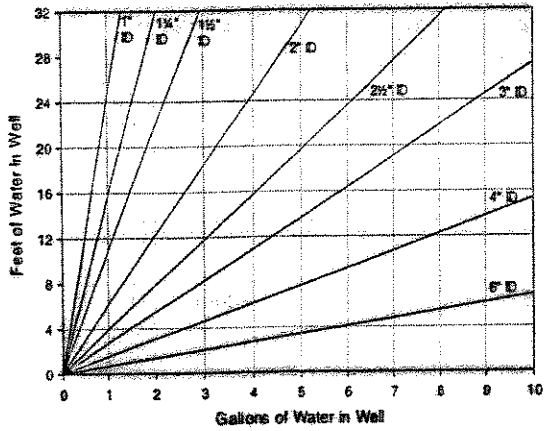
3. SAMPLE COLLECTION: Method: pump #2

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M55</u>	40 ml glass VOA	3	HCL	VOC	0700
	40 ml glass VOA	3	HCL	TPH-GRO	—
	40 ml glass VOA	3	None	Fuel Alcohols	—
	1-L amber glass	2	None	TPH-DRO/ORO	—
	1-L amber glass	2	None	SVOCs	0705
	500-mL Poly	1	HNO ₃	Metals	0716
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	0711/0716
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	0717

Signature: [Signature] Date: 12/7/06

Purge Volume Calculation

Well ID: *M55*



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
<i>M55</i>	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	<i>0719</i>
	1-L Poly	1	None	Gen. Chem - Anions	<i>0722</i>
	1-L Poly	1	None	Gen. Chem - Surfactants	<i>0725</i>
	1-L amber glass	2	None	OCPs	<i>0736</i>
	1-L amber glass	2	None	PCBs	<i>0732</i>
	1-L amber glass	2	None	OCHs	—
	1-L amber glass	2	None	OPPs	<i>0737</i>
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	<i>0742</i>
	1-L Poly	2	HNO ₃	Rads U & Th	—
	250 mL Poly	1	None	Cr 6	<i>1515</i>



Well ID: M76

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-4-06 Time: Start 0620 am/pm
 Project No: 04020-023-401 Finish 1015 am/pm
 Site Location: Henderson, NV
 Weather Conds: cold, clear Collector(s): E. Nelson, Z. Diemier, I. Stone

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 54.69' c. Length of Water Column 15.58' (a-b) Casing Diameter/Material 2"/PVC
 b. Water Table Depth 39.11' d. Calculated System Volume (see back)

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
Horiba U-22 w/flow thru-cell	U-22TG-2	9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0657								175	39.55	yellow/None
0658								150	39.61	"
0701								100	39.55	"
0703								140	39.58	"
0704								120	39.60	"
0705								90	39.58	"
0706								100	39.56	"

- d. Acceptance criteria pass/fail.
- | | | | |
|-------------------------------------|---|-----------------------------|------------------------------|
| Has required volume been removed | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| Has required turbidity been reached | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Have parameters stabilized | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
- If no or N/A - Explain below.

(continued on back)

e. Control box setting: 20 DSL

3. SAMPLE COLLECTION: Method: Pump #1

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M76</u>	40 ml glass VOA	3	HCL	VOC	0720
	40 ml glass VOA	3	HCL	TPH-GRO	—
	40 ml glass VOA	3	None	Fuel Alcohols	—
	1-L amber glass	2	None	TPH-DRO/ORO	—
	1-L amber glass	2	None	SVOCs	0723
	500-mL Poly	1	HNO ₃	Metals	0748
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	0754
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	0759

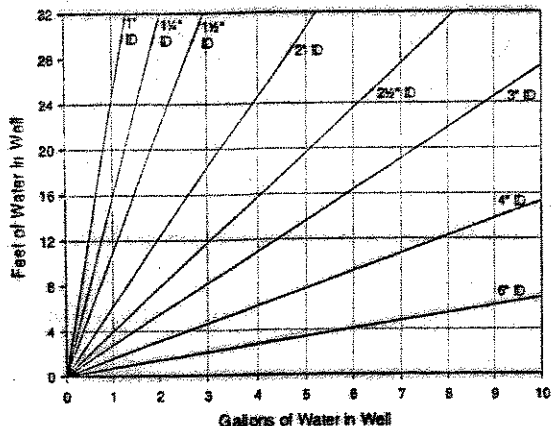
(continued on back)

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Date 12/4/06

Purge Volume Calculation

Well ID: M76



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0712		10.9	5.77	4.19	7.80	273	1.3	100	39.56	yellow / NONE
0714	200	11.5	6.15	4.20	7.30	268	0.5	100	39.50	"
0716	200	11.6	6.33	4.13	7.25	263	0.2	100	39.50	"
0718	200	11.8	6.41	4.20	7.29	260	0.1	100	39.49	"

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
M76	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	0805
	1-L Poly	1	None	Gen. Chem - Anions	0817
	1-L Poly	1	None	Gen. Chem - Surfactants	0825
	1-L amber glass	2	None	OCPs	0840
	1-L amber glass	2	None	PCBs	0910
	1-L amber glass	2	None	OCHs	
	1-L amber glass	2	None	OPPs	0934
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	0958
	1-L Poly	2	HNO ₃	Rads U & Th	
	250 mL Poly	1	None	Cr 6	1240



Well ID: M89

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12/5/06 Time: Start 1135 am/pm
 Project No: 04020-023-401 Finish _____ am/pm
 Site Location: Henderson, NV
 Weather Conds: Sunny Warm Collector(s): I. Stone, E. Nelson, Z. Diemier

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 40.14' c. Length of Water Column 6.73' (a-b) Casing Diameter/Material 2"/PVC
 b. Water Table Depth 33.41' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (uS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1201								250		yellowish / NONE
1203								200		"
1205								235		"
1206								235		"
1209		23.4	6.85	13.7	7.21	159	28.2	235	33.47	"
1211	470	23.9	6.69	13.3	5.25	157	0.7	235	33.46	"
1213	470	24.1	6.65	12.1	4.62	155	0.3	235	33.46	"

d. Acceptance criteria pass/fail: (continued on back)

Has required volume been removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

e. Control box setting: _____

3. SAMPLE COLLECTION:

Method: Pump #4

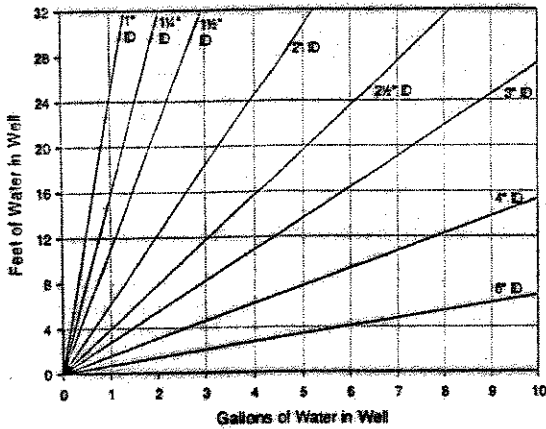
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M89</u>	40 ml glass VOA	3	HCL	VOC	<u>1220</u>
	40 ml glass VOA	3	HCL	TPH-GRO	
	40 ml glass VOA	3	None	Fuel Alcohols	
	1-L amber glass	2	None	TPH-DRO/ORO	
	1-L amber glass	2	None	SVOCs	<u>1221</u>
	500-mL Poly	1	HNO ₃	Metals	<u>1229</u>
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	<u>1230</u>
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	<u>1232</u>

Signature: [Handwritten Signatures]

Date: 12/5/06

Purge Volume Calculation

Well ID: m89



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1215	1,470	24.1	6.65	13.0	4.32	154	—	235	33.47	Greenish / NONE
1217	1,470	24.0	6.66	13.8	3.97	152	—	235	33.46	"

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
<u>m89</u>	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	1234
	1-L Poly	1	None	Gen. Chem - Anions	1236
	1-L Poly	1	None	Gen. Chem - Surfactants	1231
	1-L amber glass	2	None	OCPs	1243
	1-L amber glass	2	None	PCBs	1249
	1-L amber glass	2	None	OCHs	—
	1-L amber glass	2	None	OPPs	1255
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	1301
	1-L Poly	2	HNO ₃	Rads U & Th	—
	250 mL Poly	1	None	Cr 6	1320



Well ID: M92

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 11-29-06 Time: Start 0915 am/pm
 Project No: 04020-023-401 Finish 1123 am/pm
 Site Location: Henderson, NV
 Weather Conds: 36°F wind gusts 20mph cold Collector(s): Eric Nelson Ian Stone

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 48.02' c. Length of Water Column 10.89' (a-b) Casing Diameter/Material 2" / PVC
 b. Water Table Depth 37.13' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
Horiba U-22 w/flow thru-cell	U-22TG-2	9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (uS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1001	840	19.2	7.55	2.16	7.15	142	112.0	280	37.23	colorless
1004	840	19.6	7.54	2.20	7.25	141	103.0	280	37.22	slightly cloudy
1005	280	19.9	7.54	2.22	7.31	140	83.4	280	37.22	"
1007	560	20.0	7.55	2.23	7.37	138	76.0	280	37.25	"

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: _____

3. SAMPLE COLLECTION: Method: DUMA #1

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
M92	40 ml glass VOA	3	HCL	VOC	10:13
	40 ml glass VOA	3	HCL	TPH-GRO	—
	40 ml glass VOA	3	None	Fuel Alcohols	10:14
	1-L amber glass	2	None	TPH-DRO/ORO	—
	1-L amber glass	2	None	SVOCs	10:19
	500-mL Poly	1	HNO ₃	Metals	10:16
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	10:26
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	10:28

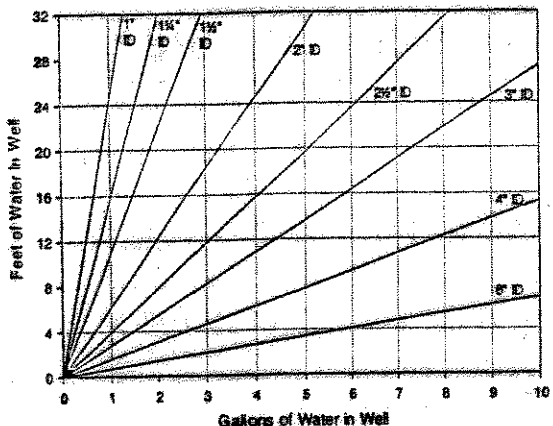
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Signature: [Handwritten Signature]

Date: 11/29/06

Purge Volume Calculation

Well ID: M92



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time	Volume Removed	Temp	pH	Spec. Cond.	DO	ORP	Turbidity	Flow Rate	Drawdown	Color/Odor
(24 hr)	(Liters)	(°C)		(µS/cm)	(mg/L)	(mV)	(NTU)	(ml/min)	(ft)	

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
M92	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	1029
	1-L Poly	1	None	Gen. Chem - Anions	1035
	1-L Poly	1	None	Gen. Chem - Surfactants	1055
	1-L amber glass	2	None	OCPs	1043
	1-L amber glass	2	None	PCBs	1100
	1-L amber glass	2	None	OCHs	—
	1-L amber glass	2	None	OPPs	1050
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	1110
	1-L Poly	2	HNO ₃	Rads U & Th	—
	250 mL Poly	1	None	Cr 6	1121



Well ID: M95

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-4-06 Time: Start 1345 am/pm
 Project No: 04020-023-401 Finish 1525 am/pm
 Site Location: Henderson, NV
 Weather Conds: Sunny, Warm Collector(s): ERIC Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)
 a. Total Well Length 20.95' c. Length of Water Column 10.98' (a-b) Casing Diameter/Material 2" / PVC
 b. Water Table Depth 9.97' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA
 a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (uS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1410								480	9.97	CLEAR/NONE
1414	1920	24.5	7.04	9.09	7.09	168	174.0	480	9.97	"
1415	480	24.9	7.09	9.29	6.86	165	144.0	480	9.97	"
1416	480	25.3	7.12	9.34	5.91	161	113	480	9.97	"
1418	480	25.4	7.16	9.39	5.91	159	88.1	480	9.97	CLEAR/NONE
1419	480	25.5	7.17	9.40	5.93	155	68.8	480	9.97	"

- d. Acceptance criteria pass/fail
- | | | | |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| | Yes | No | N/A |
| Has required volume been removed | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has required turbidity been reached | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Have parameters stabilized | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
- If no or N/A - Explain below.

(continued on back)

e. Control box setting: _____

3. SAMPLE COLLECTION: Method: Pump #3

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M95</u>	40 ml glass VOA	3	HCL	VOC	<u>1425</u>
	40 ml glass VOA	3	HCL	TPH-GRO	
	40 ml glass VOA	3	None	Fuel Alcohols	<u>1425</u>
	1-L amber glass	2	None	TPH-DRO/ORO	
	1-L amber glass	2	None	SVOCs	<u>1427</u>
	500-mL Poly	1	HNO ₃	Metals	<u>1434</u>
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	<u>1436</u>
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	<u>1445</u>

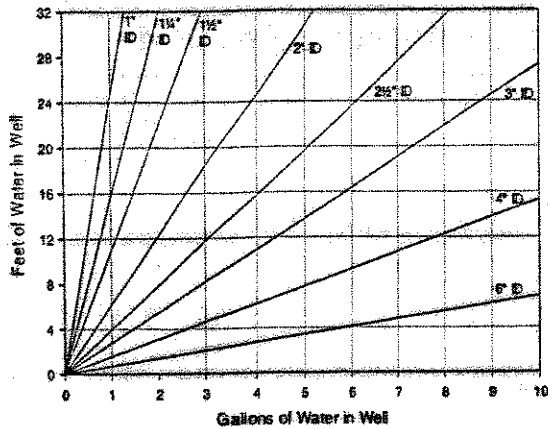
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Signature: [Signature]

Date: 4/28/06 EN

Purge Volume Calculation

Well ID: M95



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed		pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
	(Liters)	(°C)								

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
<u>M95</u>	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	1446
	1-L Poly	1	None	Gen. Chem - Anions	1443
	1-L Poly	1	None	Gen. Chem - Surfactants	1448
	1-L amber glass	2	None	OCPs	1450
	1-L amber glass	2	None	PCBs	1455
	1-L amber glass	2	None	OCHs	—
	1-L amber glass	2	None	OPPs	1502
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	1508
	1-L Poly	2	HNO ₃	Rads U & Th	—
	250 mL Poly	1	None	Cr 6	1510



Well ID: M97

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 11-29-06 Time: Start 1300 am/pm
 Project No: 04020-023-401 Finish 1445 am/pm
 Site Location: Henderson, NV
 Weather Conds: Sunny ~42°F 20-30 mph winds Collector(s): E. Nelson, I. Stone

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 47.60' c. Length of Water Column 7.15' (a-b) Casing Diameter/Material 2" / PVC
 b. Water Table Depth 40.45' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (uS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
<u>1327</u>								<u>240</u>	<u>40.25</u>	
<u>1330</u>								<u>380</u>	<u>40.35</u>	
<u>1332</u>	<u>760</u>	<u>22.0</u>	<u>7.34</u>	<u>4.72</u>	<u>6.60</u>	<u>98</u>	<u>43.6</u>	<u>380</u>	<u>40.45</u>	<u>colorless</u>
<u>1334</u>	<u>760</u>	<u>22.2</u>	<u>7.32</u>	<u>4.78</u>	<u>6.97</u>	<u>101</u>	<u>33.7</u>	<u>380</u>	<u>40.46</u>	<u>clear</u>
<u>1335</u>	<u>380</u>	<u>22.2</u>	<u>7.31</u>	<u>4.79</u>	<u>6.53</u>	<u>102</u>	<u>31.7</u>	<u>380</u>	<u>40.45</u>	<u>clear</u>

d. Acceptance criteria pass/fail
 Has required volume been removed Yes No N/A
 Has required turbidity been reached Yes No N/A
 Have parameters stabilized Yes No N/A
 If no or N/A - Explain below: _____

(continued on back)

e. Control box setting: _____

3. SAMPLE COLLECTION: Method: Dump #2

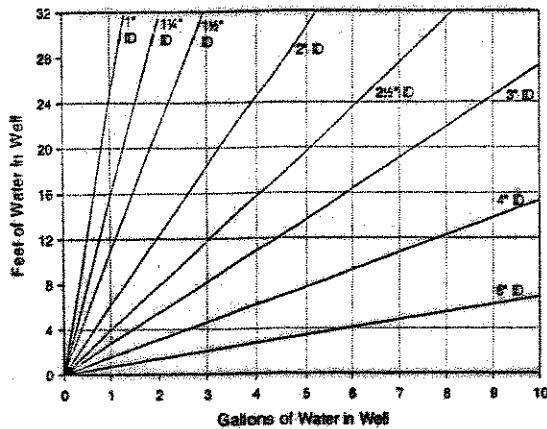
Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M97</u>	<u>40 ml glass VOA</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u>1337</u>
	<u>40 ml glass VOA</u>	<u>3</u>	<u>HCL</u>	<u>TPH-GRO</u>	
	<u>40 ml glass VOA</u>	<u>3</u>	<u>None</u>	<u>Fuel Alcohols</u>	
	<u>1-L amber glass</u>	<u>2</u>	<u>None</u>	<u>TPH-DRO/ORO</u>	
	<u>1-L amber glass</u>	<u>2</u>	<u>None</u>	<u>SVOCs</u>	<u>1338</u>
	<u>500-mL Poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1345</u>
	<u>125 mL poly/250 mL amber</u>	<u>1/1</u>	<u>None / H₂SO₄</u>	<u>Perchlorate / TOC</u>	<u>1346/134</u>
	<u>500-mL Poly</u>	<u>1</u>	<u>NaOH</u>	<u>Gen. Chem - Cyanide</u>	<u>1349</u>

(continued on back)

Signature: [Handwritten Signature]
 Date: 11/29/06

Purge Volume Calculation

Well ID: M97



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume									
	Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
<u>M97</u>	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	1351
	1-L Poly	1	None	Gen. Chem - Anions	1355
	1-L Poly	1	None	Gen. Chem - Surfactants	1408
	1-L amber glass	2	None	OCPs	1400
	1-L amber glass	2	None	PCBs	1404
	1-L amber glass	2	None	OCHs	—
	1-L amber glass	2	None	OPPs	1410
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	1417
	1-L Poly	2	HNO ₃	Rads U & Th	—
	250 mL Poly	1	None	Cr 6	1421



Well ID: M98

Low Flow Ground Water Sample Collection Record

Client: Tranox Date: 11-30-06 Time: Start 1109 am/pm
 Project No: 04020-023-401 Finish 1300 am/pm
 Site Location: Henderson, NV
 Weather Conds: clear sunny cool Collector(s): E. Nelson, Z. Diemier, J. Stone

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 33.33' c. Length of Water Column 3.58' (a-b) Casing Diameter/Material 2" / PVC
 b. Water Table Depth 29.75' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (uS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1129								300	29.75	clear / none
1131								300	29.81	"
1133								300	29.83	"
1136	400	22.4	7.08	5.51	7.50	84	—	300	29.84	"
1138	600	22.7	7.09	5.58	6.44	72	—	300	29.84	"
1140	600	22.9	7.10	5.63	6.11	65	—	300	29.84	"
1142	600	23.1	7.11	5.65	5.91	63	—	300	29.84	"

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: _____

3. SAMPLE COLLECTION: Method: DUMP #4

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M98</u>	40 ml glass VOA	3	HCL	VOC	1150
	40 ml glass VOA	3	HCL	TPH-GRO	—
	40 ml glass VOA	3	None	Fuel Alcohols	—
	1-L amber glass	2	None	TPH-DRO/ORO	—
	1-L amber glass	2	None	SVOCs	1155
	500-mL Poly	1	HNO ₃	Metals	1152
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	1157/1151
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	1150

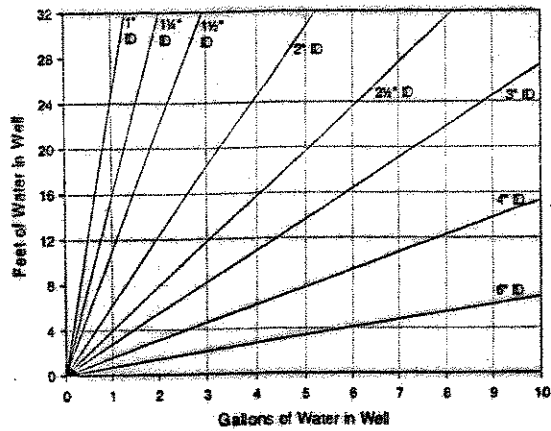
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Signature [Signatures]

Date 11/30/06

Purge Volume Calculation

Well ID: *m98*



Volume / Linear Ft. of Pipe		
ID (in)	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
<i>m98</i>	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₂	<i>1201</i>
	1-L Poly	1	None	Gen. Chem - Anions	<i>1206</i>
	1-L Poly	1	None	Gen. Chem - Surfactants	<i>1203</i>
	1-L amber glass	2	None	OCPs	<i>1210</i>
	1-L amber glass	2	None	PCBs	<i>1215</i>
	1-L amber glass	2	None	OCHs	<i>1218</i>
	1-L amber glass	2	None	OPP _s	<i>1225</i>
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	<i>1237</i>
	1-L Poly	2	HNO ₃	Rads U & Th	—
	250 mL Poly	1	None	Cr 6	<i>1245</i>



Well ID: M100

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-4-06 Time: Start 0845 am/pm
 Project No: 04020-023-401 Finish 1100 am/pm
 Site Location: Henderson, NV
 Weather Conds: cool, clear Collector(s): E. Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 32.98' c. Length of Water Column 6.93' (a-b) Casing Diameter/Material _____
 b. Water Table Depth 26.05' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (uS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0900								360		CLEAR/NONE
0901	360	20.9	6.79	2.06	4.06	225	1.0	360	26.17	"
0903	720	21.2	6.87	2.11	3.53	219	—	360	26.17	"
0904	360	21.4	6.95	2.12	3.45	216	—	360	26.18	"
0906	720	21.5	7.04	2.15	3.37	211	—	360	26.18	"

d. Acceptance criteria pass/fail. Yes No N/A
 Has required volume been removed
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

(continued on back)

e. Control box setting: _____

3. SAMPLE COLLECTION:

Method: Dump #3

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M100</u>	40 ml glass VOA	3	HCL	VOC	<u>0924</u>
	40 ml glass VOA	3	HCL	TPH-GRO	—
	40 ml glass VOA	3	None	Fuel Alcohols	—
	1-L amber glass	2	None	TPH-DRO/ORO	—
	1-L amber glass	2	None	SVOCs	<u>0925</u>
	500-mL Poly	1	HNO ₃	Metals	<u>0936</u>
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	<u>0939</u>
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	<u>0942</u>

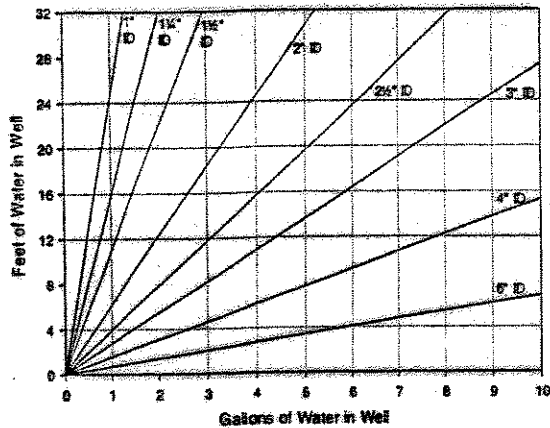
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Date 12/25/06 EW

Purge Volume Calculation

Well ID: *M100*



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

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Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
<i>M100</i>	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	<i>0946</i>
	1-L Poly	1	None	Gen. Chem - Anions	<i>0951</i>
	1-L Poly	1	None	Gen. Chem - Surfactants	<i>0956</i>
	1-L amber glass	2	None	OCPs	<i>1012</i>
	1-L amber glass	2	None	PCBs	<i>1002</i>
	1-L amber glass	2	None	OCHs	<i>1033</i>
	1-L amber glass	2	None	OPP _s	<i>1021</i>
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	<i>1043</i>
	1-L Poly	2	HNO ₃	Rads U & Th	—
	250 mL Poly	1	None	Cr 6	<i>1310</i>



Well ID: m120

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 11-28-06 Time: Start 1340 am/pm
 Project No: 04020-023-401 Finish 1540 am/pm
 Site Location: Henderson, NV
 Weather Conds: sunny, breezy ~ 100°F Collector(s): Eric Nelson, Ian Stone

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 88.50' ^(Top of dedicated pump) c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" / PVC
 b. Water Table Depth 75.53' d. Calculated System Volume (see back) 1.3 Liter

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>Horiba U-22 w/flow thru-cell</u>	<u>U-22TG-2</u>	<u>9292062</u>

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
<u>1427</u>								<u>320</u>	<u>75.89</u>	<u>colorless/None</u>
<u>1429</u>	<u>.640</u>	<u>20.7</u>	<u>6.43</u>	<u>1.84</u>	<u>8.18</u>	<u>207</u>	<u>3.3</u>	<u>320</u>	<u>75.89</u>	<u>"</u>
<u>1431</u>	<u>.640</u>	<u>20.8</u>	<u>6.63</u>	<u>1.92</u>	<u>7.99</u>	<u>202</u>	<u>3.1</u>	<u>320</u>	<u>75.89</u>	<u>"</u>
<u>1433</u>	<u>.640</u>	<u>20.8</u>	<u>6.77</u>	<u>1.92</u>	<u>7.89</u>	<u>196</u>	<u>2.4</u>	<u>320</u>	<u>75.89</u>	<u>"</u>
<u>1435</u>	<u>.640</u>	<u>20.8</u>	<u>6.92</u>	<u>1.92</u>	<u>7.74</u>	<u>199</u>	<u>1.8</u>	<u>320</u>	<u>75.89</u>	<u>"</u>

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below:

(continued on back)

e. Control box setting: _____

3. SAMPLE COLLECTION: Method: Dedicated bladder pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>m120</u>	<u>40 ml glass VOA</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u>1440</u>
	<u>40 ml glass VOA</u>	<u>3</u>	<u>HCL</u>	<u>TPH-GRO</u>	<u>---</u>
	<u>40 ml glass VOA</u>	<u>3</u>	<u>None</u>	<u>Fuel Alcohols</u>	<u>---</u>
	<u>1-L amber glass</u>	<u>2</u>	<u>None</u>	<u>TPH-DRO/ORO</u>	<u>---</u>
	<u>1-L amber glass</u>	<u>2</u>	<u>None</u>	<u>SVOCs</u>	<u>1447</u>
	<u>500-mL Poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1449</u>
	<u>125 mL poly/250 mL amber</u>	<u>1/1</u>	<u>None / H₂SO₄</u>	<u>Perchlorate / TOC</u>	<u>1450</u>
	<u>500-mL Poly</u>	<u>1</u>	<u>NaOH</u>	<u>Gen. Chem - Cyanide</u>	<u>1452</u>

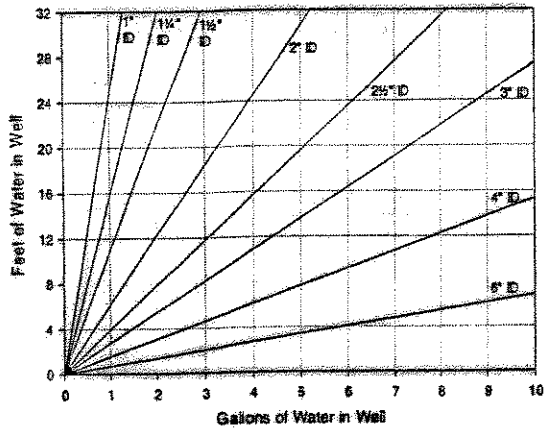
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Signature [Signature]

Date 11/28/06

Purge Volume Calculation

Well ID: *m120*



ID (in)	Volume / Linear Ft. of Pipe	
	Gallon	Liter
0.25	0.0025	0.0097
0.375	0.0057	0.0217
0.5	0.0102	0.0386
0.75	0.0229	0.0869
1	0.0408	0.1544
1.25	0.0637	0.2413
1.5	0.0918	0.3475
2	0.1632	0.6178
2.5	0.2550	0.9653
3	0.3672	1.3900
4	0.6528	2.4711
6	1.4688	5.5600

(continued from front)

Time (24 hr)	Volume Removed (Liters)	Temp (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

(continued from front)

Sample ID	Container Type	# of Containers	Preservation	Analysis Req.	Time
<i>m120</i>	1-L Poly	1	H ₂ SO ₄	Gen. Chem - NH ₃	<i>1453</i>
	1-L Poly	1	None	Gen. Chem - Anions	<i>1456</i>
	1-L Poly	1	None	Gen. Chem - Surfactants	<i>1500</i>
	1-L amber glass	2	None	OCPs	<i>1506</i>
	1-L amber glass	2	None	PCBs	<i>1520</i>
	1-L amber glass	2	None	OCHs	—
	1-L amber glass	2	None	OPP	<i>1515</i>
	1-L Poly	2	HNO ₃	Rads Ra-226 & Ra-228	<i>152</i>
	1-L Poly	2	HNO ₃	Rads U & Th	—
	250 mL Poly	1	None	Cr 6	<i>1529</i>



Well ID: MC45

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-6-06 Time: Start 0745 am/pm
 Project No: 04020-023-401 Finish 0930 am/pm
 Site Location: Henderson, NV
 Weather Conds: cool clear Collector(s): Eric Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length 35.33' c. Length of Water Column 7.48' (a-b) Casing Diameter/Material 2"/PVC
 b. Water Table Depth 27.85' d. Calculated System Volume (see back)

2. WELL PURGE DATA

a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
Horiba U-22 w/flow thru-cell	U-22TG-2	9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (uS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0800								290	27.86	cloudy/NONE
0806	1,740	19.9	6.99	13.5	5.61	202	160	290	27.86	"
0808	580	21.9	7.05	14.3	4.45	19.5	1.4	290	27.86	clear/NONE
0810	580	23.4	7.10	15.2	3.60	182	0.5	290	27.85	"
0813	580	23.6	7.12	15.6	3.45	176	—	290	27.86	"
0814	580	23.9	7.14	15.6	3.33	170	—	290	27.86	"

d. Acceptance criteria pass/fail.

	Yes	No	N/A
Has required volume been removed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

e. Control box setting: _____

3. SAMPLE COLLECTION: Method: pump #4

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M45</u>	40 ml glass VOA	3	HCL	VOC	<u>0820</u>
	40 ml glass VOA	3	HCL	TPH-GRO	
	40 ml glass VOA	3	None	Fuel Alcohols	
	1-L amber glass	2	None	TPH-DRO/ORO	
	1-L amber glass	2	None	SVOCs	<u>0824</u>
	500-mL Poly	1	HNO ₃	Metals	<u>0829</u>
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	<u>0831</u>
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	<u>0834</u>

Signature: _____

Date: 12/6/06



Well ID: PC40

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-1-06 Time: Start 0730 am/pm
 Project No: 04020-023-401 Finish 0905 am/pm
 Site Location: Henderson, NV
 Weather Conds: cold, clear Collector(s): Z. Diermiller, E. Nelson, I. Stone

1. WATER LEVEL DATA: (measured from Top of Casing)
 a. Total Well Length 57.12' c. Length of Water Column 34.22' (a-b) Casing Diameter/Material 2" / PVC
 b. Water Table Depth 22.90' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA
 a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used: Make Horiba U-22 w/flow thru-cell Model U-22TG-2 Serial Number 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0755								260	22.90	CLOUDY / NONE
0756								300	22.92	"
0758								380	22.92	"
0800								420	22.92	"
0802								420	22.92	"
0804	.840	18.4	5.89	15.8	4.93	209	—	420	22.92	"
0806	.840	20.9	6.30	16.5	3.83	189	715.0	420	22.92	"

- d. Acceptance criteria pass/fail
- | | | | |
|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| | Yes | No | N/A |
| Has required volume been removed | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has required turbidity been reached | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Have parameters stabilized | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
- If no or N/A - Explain below.

(continued on back)

e. Control box setting: _____

3. SAMPLE COLLECTION: Method: Dump #1

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>PC40</u>	40 ml glass VOA	3	HCL	VOC	0818
	40 ml glass VOA	3	HCL	TPH-GRO	—
	40 ml glass VOA	3	None	Fuel Alcohols	0820
	1-L amber glass	2	None	TPH-DRO/ORO	—
	1-L amber glass	2	None	SVOCs	0823
	500-mL Poly	1	HNO ₃	Metals	0822
	125 mL poly/250 mL amber	1/1	None / H ₂ SO ₄	Perchlorate / TOC	0825/0826
	500-mL Poly	1	NaOH	Gen. Chem - Cyanide	0828

(continued on back)

Signature [Handwritten Signature]

Date 12/1/06



Well ID: IAR

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 12-1-06 Time: Start 1355 am/pm
 Project No: 04020-023-401 Finish 1435 am/pm
 Site Location: Henderson, NV
 Weather Conds: Sunny, warm Collector(s): Zoe Diernier

1. WATER LEVEL DATA: (measured from Top of Casing)

- a. Total Well Length NM c. Length of Water Column _____ (a-b) Casing Diameter/Material 6" / steel
 b. Water Table Depth NM d. Calculated System Volume (see back) NA - IAR is a groundwater interceptor well, constantly pumping gw into treatment sys

2. WELL PURGE DATA

- a. Purge Method: Bladder pump w/QED controller (MP-10) and QED 3020 (12-volt air compressor)
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used: Make Model Serial Number
Horiba U-22 w/flow thru-cell U-22TG-2 9292062

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
<u>1430</u>		<u>19.2</u>	<u>7.17</u>	<u>8.83</u>	<u>9.12</u>	<u>183</u>	<u>—</u>			<u>CLEAR / NONE</u>

- d. Acceptance criteria pass/fail
- | | | | |
|-------------------------------------|--------------------------|--------------------------|-------------------------------------|
| | Yes | No | N/A |
| Has required volume been removed | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Has required turbidity been reached | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Have parameters stabilized | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
- If no or N/A - Explain below.

Extraction well IAR has dedicated electric submersible pump pumping at ~ 1/2 gal/min

e. Control box setting: _____

3. SAMPLE COLLECTION: Method: From discharge spigot on pipeline

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>IAR</u>	<u>40 ml glass VOA</u>	<u>3</u>	<u>HCL</u>	<u>VOC</u>	<u>1404</u>
	<u>40 ml glass VOA</u>	<u>3</u>	<u>HCL</u>	<u>TPH-GRO</u>	<u>—</u>
	<u>40 ml glass VOA</u>	<u>3</u>	<u>None</u>	<u>Fuel Alcohols</u>	<u>—</u>
	<u>1-L amber glass</u>	<u>2</u>	<u>None</u>	<u>TPH-DRO/ORO</u>	<u>—</u>
	<u>1-L amber glass</u>	<u>2</u>	<u>None</u>	<u>SVOCs</u>	<u>1407</u>
	<u>500-mL Poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1408</u>
	<u>125 mL poly/250 mL amber</u>	<u>1/1</u>	<u>None / H₂SO₄</u>	<u>Perchlorate / TOC</u>	<u>1408/1</u>
	<u>500-mL Poly</u>	<u>1</u>	<u>NaOH</u>	<u>Gen. Chem - Cyanide</u>	<u>1409</u>

Signature: [Signature]

Date: 12/1/06

**Field Sheets
May 2007**



Well ID: M120

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5-4-07 Time: Start 1340 am/pm
 Project No: 04020-023-~~105~~ 401 Finish 1412 am/pm
 Site Location: Henderson, NV
 Weather Conds: breezy, warm ~75°F Collector(s): B. Ho, Z Diermier, E Nelson

1. WELL LEVEL DATA: (measured from Top of Casing)
 a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 80.52 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA
 a. Purge Method: _____
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used: Make YSC Model 650 MDS Serial Number _____

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1350	3.0	24.16	7.46	2200	5.53	26.8	0.1	150	80.62	clear / none
1351	3.5	23.44	7.40	2162	4.99	59.0	0.00	150	80.67	
1353	3.75	23.24	7.37	2145	4.89	75.1	0.00	150	80.68	
1355	4.25	22.80	7.35	2117	4.75	98.1	0.00	150	80.69	
1400	4.45	22.78	7.32	2127	4.65	126.4	0.00	150	80.72	

d. Acceptance criteria pass/fail
 Has required volume been removed Yes No N/A
 Has required turbidity been reached Yes No N/A
 Have parameters stabilized Yes No N/A
 If no or N/A - Explain below.

e. Control box setting: 4 cpm 45 psi

3. SAMPLE COLLECTION: Method: dedicated pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M120-L</u>	125 mL poly	1	None	Perchlorate	<u>1405</u>
	125 mL poly	1	None	TDS	
	60 mL poly	1	EDA	Chlorate	
	125 mL poly	1	None	Nitrate	
	125 mL poly	1	HNO ₃	Total Chromium	

Signature _____ Date _____



Well ID: M120

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5-4-07 Time: Start 1413 am/pm
 Project No: 04020-023-401 Finish 1445 am/pm
 Site Location: Henderson, NV
 Weather Conds: partly cloudy, breezy ~70°F Collector(s): B. Ho, Z Diermier, E Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 80.76 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used: Make ysi Model 650 MDS Serial Number _____
La Motte 2020 Turbidimeter

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1414	4.5							200	80.78	clear/none
1417	5.25						2.6 ⁸⁰	250	80.81	
1418	5.50	21.89	7.36	2119	4.47	68.3	0.00	320	80.85	
1421	6.50	21.82	7.34	2120	4.09	87.4	0.25	320	80.87	
1423	7.10	21.73	7.35	2125	4.00	101.5	0.05	320	80.92	
1425	7.75	21.70	7.34	2127	3.98	111.2	0.00	320	80.94	
1426	8.10	21.72	7.34	2128	3.99	118.9	0.35	320	80.96	↓

d. Acceptance criteria pass/fail Yes No N/A (continued on back)
 Has required volume been removed
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

e. Control box setting: 4 cpm 49 psi

3. SAMPLE COLLECTION: Method: Dedicated pump

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
M120-F	500-mL poly	1	HNO ₃	Metals	1435
M120-F	1-L poly	2	HNO ₃	Rads Ra-226 & Ra-228	1435
	1-L poly	2	HNO ₃	Rads U & Th	
M120-F	500-mL poly	1	None	Cr ₆	1435

(continued on back)

Signature [Signature] Date 5-4-07



Well ID: PC40

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5-07-07 Time: Start 1010 am/pm
 Project No: 04020-023-401 Finish 1130 am/pm
 Site Location: Henderson, NV
 Weather Conds: Sunny, warm ~ 75°F Collector(s): B Ho, Z Diermie, E Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 22.65 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

- b. Acceptance Criteria defined (see workplan)
- Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: _____ Make _____ Model _____ Serial Number _____

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1030	1.1	26.45	7.21	17319	1.50	170.5	790	100	22.65	CLOUDY BROWN
1043	1.7	26.13	7.06	17180	1.01	191.4	700	100	22.65	↓
1046	2.0	26.23	7.08	17242	0.96	206.3	400	100	22.64	↓
1050	2.4	26.20	7.04	17240	0.96	214.2	340	100	22.67	CLOUDY
1053	2.7	26.18	7.04	17216	0.87	223.0	200	100	22.65	CLOUDY

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 30 psi

3. SAMPLE COLLECTION:

Method: pump #4

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
PC40-L	500-mL poly	1	HNO ₃	Metals	1100
PC40-L	1-L poly	2	HNO ₃	Rads Ra-226 & Ra-228	1100
PC40-L	1-L poly	2	HNO ₃	Rads U & Th	
PC40-L	500-mL poly	1	None	Cr ₆	1215

(continued on back)

Signature: [Signature] Date: 5/7/07



Well ID: PC40

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/7/07 Time: Start 1130 am/pm
 Project No: 04020-023-401 Finish 1230 am/pm
 Site Location: Henderson, NV
 Weather Conds: warm, breezy ~75°F Collector(s): B. Ho, Z Diermier, E Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 22.67 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make _____ Model _____ Serial Number _____

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1133	7.0	25.90	7.23	17213	1.26	39.5	0.00	400	22.67	clear
1135	7.8	25.70	7.13	17102	0.62	71.2	0.00	400	22.67	
1137		25.70	7.08	17105	0.56	96.2	0.00	400	22.68	
1139		25.41	7.05	17077	0.50	114.0	0.00	400	22.67	
1141		25.58	7.05	17050	0.47	128.0	5.0	400	22.69	
1142		25.63	7.04	17028	0.46	144.7	0.00	400	22.67	
1143		25.41	7.04	17040	0.44	155.7	0.00	400	22.69	

d. Acceptance criteria pass/fail Yes No N/A (continued on back)

Has required volume been removed

Has required turbidity been reached

Have parameters stabilized

If no or N/A - Explain below.

e. Control box setting: 4 cpm 42 psi

3. SAMPLE COLLECTION: Method: pump #4

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
PC40-F	500-mL poly	1	HNO ₃	Metals	1145
PC40-F	1-L poly	2	HNO ₃	Rads Ra-226 & Ra-228	1145
	1-L poly	2	HNO ₃	Rads U & Th	
PC40-F	500-mL poly	1	None	Cr ₆	1145

(continued on back)

Signature [Signature] Date 5-7-07



Well ID: MC45

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5-7-07 Time: Start 1330 am/pm
 Project No: 04020-023-401 Finish 1445 am/pm
 Site Location: Henderson, NV
 Weather Conds: hot, breeze ~ 88°F Collector(s): B. Ho, Z. Diernier, E. Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length c. Length of Water Column (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 22.60 d. Calculated System Volume (see back)

2. WELL PURGE DATA

a. Purge Method:

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>ysi</u>	<u>600x/1650mDS</u>	
<u>LoMatte</u>	<u>2020 Turbidity meter</u>	

Time (24hr)	Volume (Liters)	Remove Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
<u>1402</u>	<u>0.5</u>	<u>28.99</u>	<u>7.70</u>	<u>16535</u>	<u>1.61</u>	<u>-29.6</u>	<u>0.00</u>	<u>100</u>	<u>26.63</u>	<u>CLEAR</u>
<u>1405</u>	<u>0.9</u>	<u>29.30</u>	<u>7.44</u>	<u>16488</u>	<u>1.12</u>	<u>24.8</u>	<u>0.00</u>	<u>100</u>	<u>26.61</u>	<u>"</u>
<u>1407</u>	<u>0.9</u>	<u>29.30</u>	<u>7.44</u>	<u>16488</u>	<u>1.12</u>	<u>24.8</u>	<u>0.00</u>	<u>100</u>	<u>26.61</u>	<u>"</u>
<u>1410</u>	<u>1.2</u>	<u>29.37</u>	<u>7.33</u>	<u>16544</u>	<u>1.09</u>	<u>74.2</u>	<u>0.00</u>	<u>100</u>	<u>26.61</u>	<u>"</u>
<u>1412</u>	<u>1.4</u>	<u>29.22</u>	<u>7.31</u>	<u>16587</u>	<u>1.09</u>	<u>1007</u>	<u>0.00</u>	<u>100</u>	<u>26.61</u>	<u>"</u>
<u>1415</u>	<u>1.7</u>	<u>29.49</u>	<u>7.29</u>	<u>16549</u>	<u>1.13</u>	<u>123.5</u>	<u>0.00</u>	<u>100</u>	<u>26.62</u>	<u>"</u>
<u>1416</u>	<u>1.8</u>	<u>29.47</u>	<u>7.28</u>	<u>16541</u>	<u>1.13</u>	<u>139.1</u>	<u>0.85</u>	<u>100</u>	<u>26.61</u>	<u>"</u>

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 16 psi

3. SAMPLE COLLECTION:

Method: pump #3

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>MC45-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1420</u>
<u>MC45-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>1420</u>
<u>MC45-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	<u>1420</u>
<u>MC45-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	<u>1420</u>

(continued on back)

Signature [Signature] Date 5-7-07



Well ID: MC45

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/7/07 Time: Start 1445 am/pm
 Project No: 04020-023-401 Finish 1520 am/pm
 Site Location: Henderson, NV
 Weather Conds: Hot, breezy - 90°F Collector(s): B. Ho, Z. Dierman, E. Welsch

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length c. Length of Water Column (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 26.62 d. Calculated System Volume (see back)

2. WELL PURGE DATA

a. Purge Method:

- b. Acceptance Criteria defined (see workplan)
- Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>YSI</u>	<u>660X1/650 MDS</u>	
<u>LaMotte</u>	<u>2020 turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1449	2.0	27.01	7.24	16024	1.34	38.6	1.20	280	26.62	CLEAR
1450	2.3	26.55	7.42	15711	0.73	79.0	0.00	280	26.61	
1452	2.9	26.24	7.32	15595	0.55	122.8	0.00	280	26.61	
1453	3.2	26.10	7.28	15534	0.51	154.4	0.00	280	26.61	
1455	3.8	24.03	7.25	15491	0.50	179.9	0.00	280	26.62	
1457		26.02	7.23	15472	0.47	203.3	0.00	280	26.62	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

e. Control box setting: 4 cpm 30 psi

3. SAMPLE COLLECTION: Method: pump #3

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>MC45-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1515</u>
<u>MC45-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>1515</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>MC45-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	<u>1515</u>

(continued on back)

Signature Date 5-7-07

Chain of Custody Record

Earth City, MO 63045

phone 314-298-8566 fax 314-298-8757

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact: Brian Ho		Date: 5-7-07		COC No: 050707-2											
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: Melania Harris		Carrier: FEDEX		1 of 2 COCs											
2 Technology Park Dr.		Analysis Turnaround Time				Filtered Sample Metals, Total (6010B) Metals, Dissolved (6010B) VOCs (8260B/5035**) SVOCs (8270C) SVOCs (8270 SIM) PCBs (8082) TPH (8015M/5035** /3550) Perchlorate (314.0) OCPs (8081A) OCHs (8151) General Chemistry Fuel Alcohols (8015B)		Job No.		04020-023-401											
Westford/MA/01886-3140		Calendar (C) or Work Days (W)						SDG No.													
(978) 589-3324 Phone		TAT if different from Below <u>28 days</u>						Sample Specific Notes:													
(978) 589-3282 FAX		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day																			
Project Name: Source Area Investigation																					
Site: Henderson, NV																					
P O #																					
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Metals, Total (6010B)	Metals, Dissolved (6010B)	VOCs (8260B/5035**)	SVOCs (8270C)	SVOCs (8270 SIM)	PCBs (8082)	TPH (8015M/5035** /3550)	Perchlorate (314.0)	OCPs (8081A)	OCHs (8151)	General Chemistry	Fuel Alcohols (8015B)			
PB050707-2	5/7/07	1000		W	1		X														
PC40-L	5/7/07	1100		W	1		X														
PC40-F	5/7/07	1145		W	1		X	X													
PC40-Z	5/7/07	1200		W	1		X														
MC45-L	5/7/07	1420		W	1		X														
MC45-F	5/7/07	1515		W	1		X	X													
MC45-Z	5/7/07	1530		W	1		X														
EB050707-2	5/7/07	1515		W	1		X														
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)															
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months															
Special Instructions/QC Requirements & Comments:																					
Coordinate sample reception with Melania Harris (STL - St. Louis)																					
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:																
ZOE DIERMIR	ENSR	5/7/07 16:25																			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:																
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:																



Well ID: M7B

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5-8-07 Time: Start 600 am/pm
 Project No: 04020-023-401 Finish 075 am/pm
 Site Location: Henderson, NV
 Weather Conds: warm, calm ~70°F Collector(s): E Nelson, E Diemier

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 35.32 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>YSI</u>	<u>600 XI/650 MDS</u>	
<u>Lamotte</u>	<u>2020</u>	

Time (24hr)	Volume		pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
	Remove (Liters)	Temp. (°C)								
06:49	0.5	23.23	7.38	9931	2.04	296.5	150	100	35.32	cloudy
0650	0.6	23.29	7.39	9944	2.01	288.8	150	100	35.33	"
0652	0.8	23.33	7.35	9959	1.95	281.8	140	100	35.33	"
0654	1.0	23.34	7.33	9972	1.89	275.5	85	100	35.32	"
0655	1.1	23.36	7.32	9976	1.87	270.7	70	100	35.32	clear
0657	1.3	23.40	7.29	9979	1.84	265.7	70	100	35.33	"
0658	1.4	23.43	7.28	9985	1.78	261.7	70	100	35.33	"

d. Acceptance criteria pass/fail

Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 25 psi

3. SAMPLE COLLECTION: Method: pump #1

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M7B-L</u>	500-mL poly	1	HNO ₃	Metals	<u>0700</u>
<u>M7B-L</u>	1-L poly	2	HNO ₃	Rads Ra-226 & Ra-228	<u>0700</u>
	1-L poly	2	HNO ₃	Rads U & Th	
<u>M7B-L</u>	500-mL poly	1	None	Cr ₆	

(continued on back)

Signature [Signature] Date 5/8/07



Well ID: M7B

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5-8-07 Time: Start 0715 am/pm
 Project No: 04020-023-401 Finish 0750 am/pm
 Site Location: Henderson, NV
 Weather Conds: Warm ~70°F Collector(s): E Nelson, Z Decmier, B Ho

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 35.33 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>Ysi</u>	<u>600 XI / 650 MOS</u>	
<u>La Motte</u>	<u>2020 Turbidity meter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0723	2.0	24.2	7.28	10191	1.57	182.4	27	300	35.57	CLEAR
0725	2.6	24.24	7.30	10172	1.24	185.2	11	300	35.58	"
0726	2.9	24.2	7.27	10164	1.14	187.9	11	300	35.59	"
0727	3.2	24.19	7.27	10154	1.12	189.2	9.7	300	35.59	"
0728	3.5	24.19	7.26	10155	1.12	190.4	7.6	300	35.61	"
0729	3.8	24.19	7.23	10155	1.06	191.8	6.1	300	35.62	"

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 40 psi

3. SAMPLE COLLECTION:

Method: pump #1

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M7B-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0745</u>
<u>M7B-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0745</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M7B-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature]

Date 5/8/07



Well ID: M55

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/8/07 Time: Start 0800 am/pm
 Project No: 04020-023-401 Finish 0850 am/pm
 Site Location: Henderson, NV
 Weather Conds: Warm, breezy ~75°F Collector(s): B. Ho, Z. Dromier, E. Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material _____
 b. Water Table Depth _____ d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>ISI</u>	<u>600x1/650 MDS</u>	
<u>LaMotte</u>	<u>2020 Turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0830	0.5	25.71	7.07	10715	1.42	114.8	3.5	100	29.15	yellow/green/clear
0831	0.6	25.81	6.99	10786	1.31	125.3	2.5	100	29.14	
0832	0.7	26.30	6.97	10786	1.30	145.3	6.4	100	29.16	
0833	0.8	26.32	6.95	10766	1.31	157.2	2.0	100	29.17	
0834	0.9	26.12	6.94	10757	1.28	170.9	6.0	100	29.14	
0836	1.1	25.78	6.93	10728	1.27	184.4	1.0	100	29.16	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

e. Control box setting: 4 cpm 22 psi

3. SAMPLE COLLECTION: Method: pump #2

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M55-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0840</u>
<u>M55-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0940</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M55-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

Signature: [Signature] Date: 5/8/07

(continued on back)



Well ID: M55

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/8/07 Time: Start 0855 am/pm
 Project No: 04020-023-401 Finish 0935 am/pm
 Site Location: Henderson, NV
 Weather Conds: warm, breezy ~ 75°F Collector(s): B. Ho, E Nelson, ZDwimer

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth _____ d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>LaMotte</u>	<u>600 XI / 658 MDS</u>	<u>3020 Turbidimeter</u>

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0901	1.5	25.50	7.15	10703	1.09	90.4	0.00	350	29.18	yellow/green clear
0902	1.85	25.57	7.03	10697	0.81	115.9	0.00	350	29.14	
0903	2.20	25.39	6.97	10644	0.72	140.9	0.00	350	29.18	
0904	2.55	25.51	6.94	10643	0.65	161.2	0.00	350	29.16	
0906	3.25	25.34	6.92	10620	0.61	180.9	0.00	350	29.16	
0907	3.60	25.32	6.90	10616	0.57	193.9	0.00	350	29.18	
0909	4.30	25.40	6.90	10621	0.57	206.5	0.00	350	29.17	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 39 psi

3. SAMPLE COLLECTION: Method: pump #2

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M55-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0930</u>
<u>M55-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0930</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M55-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/8/07



Well ID: M92

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/8/07 Time: Start 0945 am/pm
 Project No: 04020-023-401 Finish 1315 am/pm
 Site Location: Henderson, NV
 Weather Conds: w/22-24, w/1-2 m ~ 88°F Collector(s): ED Yemier, B. Ho, E Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 37.26 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Model Serial Number

<u>YSL</u>	<u>600 x 1/650 MDS</u>	
<u>La Motte</u>	<u>2000 turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1014	1.0	26.82	7.65	2334	7.49	89.2	0.0	100	37.31	slightly cloudy
1016	1.2	27.36	7.57	2346	7.31	110.1	110.0	100	37.31	"
1018	1.4	26.57	7.54	2325	7.31	135.2	81.6	100	37.32	"
1056	2.0	29.33	7.59	2427	6.96	213.1	61.2	100	37.32	clear
1058	2.2	28.52	7.54	2430	6.97	211.8	39.1	100	37.31	clear
1059	2.3	29.11	7.53	2432	6.92	227.4	32.7	100	37.30	clear
1100	2.4	28.73	7.52	2421	6.93	232.2	33.7	100	37.31	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 23 psi

3. SAMPLE COLLECTION: Method: pump # 3

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M92-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1100</u>
<u>M92-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>1100</u>
<u>M92-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	<u>1100</u>
<u>M92-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	<u>1315</u>

(continued on back)

Signature [Signature]

Date 5/8/07



Well ID: m92

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/8/07 Time: Start 1320 am/pm
 Project No: 04020-023-401 Finish 1420 am/pm
 Site Location: Henderson, NV
 Weather Conds: breezy, warm ~88°F Collector(s): B. M. E. Nelson, Z. D. ...

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 37.38 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Model Serial Number

<u>YSI</u>	<u>600 xl/650 mds</u>	
<u>La Motte</u>	<u>2020a turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1328	10.0	25.95	8.57	2359	8.42	-33.2	6.63	300	37.38	CLEAR
1330	10.6	25.44	8.05	2321	7.41	31.9	5.41	300	37.38	CLEAR
1332	11.2	25.22	7.87	2304	14.94	79.1	4.39	300	37.37	CLEAR
1334	11.8	24.98	7.75	2292	14.71	110.6	3.25	300	37.38	CLEAR
1336	12.4	25.02	7.68	2289	14.62	134.6	3.69	300	37.37	CLEAR
1338	13.0	24.91	7.64	2287	14.46	153.8	3.69	300	37.38	CLEAR

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 38 psi

3. SAMPLE COLLECTION: Method: pump #3

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>m92-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1400</u>
<u>m92-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>1400</u>
<u>m92-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	<u>1400</u>
<u>m92-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	<u>1400</u>

(continued on back)

Signature [Handwritten Signature]

Date 5/8/07



Richland, WA 99354
phone 509-375-3131 fax 509-375-5590

Chain of Custody Record

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy			Site Contact: <i>Melania Harris</i>			Date: <i>7/8/11</i>			COC No: <i>04020-023-401</i>		
ENSR		Tel/Fax: (978) 589-3324			Lab Contact: <i>Melania Harris</i>			Carrier: <i>6/2/11</i>			_____ of _____ COCs		
2 Technology Park Dr.		Analysis Turnaround Time			Calendar (C) or Work Days (W) FAT if different from Below <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							Job No.	
Westford/MA/01886-3140												04020-023-401	
(978) 589-3324 Phone												SDG No.	
(978) 589-3282 FAX													
Project Name: Source Area Investigation													
Site: Henderson, NV					Filtered Sample Ra-226/Ra-228 Iso-U/Iso-Th							Sample Specific Notes:	
P O #													

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.																																
M75-L	7/7/11	07:00		W	1		X																														
M75-F	7/7/11	07:00		W	1		X																														
M75-L	7/7/11	07:00		W	1		X																														
M85-L	7/7/11	07:00		W	1		X																														
M85-F	7/7/11	07:00		W	1		X																														
M75-L	7/7/11	07:00		W	2		XX																														
M75-L	7/7/11	07:00		W	2		XX																														
M75-L	7/7/11	07:00		W	2		XX																														
M75-F	7/7/11	07:00		W	2		XX																														
M75-F	7/7/11	07:00		W	2		XX																														
M75-L	7/7/11	07:00		W	2		XX																														

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:
 Coordinate sample reception with Melania Harris (STL - St. Louis)
Melania Harris

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Date/Time]</i>	<i>[Signature]</i>		
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Chain of Custody Record



Richland, WA 99354
phone 509-375-3131 fax 509-375-5590

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact:			Date:			COC No:			
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: <i>Melania Harris</i>			Carrier:			of COCs			
2 Technology Park Dr. Westford/MA/01886-3140		Analysis Turnaround Time				Filtered Sample Ra-226/Ra-228 Iso-U/Iso-Th						Job No.			
(978) 589-3324 Phone		Calendar (C) or Work Days (W)										<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		04020-023-401 SDG No.	
(978) 589-3282 FAX		TAT if different from Below													
Project Name: Source Area Investigation															
Site: Henderson, NV															
P O #									Sample Specific Notes:						
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Ra-226/Ra-228	Iso-U/Iso-Th								
<i>113-Z</i>	<i>4/0</i>			<i>W</i>	<i>2</i>	<i>X</i>	<i>X</i>								
<i>TAR-F</i>	<i>4/0/1220</i>			<i>W</i>	<i>1</i>	<i>X</i>									
<i>TAR-E</i>	<i>4/0/1227</i>			<i>W</i>	<i>1</i>	<i>X</i>									
<i>22050807-Z</i>	<i>4/0/1220</i>			<i>W</i>	<i>2</i>	<i>X</i>	<i>X</i>								

Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
--	--	--	--	--	--	--	--	--	--

Special Instructions/QC Requirements & Comments:
 Coordinate sample reception with *Melania Harris (STL - St. Louis)*

Relinquished by: <i>Bob McHenry</i>	Company: <i>STL</i>	Date/Time: <i>4/0/2007</i>	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Chain of Custody Record

Earth City, MO 63045
phone 314-298-8566 fax 314-298-8757

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact: Brian Ho				Date: 5-8-07				COC No: 050207-3																									
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: Melania Harris				Carrier: FEDEX				1 of 2 COC's																									
2 Technology Park Dr.		Analysis Turnaround Time				Filtered Sample Metals, Total (6010B) Metals, Dissolved (6010B) VOCs (8260B/5035**) SVOCs (8270C) SVOCs (8270 SIM) PCBs (8082) TPH (8015M/5035**) (3550) Perchlorate (3140) OCPs (8081A) OCHs (8151) General Chemistry Fuel Alcohols (8015B)				Calendar (C) or Work Days (W)				Job No.																									
Westford/MA/01886-3140		TAT if different from Below <u>2 days</u>								04020-023-401																													
(978) 589-3324 Phone		<input type="checkbox"/> 2 weeks								SDG No.																													
(978) 589-3282 FAX		<input type="checkbox"/> 1 week								Sample Specific Notes:																													
Project Name: Source Area Investigation		<input type="checkbox"/> 2 days																																					
Site: Henderson, NV		<input type="checkbox"/> 1 day																																					
P O #																																							
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Metals, Total (6010B)	Metals, Dissolved (6010B)	VOCs (8260B/5035**)	SVOCs (8270C)	SVOCs (8270 SIM)	PCBs (8082)	TPH (8015M/5035**) (3550)	Perchlorate (3140)	OCPs (8081A)	POCHs (8151)	General Chemistry	Fuel Alcohols (8015B)																					
M7B-L	5/4/07	0700		W	1		X																																
M7B-F	5/4/07	0745		W	1		X	X																															
M7B-Z	5/8/07	0755		W	1		X																																
M55-L	5/8/07	0810		W	1		X																																
M55-F	5/8/07	0840		W	1		X	X																															
M55-Z	5/8/07	0950		W	1		X																																
M92-L	5/8/07	1000		W	1		X																																
M92-L	5/8/07	1100		W	1		X																																FOR MS
M92-L	5/8/07	1100		W	1		X																															FOR MS	
M92-F	5/8/07	1400		W	1		X	X																															
M92-F	5/8/07	1400		W	1		X	X																															FOR MS
M92-F	5/8/07	1400		W	1		X	X																															FOR MS
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																	
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																	
Special Instructions/QC Requirements & Comments:																																							
Coordinate sample reception with Melania Harris (STL - St. Louis) Tony Everett																																							
Relinquished by:				Company:				Date/Time:				Received by:				Company:				Date/Time:																			
ZOE DIEMER				ENSR				5/8/07 16:05																															
Relinquished by:				Company:				Date/Time:				Received by:				Company:				Date/Time:																			
Relinquished by:				Company:				Date/Time:				Received by:				Company:				Date/Time:																			

Chain of Custody Record



Earth City, MO 63045
phone 314-298-8566 fax 314-298-8757

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact: <i>Brian Ho</i>				Date: <i>5-2-07</i>				COC No: <i>251807-4</i>																														
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: <i>Melania Harris</i>				Carrier: <i>FOA</i>				2 of 2 COCs																														
2 Technology Park Dr.		Analysis Turnaround Time																																										
Westford/MA/01886-3140		Calendar (C) or Work Days (W) _____				<table border="1"> <tr> <td rowspan="5">Filtered Sample</td> <td>Metals, Total (6010B)</td> <td></td> </tr> <tr> <td>Metals, Dissolved (6010B)</td> <td></td> </tr> <tr> <td>VOCs (8260B/5035**)</td> <td></td> </tr> <tr> <td>SVOCs (8270C)</td> <td></td> </tr> <tr> <td>SVOCs (8270 SIM)</td> <td></td> </tr> <tr> <td>PCBs (8082)</td> <td></td> </tr> <tr> <td>TPH (8015M/5035** /5550)</td> <td></td> </tr> <tr> <td>Perchlorate (314.0)</td> <td></td> </tr> <tr> <td>OCFs (8081A)</td> <td></td> </tr> <tr> <td>OCHs (8151)</td> <td></td> </tr> <tr> <td>General Chemistry</td> <td></td> </tr> <tr> <td>Fuel Alcohols (8015B)</td> <td></td> </tr> </table>										Filtered Sample	Metals, Total (6010B)		Metals, Dissolved (6010B)		VOCs (8260B/5035**)		SVOCs (8270C)		SVOCs (8270 SIM)		PCBs (8082)		TPH (8015M/5035** /5550)		Perchlorate (314.0)		OCFs (8081A)		OCHs (8151)		General Chemistry		Fuel Alcohols (8015B)		Job No. 04020-023-401			
Filtered Sample	Metals, Total (6010B)																																											
	Metals, Dissolved (6010B)																																											
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General Chemistry																																												
Fuel Alcohols (8015B)																																												
(978) 589-3324 Phone		TAT if different from Below <i>2 weeks</i>				<table border="1"> <tr> <td><input type="checkbox"/></td> <td>2 weeks</td> </tr> <tr> <td><input type="checkbox"/></td> <td>1 week</td> </tr> <tr> <td><input type="checkbox"/></td> <td>2 days</td> </tr> <tr> <td><input type="checkbox"/></td> <td>1 day</td> </tr> </table>														<input type="checkbox"/>	2 weeks	<input type="checkbox"/>	1 week	<input type="checkbox"/>	2 days	<input type="checkbox"/>	1 day	SDG No.																
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<input type="checkbox"/>	1 week																																											
<input type="checkbox"/>	2 days																																											
<input type="checkbox"/>	1 day																																											
(978) 589-3282 FAX		Sample Specific Notes:																																										
Project Name: Source Area Investigation																																												
Site: Henderson, NV																																												
P O #		Sample Date		Sample Time		Sample Type		Matrix		# of Cont.																																		
M92 - Z		5/1/07 1445				W		1		X																																		
IAR - F		5/1/07 1220				W		1		X X																																		
IAR - Z		5/1/07 1225				W		1		X																																		
EB050807-Z		5/1/07 1500				W		1		X																																		
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																										
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																										
Special Instructions/QC Requirements & Comments:																																												
Coordinate sample reception with Melania Harris (STL - St. Louis)																																												
<i>Jerry Everett</i>																																												
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<i>JOE DIX & MILER</i>		<i>ENSR</i>		<i>5/2/07 16:05</i>																																								
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:																																		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:																																		

Chain of Custody Record



Santa Ana, CA 92705
phone 714-258-8610 fax 714-258-0921

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact: Brian Ho				Date: 5-8-07				COC No: 050907-5			
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: Melania Harris				Carrier: FedEx				L of 2 COCs			
2 Technology Park Dr.		Analysis Turnaround Time				Filtered Sample Hexavalent Chromium (7199)				JERRY EVERETT				Job No.			
Westford/MA/01886-3140		Calendar (C) or Work Days (W)												04020-023-401			
(978) 589-3324 Phone		TAT if different from Below 21 days												SDG No.			
(978) 589-3282 FAX		<input type="checkbox"/> 2 weeks												Sample Specific Notes:			
Project Name: Source Area Investigation		<input type="checkbox"/> 1 week															
Site: Henderson, NV		<input type="checkbox"/> 2 days															
P O #		<input type="checkbox"/> 1 day															
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.												
M7B-L	5/1/07	1315		W	1	X											
M7B-F	5/1/07	1320		W	1	XX											
M7B-Z	5/1/07	1325		W	1	X											
M92-L	5/1/07	1315		W	1	X											
M92-L	5/1/07	1315		W	1	X									FOR MS		
M92-L	5/1/07	1315		W	1	X									FOR MSD		
IAR-F	5/1/07	1220		W	1	XX											
IAR-Z	5/1/07	1225		W	1	X											
M55-L	5/1/07	1240		W	1	X											
M55-F	5/1/07	1245		W	1	XX											
M55-Z	5/1/07	1250		W	1	X											
M92-F	5/1/07	1400		W	1	XX											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Special Instructions/QC Requirements & Comments:																	
Coordinate sample reception with Melania Harris (STL - St. Louis) Jerry Everett Short Hold Time!																	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received by:		Company:			
ZOE SIKKIMAR		ENSR		5/8/07 1600													
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received by:		Company:			
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Received by:		Company:			

STL Los Angeles

1721 South Grand Avenue

Santa Ana, CA 92705

phone 714-258-8610 fax 714-258-0921

Chain of Custody Record



STL

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy		Site Contact: Brian Ho		Date: 5-8-07		COC No: 050807-10		
ENSR		Tel/Fax: (978) 589-3324		Lab Contact: Melania Harris		Carrier: FedEx		2 of 2 COCs		
2 Technology Park Dr.		Analysis Turnaround Time		Jerry Everett Hexavalent Chromium (7199)				Job No.		
Westford/MA/01886-3140		Calendar (C) or Work Days (W)						04020-023-401		
(978) 589-3324 Phone		TAT if different from Below 23 days						SDG No.		
(978) 589-3282 FAX		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Sample Specific Notes:		
Project Name: Source Area Investigation								FOR MS FOR MSD		
Site: Henderson, NV										
PO#										
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.					
M92-F	5/4/07	1400		W	1	X				
M92-F	5/4/07	1400		W	1	X				
M92-Z	5/4/07	1415		W	1	X				
M92-F										
M92-Z										
EG05D807-Z	5/4/07	1500		W	1	X				
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements & Comments:										
Coordinate sample reception with Melania Harris (STL - St. Louis) Jerry Everett Short Hold Time!										
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:		
ZOE WIERMIEC		ENSR		5/8/07 1600						
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:		
Relinquished by:		Company:		Date/Time:		Received by:		Date/Time:		



Well ID: M100

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/9/07 Time: Start 0545 am/pm
 Project No: 04020-023-401 Finish 0700 am/pm
 Site Location: Henderson, NV
 Weather Conds: cool clear ~68°F Collector(s): E Nelson, Z Diemier

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 26.82' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>Ysi</u>	<u>600x1/650 MOS</u>	
<u>LaMotte</u>	<u>3020a Turbidity meter</u>	

Time (24hr)	Volume									
	Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0622	1.0L	20.48	7.54	1973	1.75	109.6	4.46	100	26.84	clear
0627	1.5L	20.60	7.56	1980	1.24	109.7	5.33	100	26.85	clear
0629	1.7L	20.67	7.54	1983	1.14	109.6	1.30	100	26.84	clear
0631	1.9L	20.70	7.52	1989	1.06	109.2	2.54	100	26.86	clear
0634	2.2	20.91	7.50	1995	0.97	109.1	1.38	100	26.84	clear
0636	2.4	20.93	7.49	1998	0.92	108.9	1.58	100	26.86	clear

d. Acceptance criteria pass/fail (continued on back)

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

e. Control box setting: 4 cpm 15 psi

3. SAMPLE COLLECTION: Method: pump #1

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M100-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0645</u>
<u>M100-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0645</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M100-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/9/07



Well ID: M100

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/9/07 Time: Start 0700 am/pm
 Project No: 04020-023-401 Finish 0740 am/pm
 Site Location: Henderson, NV
 Weather Conds: warm, calm ~70°F Collector(s): E Nelson, Z Diver

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 26.89' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make _____ Model _____ Serial Number _____

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0702	4.0	21.62	7.52	2029	1.50	101.8	1.73	350	26.89	clear
0705	4.7	21.72	7.52	2034	1.31	101.9	0.49	350	26.96	↓
0707	5.4	21.76	7.49	2033	0.94	102.1	2.21	350	26.94	↓
0711	6.45	21.71	7.46	2032	0.89	102.3	3.55	350	26.90	↓
0713	7.15	21.63	7.46	2024	0.81	102.2	1.91	350	26.94	↓

d. Acceptance criteria pass/fail Yes No N/A (continued on back)

Has required volume been removed

Has required turbidity been reached

Have parameters stabilized

If no or N/A - Explain below.

e. Control box setting: 4 cpm 27 psi

3. SAMPLE COLLECTION: Method: pump #1

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M100-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0715</u>
<u>M100-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0715</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/9/07



Well ID: M2A

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/9/07 Time: Start 0745 am/pm
 Project No: 04020-023-401 Finish 0855 am/pm
 Site Location: Henderson, NV
 Weather Conds: Warm ~70°F Collector(s): B Ho, E Nelson, Z Diem

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 41.61' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>1/50 La Motte</u>	<u>600x1/650mDS</u>	<u>2020e Turbidimeter</u>

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0822	1.0	24.38	7.18	10619	6.24	119.3	113	100	41.61	yellow/slig
0823	1.1	24.46	7.19	10677	6.21	124.7	94.6	100	41.61	↓
0825	1.3	24.48	7.18	10700	6.22	124.0	79.4	100	41.61	↓
0826	1.4	24.51	7.19	10723	6.22	133.6	69.9	100	41.62	↓
0828	1.6	24.45	7.19	10754	6.22	137.8	64.2	100	41.63	↓
0830	1.8	24.37	7.19	10753	6.22	141.3	56.0	100	41.62	↓

slightly cloudy ↓

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 25 psi (N₂ tank)

3. SAMPLE COLLECTION: Method: pump #4

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M2A-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0835</u>
<u>M2A-L</u>	<u>1-L poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0835</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature: [Signature] Date: 5/9/07



Well ID: M2A

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/9/07 Time: Start 0855 am/pm
 Project No: 04020-023-401 Finish 0930 am/pm
 Site Location: Henderson, NV
 Weather Conds: warm, mild breeze ~75°F Collector(s): E Nelson, & Diemin

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 26.62 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Model Serial Number

<u>NSI</u>	<u>600x1/650 MDS</u>	
<u>Lamotte</u>	<u>2020 Turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0859	4.0	24.85	7.38	10879	6.08	80.0	8.65	350	26.62	yellow / clear
0900	4.35	24.52	7.32	10830	5.99	94.2	7.07	350	26.62	
0901	4.70	24.60	7.28	10797	5.96	106.2	6.03	350	26.63	
0903	5.40	24.55	7.24	10734	5.93	121.6	3.87	350	26.61	
0904	5.75	24.40	7.22	10697	5.93	135.4	3.87	350	26.62	
0905	6.10	24.45	7.20	10687	5.95	148.3	3.51	350	26.63	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 37 psi (N₂ tank)

3. SAMPLE COLLECTION: Method: pump #4

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M2A-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0930</u>
<u>M2A-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0930</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/9/07

Chain of Custody Record



Santa Ana, CA 92705
phone 714-258-8610 fax 714-258-0921

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact: <i>Bruce Ho</i>				Date: <i>5-9-07</i>				COC No: <i>050907-1</i>			
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: <i>Melania-Harris</i>				Carrier: <i>Fed Ex</i>				<i>1</i> of <i>2</i> COCs			
2 Technology Park Dr.		Analysis Turnaround Time															
Westford/MA/01886-3140		Calendar (C) or Work Days (W)				Filtered Sample Hexavalent Chromium (7199)				<i>Jerry Everett</i>				Job No. 04020-023-401 SDG No.			
(978) 589-3324 Phone		TAT if different from Below <i>21 days</i>															
(978) 589-3282 FAX		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day															
Project Name: Source Area Investigation																	
Site: Henderson, NV		Sample Date		Sample Time		Sample Type		Matrix		# of Cont.		Sample Specific Notes:					
P O #																	
		<i>5/9/07</i>		<i>1414</i>		<i>W</i>		<i>1</i>		<i>X</i>							
				<i>1417</i>		<i>W</i>		<i>1</i>		<i>XX</i>							
				<i>1419</i>		<i>W</i>		<i>1</i>		<i>X</i>							
				<i>1455</i>		<i>W</i>		<i>1</i>		<i>X</i>							
				<i>1500</i>		<i>W</i>		<i>1</i>		<i>XX</i>							
				<i>1503</i>		<i>W</i>		<i>1</i>		<i>X</i>							
				<i>1430</i>		<i>W</i>		<i>1</i>		<i>X</i>							
				<i>1435</i>		<i>W</i>		<i>1</i>		<i>XX</i>							
				<i>1437</i>		<i>W</i>		<i>1</i>		<i>X</i>							
				<i>1245</i>		<i>W</i>		<i>1</i>		<i>X</i>							
				<i>1305</i>		<i>W</i>		<i>1</i>		<i>XX</i>							
				<i>1445</i>		<i>W</i>		<i>1</i>		<i>X</i>							
				<i>1335</i>		<i>W</i>		<i>1</i>		<i>X</i>							

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:
 Coordinate sample reception with Melania-Harris (STL - St. Louis)
Jerry Everett

Short hold Time

Relinquished by: <i>ZOE DIERMIEK</i>	Company: <i>ENSR</i>	Date/Time: <i>1645 5/9/07</i>	Received by: <i>FedEx</i>	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Chain of Custody Record



Richland, WA 99354

phone 509-375-3131 fax 509-375-5590

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy			Site Contact: <i>Melania Harris</i>		Date: <i>5/19/07</i>		COC No.: <i>0509075</i>		
ENSR		Tel/Fax: (978) 589-3324			Lab Contact: <i>Melania Harris</i>		Carrier: <i>...</i>		1 of 2 COCs		
2 Technology Park Dr.		Analysis Turnaround Time			Filtered Sample Ra-226/Ra-228 Iso-U/Iso-Th				Job No. 04020-023-401		
Westford/MA/01886-3140		Calendar (C) or Work Days (W)									
(978) 589-3324 Phone		TAT if different from Below <i>2-1-1-1-1-1-1</i>									
(978) 589-3282 FAX		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day									
Project Name: Source Area Investigation											
Site: Henderson, NV									SDG No.		
P O #											
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.			Sample Specific Notes:		
<i>M100-L</i>		<i>5/19/07</i>	<i>0615</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>M100-F</i>			<i>0715</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>M100-Z</i>			<i>0730</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>M3A-L</i>			<i>0835</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>M3A-F</i>			<i>1130</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>M3A-Z</i>			<i>0910</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>M13-L</i>			<i>1035</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>M13-F</i>			<i>1130</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>M13-Z</i>			<i>1115</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>M76-L</i>			<i>1345</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>M76-F</i>			<i>1325</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>M76-Z</i>			<i>1325</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Possible Hazard Identification							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown							<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months				
Special Instructions/QC Requirements & Comments:											
Coordinate sample reception with Melania Harris (STL - St. Louis)											
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
<i>Joe Fowler</i>		<i>ENSR</i>		<i>5/19/07</i>		<i>Melania Harris</i>		<i>STL</i>		<i>5/19/07</i>	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	

Chain of Custody Record

Richland, WA 99354
phone 509-375-3131 fax 509-375-5590

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact:				Date:				COC No: 0907007		
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: Melania Harris				Carrier:				of COCs		
2 Technology Park Dr. Westford/MA/01886-3140		Analysis Turnaround Time				Filtered Sample Ra-226/Ra-228 Iso-U/Iso-Th										Job No. 04020-023-401
(978) 589-3324 Phone		Calendar (C) or Work Days (W)														
(978) 589-3282 FAX		TAT if different from Below:														
Project Name: Source Area Investigation		<input type="checkbox"/> 2 weeks														
Site: Henderson, NV		<input type="checkbox"/> 1 week														
P O #		<input type="checkbox"/> 2 days														
		<input type="checkbox"/> 1 day														
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.											Sample Specific Notes:

Possible Hazard Identification

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Coordinate sample reception with Melania Harris (STL - St. Louis)

Relinquished by: [Signature]	Company: [Signature]	Date/Time: 10/27 2:31/07	Received by: [Signature]	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

Chain of Custody Record

Earth City, MO 63045
phone 314-298-8566 fax 314-298-8757

Sewern Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact: <i>B. van Ho</i>				Date: <i>5-9-07</i>				COC No: <i>050407-5</i>			
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: <i>Melania Harris</i>				Carrier: <i>Fed Ex</i>				1 of <i>2</i> COCs			
2 Technology Park Dr.		Analysis Turnaround Time				Filtered Sample Metals, Total (6010B) Metals, Dissolved (6010B) VOCs (8260B/5035**) SVOCs (8279C) SVOCs (8270 SIM) PCBs (8082) TPH (8015M/5035**/3550) Perchlorate (314.0) OCPs (8081A) OCHs (8151) General Chemistry Fuel Alcohols (8015B)				Job No.							
Westford/MA/01886-3140		Calendar (C) or Work Days (W)								04020-023-401							
(978) 589-3324 Phone		TAT if different from Below <i>21 days</i>								SDG No.							
(978) 589-3282 FAX		<input type="checkbox"/> 2 weeks								Sample Specific Notes:							
Project Name: Source Area Investigation		<input type="checkbox"/> 1 week															
Site: Henderson, NV		<input type="checkbox"/> 2 days															
P O #		<input type="checkbox"/> 1 day															
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Metals, Total (6010B)	Metals, Dissolved (6010B)	VOCs (8260B/5035**)	SVOCs (8279C)	SVOCs (8270 SIM)	PCBs (8082)	TPH (8015M/5035**/3550)	Perchlorate (314.0)	OCPs (8081A)	OCHs (8151)	General Chemistry	Fuel Alcohols (8015B)
M100-L	<i>5/1/07</i>	<i>0645</i>		W	1	X											
M100-F		<i>0715</i>		W	1	X	X										
M100-Z		<i>0730</i>		W	1	X											
M2A-L		<i>0835</i>		W	1	X											
M2A-F		<i>0930</i>		W	1	X	X										
M2A-Z		<i>0910</i>		W	1	X											
M13-L		<i>1035</i>		W	1	X											
M13-F		<i>1130</i>		W	1	X	X										
M13-Z		<i>1115</i>		W	1	X											
M76-L		<i>1245</i>		W	1	X											
M76-F		<i>1305</i>		W	1	X	X										
M76-Z		<i>1415</i>		W	1	X											
		<i>1335</i>															
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Special Instructions/QC Requirements & Comments:																	
Coordinate sample reception with <i>Melania Harris (STL - St. Louis)</i> <i>Jerry Barrett</i>																	
Relinquished by:			Company:			Date/Time:			Received by:			Company:			Date/Time:		
<i>ZOE DIKMEYER</i>			<i>ENSR</i>			<i>16T 5/1/07</i>			<i>FedEx</i>								
Relinquished by:			Company:			Date/Time:			Received by:			Company:			Date/Time:		
Relinquished by:			Company:			Date/Time:			Received by:			Company:			Date/Time:		

Chain of Custody Record

Earth City, MO 63045
 phone 314-298-8566 fax 314-298-8757

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact: <i>Melania Harris</i>				Date: <i>5-9-07</i>				COC No: <i>050907-6</i>																		
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: <i>Melania Harris</i>				Carrier: <i>FEDEX</i>				2 of 2 COCs																		
2 Technology Park Dr.		Analysis Turnaround Time																														
Westford/MA/01886-3140		Calendar (C) or Work Days (W)				<table border="1"> <tr><td>Filtered Sample</td></tr> <tr><td>Metals, Total (6010B)</td></tr> <tr><td>Metals, Dissolved (6010B)</td></tr> <tr><td>VOCs (8260B/5035**)</td></tr> <tr><td>SVOCs (8270C)</td></tr> <tr><td>SVOCs (8270 SIM)</td></tr> <tr><td>PCBs (8082)</td></tr> <tr><td>TPH (8015M/5035** /3550)</td></tr> <tr><td>Perchlorate (314.0)</td></tr> <tr><td>OCFs (8081A)</td></tr> <tr><td>OCHs (8151)</td></tr> <tr><td>General Chemistry</td></tr> <tr><td>Fuel Alcohols (8015B)</td></tr> </table>										Filtered Sample	Metals, Total (6010B)	Metals, Dissolved (6010B)	VOCs (8260B/5035**)	SVOCs (8270C)	SVOCs (8270 SIM)	PCBs (8082)	TPH (8015M/5035** /3550)	Perchlorate (314.0)	OCFs (8081A)	OCHs (8151)	General Chemistry	Fuel Alcohols (8015B)	Job No. 04020-023-401			
Filtered Sample																																
Metals, Total (6010B)																																
Metals, Dissolved (6010B)																																
VOCs (8260B/5035**)																																
SVOCs (8270C)																																
SVOCs (8270 SIM)																																
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General Chemistry																																
Fuel Alcohols (8015B)																																
(978) 589-3324 Phone		TAT if different from Below <i>21 days</i>				SDG No.																										
(978) 589-3282 FAX		<input type="checkbox"/> 2 weeks				Sample Specific Notes:																										
Project Name: Source Area Investigation		<input type="checkbox"/> 1 week																														
Site: Henderson, NV		<input type="checkbox"/> 2 days																														
P O #		<input type="checkbox"/> 1 day																														
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Metals, Total (6010B)	Metals, Dissolved (6010B)	VOCs (8260B/5035**)	SVOCs (8270C)	SVOCs (8270 SIM)	PCBs (8082)	TPH (8015M/5035** /3550)	Perchlorate (314.0)	OCFs (8081A)	OCHs (8151)	General Chemistry	Fuel Alcohols (8015B)														
<i>M31A-E</i>	<i>4/10</i>	<i>1435</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																								
<i>M31A-Z</i>	<i>4/17</i>	<i>1415</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																								
<i>13030709-Z</i>	<i>4/10</i>	<i>1600</i>		<i>W</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																								
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																										
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																										
Special Instructions/QC Requirements & Comments:																																
Coordinate sample reception with Melania Harris.(STL - St. Louis) <i>Jerry Ewert</i>																																
Relinquished by:					Company:					Date/Time:					Received by:					Company:					Date/Time:							
<i>ZOE DIERMICK</i>					<i>ENSR</i>					<i>1645 5/9/07</i>					<i>FEDEX</i>																	
Relinquished by:					Company:					Date/Time:					Received by:					Company:					Date/Time:							
Relinquished by:					Company:					Date/Time:					Received by:					Company:					Date/Time:							



Well ID: M 48

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/10/07 Time: Start 0630 am/pm
 Project No: 04020-023-401 Finish 0655 am/pm
 Site Location: Henderson, NV
 Weather Conds: Warm, clear ~80°F Collector(s): B. Ho, Z Diermier, E Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 24.27' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>1/4" LaMotte</u>	<u>600x1/1650MDS</u>	<u>2020E Turbidimeter</u>

Volume

Time (24hr)	Remove Temp. (Liters)	Remove Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
<u>0622</u>	<u>1.0</u>	<u>23.09</u>	<u>7.69</u>	<u>2997</u>	<u>1.74</u>	<u>76.4</u>	<u>2.20</u>	<u>100</u>	<u>24.28</u>	<u>CLEAR/slightly yellow</u>
<u>0623</u>	<u>1.1</u>	<u>23.05</u>	<u>7.60</u>	<u>3004</u>	<u>1.33</u>	<u>81.2</u>	<u>2.20</u>	<u>100</u>	<u>24.26</u>	↓
<u>0626</u>	<u>1.4</u>	<u>23.05</u>	<u>7.54</u>	<u>2996</u>	<u>1.28</u>	<u>84.9</u>	<u>7.42</u>	<u>100</u>	<u>24.26</u>	↓
<u>0628</u>	<u>1.6</u>	<u>23.03</u>	<u>7.52</u>	<u>2989</u>	<u>1.33</u>	<u>86.2</u>	<u>3.33</u>	<u>100</u>	<u>24.27</u>	↓
<u>0629</u>	<u>1.7</u>	<u>23.05</u>	<u>7.49</u>	<u>2983</u>	<u>1.27</u>	<u>88.7</u>	<u>1.37</u>	<u>100</u>	<u>24.25</u>	↓
<u>0630</u>	<u>1.8</u>	<u>23.05</u>	<u>7.48</u>	<u>2980</u>	<u>1.32</u>	<u>89.9</u>	<u>0.00</u>	<u>100</u>	<u>24.23</u>	↓

d. Acceptance criteria pass/fail

Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 20 psi

3. SAMPLE COLLECTION: Method: pump #4

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M48-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0645</u>
<u>M48-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0645</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M48-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Handwritten Signature]

Date 5/10/07



Well ID: M48

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/10/07 Time: Start 0655 am/pm
 Project No: 04020-023-401 Finish 0730 am/pm
 Site Location: Henderson, NV
 Weather Conds: warm ~80°F Collector(s): B Ho, Z Diarmic, E Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 24.25' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Model Serial Number

<u>VSI</u>	<u>600x1/650mos</u>	
<u>LalMotte</u>	<u>2020e Turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0700	4.00	23.91	7.58	3024	1.35	92.4	0.5	350	24.29	CLEAR/slightly yellow
0701	4.35	23.98	7.53	3030	0.91	93.3	0.91	350	24.27	↓
0702	4.70	24.08	7.49	3036	0.74	95.4	3.49	350	24.28	↓
0703	5.05	24.08	7.47	3035	0.69	96.4	2.14	350	24.30	↓
0704	5.40	24.08	7.46	3036	0.63	97.1	4.97	350	24.28	↓
0705	5.75	24.09	7.46	3036	0.71	98.2	0.63	350	24.27	↓

d. Acceptance criteria pass/fail Yes No N/A
 Has required volume been removed
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 30 psi

3. SAMPLE COLLECTION: Method: pump #4

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M48-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0730</u>
<u>M48-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0730</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M48-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/10/07



Well ID: MSA

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/10/07 Time: Start 0755 am/pm
 Project No: 04020-023-401 Finish 0855 am/pm
 Site Location: Henderson, NV
 Weather Conds: Hot ~85°F Collector(s): ENelson & Diermir

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 4" PVC
 b. Water Table Depth 38.32 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Model Serial Number

YSI 600 XI / 650 MDS
La Motte 2000 turbidimeter

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0830	1.0	27.25	7.06	15721	1.57	-37.0	3.25	100	38.40	CLEAR
0832	1.2	27.93	6.98	15719	1.54	-43.7	3.25	100	38.38	↓
0833	1.3	27.89	6.96	15721	1.61	-44.8	0.34	100	38.40	↓
0834	1.4	27.87	6.96	15717	1.63	-47.5	5.07	100	38.40	↓
0835	1.5	27.84	6.95	15722	1.65	-48.3	2.54	100	38.39	↓
0836	1.6	27.33	6.75	15728	1.47	-48.6	4.11	100	38.40	↓

solvent odor ↓

d. Acceptance criteria pass/fail Yes No N/A (continued on back)

- Has required volume been removed Yes No N/A
- Has required turbidity been reached Yes No N/A
- Have parameters stabilized Yes No N/A

If no or N/A - Explain below.

e. Control box setting: 4 cpm 20 psi

3. SAMPLE COLLECTION: Method: pump #1

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>MSA-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0850</u>
<u>MSA-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0850</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>MSA-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/10/07



Well ID: MSA

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/10/07 Time: Start 0855 am/pm
 Project No: 04020-023-401 Finish 0930 am/pm
 Site Location: Henderson, NV
 Weather Conds: HOT ~86°F Collector(s): E Nelson, Z Diermir

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 4" PVC
 b. Water Table Depth 38.40 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used: Make Model Serial Number

<u>1/51</u>	<u>600 x 1 / 658 mds</u>	
<u>La Motte</u>	<u>2000e Turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0901	4.0	26.30	7.18	15375	1.30	-37.4	1.20	200	38.42	clear
0903	4.4	26.51	7.04	15388	0.91	-43.2	4.02	200	38.43	solvent odor ↓
0904	4.6	26.46	7.01	15391	0.88	-46.6	1.86	200	38.42	
0905	4.8	26.56	6.97	15401	0.84	-49.0	6.66	200	38.44	
0906	5.0	26.43	6.96	15414	0.79	-49.8	3.32	200	38.44	
0908	5.4	26.51	6.94	15417	0.75	-50.2	2.31	200	38.74	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 27 psi

3. SAMPLE COLLECTION: Method: pump #1

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>MSA-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0930</u>
<u>MSA-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0930</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/10/07



Well ID: M98

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/10/07 Time: Start 0945 am/pm
 Project No: 04020-023-401 Finish 100 am/pm
 Site Location: Henderson, NV
 Weather Conds: Hot 98°F Collector(s): E Nelson, Z Divina

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth _____ d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

DRY WELL

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>Ysi</u>	<u>600 x 1 / 650 mos</u>	
<u>LaMotte</u>	<u>2000c Turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

d. Acceptance criteria pass/fail

	Yes	No	N/A	(continued on back)
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

If no or N/A - Explain below.

e. Control box setting: 4 cpm _____ psi (10 tank)

3. SAMPLE COLLECTION: Method: pump #3

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M98-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	
<u>M98-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M98-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/10/07



Well ID: M98

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/10/07 Time: Start _____ am/pm
 Project No: 04020-023-401 Finish _____ am/pm
 Site Location: Henderson, NV
 Weather Conds: _____ Collector(s): E Nelson, Z Diemer

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth _____ d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: DRY WELL

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>YSC</u>	<u>60071/650 MDS</u>	
<u>La Motte</u>	<u>2020e Turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

e. Control box setting: 4 cpm _____ psi

3. SAMPLE COLLECTION: Method: pump #3

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M98-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	
<u>M98-P</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M98-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/10/07



Well ID: M39

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5-10-07 Time: Start 1020 am/pm
 Project No: 04020-023-401 Finish 1200 am/pm
 Site Location: Henderson, NV
 Weather Conds: HOT ~ 92°F Collector(s): E Nelson, Z Diem

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 31.77 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>VSI</u>	<u>600 XI/650 MDS</u>	
<u>LaMotte</u>	<u>2020c Turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1047	1.0	28.42	7.32	7970	1.67	58.6	52.3	100	31.77	green / slightly cloud
1048	1.1	28.43	7.28	7982	1.63	70.3	71.8	100	31.78	
1050	1.3	28.38	7.22	7960	1.66	97.0	62.0	100	31.80	
1051	1.4	28.35	7.21	7961	1.68	111.3	48.3	100	31.77	clear
1052	1.5	28.33	7.18	7953	1.65	125.7	45.4	100	31.77	
1054	1.7	28.16	7.18	7936	1.59	143.0	40.8	100	31.78	

d. Acceptance criteria pass/fail

Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(continued on back)

If no or N/A - Explain below.

e. Control box setting: 4 cpm 22 psi (tank)

3. SAMPLE COLLECTION: Method: _____

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M39-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1200</u>
<u>m39-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>1200</u>
<u>M39-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	<u>1200</u>
<u>M39-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	<u>1200</u>

(continued on back)

Signature [Handwritten Signature]

Date 5/10/07



Well ID: M39

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/10/07 Time: Start 1200 am/pm
 Project No: 04020-023-401 Finish 1240 am/pm
 Site Location: Henderson, NV
 Weather Conds: Hot, breezy ~950F Collector(s): E Nelson, Z Diemie

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 31.78 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used:

Make	Model	Serial Number
<u>YSI</u>	<u>600 XL / 650 mds</u>	
<u>La Motte</u>	<u>2020e Turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
<u>1201</u>	<u>9.0</u>	<u>27.29</u>	<u>7.48</u>	<u>7804</u>	<u>0.92</u>	<u>63.1</u>	<u>4.08</u>	<u>325</u>	<u>31.60</u>	
<u>1202</u>	<u>9.325</u>	<u>26.73</u>	<u>7.32</u>	<u>7642</u>	<u>0.80</u>	<u>100.2</u>	<u>0.88</u>	<u>325</u>	<u>31.85</u>	
<u>1203</u>	<u>9.650</u>	<u>26.74</u>	<u>7.22</u>	<u>7624</u>	<u>0.84</u>	<u>127.5</u>	<u>0.34</u>	<u>325</u>	<u>31.79</u>	
<u>1204</u>	<u>9.975</u>	<u>26.72</u>	<u>7.17</u>	<u>7619</u>	<u>0.83</u>	<u>150.9</u>	<u>0.25</u>	<u>325</u>	<u>31.79</u>	
<u>1205</u>	<u>10.3</u>	<u>26.43</u>	<u>7.10</u>	<u>7582</u>	<u>0.71</u>	<u>188.7</u>	<u>1.95</u>	<u>325</u>	<u>31.82</u>	
<u>1206</u>	<u>10.185</u>	<u>26.47</u>	<u>7.09</u>	<u>7584</u>	<u>0.68</u>	<u>200.9</u>	<u>3.16</u>	<u>325</u>	<u>31.81</u>	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

e. Control box setting: 4 cpm 35 psi (tank)

3. SAMPLE COLLECTION: Method: pump #3

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M39-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1230</u>
<u>M39-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>1230</u>
<u>M39-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	<u>1230</u>
<u>M39-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	<u>1230</u>

(continued on back)

Signature [Signature] Date 5/10/07



Well ID: M95

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/10/07 Time: Start 1325 am/pm
 Project No: 04020-023-401 Finish 1450 am/pm
 Site Location: Henderson, NV
 Weather Conds: HOT ~104°F Collector(s): Z. Dremier, E. Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 10.10 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used: Make Vsi Model 600x1/650mas Serial Number _____
LaMotte 2000e turbidimeter

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1352	1.0	30.54	7.50	8746	1.10	35.4	—	100	10.07	CLEAR
1356	1.4	29.40	7.37	8623	0.80	157.0	25.3	100	10.05	
1358	1.6	29.32	7.35	8593	0.77	197.6	26.7	100	10.06	
1400	1.8	29.29	7.30	8615	0.73	217.5	24.4	100	10.06	
1401	1.9	29.03	7.29	8586	0.78	238.1	31.2	100	10.06	
1402	2.0	29.55	7.27	8577	0.82	253.3	26.5	100	10.06	
1403	2.1	29.50	7.25	8579	0.88	265.8	23.2	100	10.06	

d. Acceptance criteria pass/fail Yes No N/A (continued on back)
 Has required volume been removed
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

e. Control box setting: 4 cpm 12 psi

3. SAMPLE COLLECTION: Method: pump #2

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M95-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	
<u>M95-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	
<u>M95-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M95-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/10/07



Well ID: M95

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/10/07 Time: Start 1450 am/pm
 Project No: 04020-023-401 Finish 1545 am/pm
 Site Location: Henderson, NV
 Weather Conds: _____ Collector(s): B. H. Z. Diermiller

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 10.06 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

	Make	Model	Serial Number
	<u>YSI</u>	<u>600X/650MOS</u>	
	<u>La Motte</u>	<u>20202Turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1458	10.0	25.22	8.03	852 8028	0.73	53.3	5.52	360	10.07	
1500	10.72	24.96	7.42	7875	0.57	139.7	5.59	360	10.07	
1502	11.44	24.95	7.29	7854	0.47	208.1	2.82	360	10.07	
1504	12.16	25.17	7.19	7867	0.51	243.2	2.72	360	10.07	
1505	12.52	24.59	7.16	7807	0.44	260.5	2.58	360	10.07	
1506	12.88	24.69	7.12	7787	0.42	276.1	2.29	360	10.07	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

e. Control box setting: 4 cpm 23 psi

3. SAMPLE COLLECTION: Method: pump #2

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M95-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1530</u>
<u>M95-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>1530</u>
<u>M95-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	<u>1530</u>
<u>M95-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	<u>1530</u>

(continued on back)

Signature [Signature] Date 5/10/07

STL St. Louis
13715 Rider Trail North



Chain of Custody Record

Earth City, MO 63045
phone 314-298-8566 fax 314-298-8757

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy		Site Contact: <i>Brian Ho</i>		Date: <i>5-10-07</i>		COC No: <i>051067-2</i>											
ENSR		Tel/Fax: (978) 589-3324		Lab Contact: <i>Melania Harris</i>		Carrier: <i>Fed Ex</i>		2 of 2 COCs											
2 Technology Park Dr.		Analysis Turnaround Time		Filtered Sample Metals, Total (6010B) Metals, Dissolved (6010B) VOCs (8260B/5035**) SVOCs (8270C) SVOCs (8270 SIM) PCBs (8082) TPH (8015M/5035**/3550) Perchlorate (314.0) OCPs (8081A) OCHs (8151) General Chemistry Fuel Alcohols (8015B)		<i>Jan 16 10:11 AM</i>		Job No.											
Westford/MA/01886-3140		Calendar (C) or Work Days (W)						04020-023-401											
(978) 589-3324 Phone		TAT if different from Below <i>21 Days</i>						SDG No.											
(978) 589-3282 FAX		<input type="checkbox"/> 2 weeks						Sample Specific Notes:											
Project Name: Source Area Investigation		<input type="checkbox"/> 1 week																	
Site: Henderson, NV		<input type="checkbox"/> 2 days																	
P O #		<input type="checkbox"/> 1 day																	
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Metals, Total (6010B)	Metals, Dissolved (6010B)	VOCs (8260B/5035**)	SVOCs (8270C)	SVOCs (8270 SIM)	PCBs (8082)	TPH (8015M/5035**/3550)	Perchlorate (314.0)	OCPs (8081A)	OCHs (8151)	General Chemistry	Fuel Alcohols (8015B)	
<i>M95-L</i>	<i>5/10/07</i>	<i>1445</i>		<i>W</i>	<i>1</i>		X												
<i>M95-LD</i>							X												
<i>M95-F</i>		<i>1530</i>					X	X											
<i>M95-FD</i>							X	X											
<i>M95-E</i>		<i>1545</i>					X												
<i>M95-EU</i>							X												
<i>EB051007-E</i>		<i>1600</i>					X												
<i>EB051037-F</i>		<i>1615</i>					X	X											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Special Instructions/QC Requirements & Comments:																			
Coordinate sample reception with <i>Melania Harris (STL - St. Louis)</i> <i>Joey Everett</i>																			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:														
<i>Zoe Wilk</i>	<i>ENSR</i>	<i>5/10/07 16:20</i>																	
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:														
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:														

Chain of Custody Record

Earth City, MO 63045
phone 314-298-8566 fax 314-298-8757

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact: <u>Dr. Ho</u>				Date: <u>5-10-07</u>				COC No: <u>051007-1</u>	
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: <u>Melania Harris</u>				Carrier: <u>FEDEX</u>				1 of 2 COCs	
2 Technology Park Dr.		Analysis Turnaround Time Calendar (C) or Work Days (W) TAT if different from Below <u>21 DAYS</u> <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day				Filtered Sample Metals, Total (6010B) Metals, Dissolved (6010B) VOCs (8260B/5035**) SVOCs (8270C) SVOCs (8270 SIM) PCBs (8082) TPH (8015M/5035** /3550) Perchlorate (314.0) OCPs (8081A) OCHs (8151) General Chemistry Fuel Alcohols (8015B)				Job No. 04020-023-401 SDG No.					
Westford/MA/01886-3140															
(978) 589-3324 Phone															
(978) 589-3282 FAX															
Project Name: Source Area Investigation															
Site: Henderson, NV		Sample Date		Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:							
P O #		M48-L		0645	W	1	1								
		M48-F		0730	W	1	1								
		M48-Z		0745	W	1	1								
		MCA-L		0850	W	1	1								
		MCA-F		0930	W	1	1								
		MCA-Z		0940	W	1	1								
		M29-L		1200	W	1	1								
		M29-LD			W	1	1								
		M29-F		1230	W	1	1								
		M29-LD			W	1	1								
		M29-Z		1240	W	1	1								
		M29-LD			W	1	1								
Possible Hazard Identification				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Special Instructions/QC Requirements & Comments:															
Coordinate sample reception with Melania Harris (STL - St. Louis) <u>Dr. Ho</u>															
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:					
<u>ZOE</u>		<u>ENSR</u>		<u>5/10/07 16:20</u>											
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:					
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:					

Chain of Custody Record

Santa Ana, CA 92705

phone 714-258-8610 fax 714-258-0921

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact: <i>Brian Ho</i>		Date: <i>5-10-07</i>		COC No: <i>051007-3</i>	
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: <i>Melania Harris</i>		Carrier: <i>FEDEX</i>		1 of 2 COCs	
2 Technology Park Dr.		Analysis Turnaround Time				Filtered Sample Hexavalent Chromium (7199)		<i>Jan 11 11:44 AM</i>		Job No.	
Westford/MA/01886-3140		Calendar (C) or Work Days (W)								04020-023-401	
(978) 589-3324 Phone		TAT if different from Below <i>21 Days</i>								SDG No.	
(978) 589-3282 FAX		<input type="checkbox"/> 2 weeks									
Project Name: Source Area Investigation		<input type="checkbox"/> 1 week									
Site: Henderson, NV		<input type="checkbox"/> 2 days				Sample Specific Notes:					
P O #		<input type="checkbox"/> 1 day									
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.						
<i>M48-L</i>	<i>5/10/07</i>	<i>1405</i>		<i>W</i>	<i>1</i>	<i>X</i>					
<i>M48-F</i>		<i>1407</i>		<i>W</i>	<i>1</i>	<i>XX</i>					
<i>M48-Z</i>		<i>1409</i>		<i>W</i>	<i>1</i>	<i>X</i>					
<i>M5A-L</i>		<i>1450</i>		<i>W</i>	<i>1</i>	<i>X</i>					
<i>M5A-F</i>		<i>1455</i>		<i>W</i>	<i>1</i>	<i>XX</i>					
<i>M5A-Z</i>		<i>1457</i>		<i>W</i>	<i>1</i>	<i>XX</i>					
<i>M139-L</i>		<i>1200</i>		<i>W</i>	<i>1</i>	<i>X</i>					
<i>M139-LD</i>		<i>—</i>		<i>W</i>	<i>1</i>	<i>XX</i>					
<i>M139-F</i>		<i>1230</i>		<i>W</i>	<i>1</i>	<i>XX</i>					
<i>M139-FD</i>		<i>—</i>		<i>W</i>	<i>1</i>	<i>XX</i>					
<i>M139-Z</i>		<i>1240</i>		<i>W</i>	<i>1</i>	<i>X</i>					
<i>M139-ZD</i>		<i>—</i>		<i>W</i>	<i>1</i>	<i>X</i>					
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months					
Special Instructions/QC Requirements & Comments:											
Coordinate sample reception with Melania Harris.(STL - St. Louis) <i>Jan 11 11:44 AM</i> <i>Short Hold Time !!</i>											
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
<i>ZOE VIERMIER</i>		<i>ENSR</i>		<i>5/10/07 16:25</i>							
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:	

Chain of Custody Record

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact: [Signature]				Date: 5/11/16				COC No: 251007-4					
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: Melania Harris				Carrier: [Signature]				of [] COC's					
2 Technology Park Dr.		Analysis Turnaround Time				Filtered Sample Hexavalent Chromium (7199)				[Grid for sample analysis]				Job No.					
Westford/MA/01886-3140		Calendar (C) or Work Days (W)												04020-023-401					
(978) 589-3324 Phone		TAT if different from Below: 1 day												SDG No.					
(978) 589-3282 FAX		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day												Sample Specific Notes:					
Project Name: Source Area Investigation																			
Site: Henderson, NV																			
P O #																			
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.														
1500001 F	5/11/16	14:00		W															
1500007 F	5/11/16	14:05		W															
		14:15		W															
		15:30		W															
		15:45		W															
				W															
				W															
				W															
				W															
				W															
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)													
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months													
Special Instructions/QC Requirements & Comments:																			
Coordinate sample reception with Melania Harris (STL - St. Louis)																			
[Handwritten notes: 3/11/16, 5/11/16, 5/11/16 16:25, 5/11/16 16:25]																			
Relinquished by:			Company:			Date/Time:			Received by:			Company:			Date/Time:				
[Signature]			[Signature]			5/11/16 16:25			[Signature]			[Signature]			[Signature]				
Relinquished by:			Company:			Date/Time:			Received by:			Company:			Date/Time:				
Relinquished by:			Company:			Date/Time:			Received by:			Company:			Date/Time:				

Chain of Custody Record



Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy				Site Contact: _____				Date: _____				COC No: 051007-5																				
ENSR		Tel/Fax: (978) 589-3324				Lab Contact: Melania Harris				Carrier: _____				_____ of 2 COCs																				
2 Technology Park Dr.		Analysis Turnaround Time														Job No. 04020-023-401																		
Westford/MA/01886-3140																																		
(978) 589-3324 Phone		Calendar (C) or Work Days (W) _____				<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Filtered Sample</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Ra-226/Ra-228</td> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">Iso-U/Iso-Th</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>				Filtered Sample	Ra-226/Ra-228	Iso-U/Iso-Th																			SDG No.			
Filtered Sample	Ra-226/Ra-228	Iso-U/Iso-Th																																
(978) 589-3282 FAX		TAT if different from Below _____																																
Project Name: Source Area Investigation		<input type="checkbox"/> 2 weeks																																
Site: Henderson, NV		<input type="checkbox"/> 1 week																																
P O # _____		<input type="checkbox"/> 2 days				<input type="checkbox"/> 1 day				Sample Specific Notes:																								
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Ra-226/Ra-228	Iso-U/Iso-Th																									
M48-L		5/10/20	1400	W		1																												
M48-F		5/10/20	1400	W		1																												
M48-Z		5/10/20	1400	W		1																												
M5A-L		5/10/20	1400	W		1																												
M5A-F		5/10/20	1400	W		1																												
M5A-Z		5/10/20	1400	W		1																												
M5B-L		5/10/20	1400	W		2																												
M5B-F		5/10/20	1400	W		2																												
M5B-Z		5/10/20	1400	W		2																												
M5C-L		5/10/20	1400	W		2																												
M5C-F		5/10/20	1400	W		2																												
M5C-Z		5/10/20	1400	W		2																												
M5D-L		5/10/20	1400	W		2																												
M5D-F		5/10/20	1400	W		2																												
M5D-Z		5/10/20	1400	W		2																												
M5E-L		5/10/20	1400	W		2																												
M5E-F		5/10/20	1400	W		2																												
M5E-Z		5/10/20	1400	W		2																												
M5F-L		5/10/20	1400	W		2																												
M5F-F		5/10/20	1400	W		2																												
M5F-Z		5/10/20	1400	W		2																												
M5G-L		5/10/20	1400	W		2																												
M5G-F		5/10/20	1400	W		2																												
M5G-Z		5/10/20	1400	W		2																												
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)																																
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown		<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months																																
Special Instructions/QC Requirements & Comments:																																		
Coordinate sample reception with Melania Harris (STL - St. Louis)																																		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Relinquished by:		Company:		Date/Time:		Received by:		Company:														
Joe Williams		STL		5/10/20																														
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Relinquished by:		Company:		Date/Time:		Received by:		Company:														
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Relinquished by:		Company:		Date/Time:		Received by:		Company:														



Well ID: M11

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5-11-07 Time: Start 0535 am/pm
 Project No: 04020-023-401 Finish 0715 am/pm
 Site Location: Henderson, NV
 Weather Conds: warm ~ 71°F Collector(s): E Nelson, Z Diemer

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 6" Steel
 b. Water Table Depth 43.60 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>YSI</u>	<u>600x1/6SDMOS</u>	
<u>La Motte</u>	<u>2020e Turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
<u>0627</u>	<u>24.47</u>	<u>24.50</u>	<u>7.96</u>					<u>150</u>	<u>43.65</u>	
<u>0628</u>	<u>1.0</u>	<u>24.57</u>	<u>7.94</u>	<u>3911</u>	<u>5.92</u>	<u>72.3</u>	<u>36.2</u>	<u>150</u>	<u>43.65</u>	<u>CLEAR</u>
<u>0629</u>	<u>1.15</u>	<u>24.48</u>	<u>7.90</u>	<u>3924</u>	<u>5.82</u>	<u>75.2</u>	<u>38.0</u>	<u>150</u>	<u>43.66</u>	
<u>0630</u>	<u>1.3</u>	<u>24.50</u>	<u>7.89</u>	<u>3927</u>	<u>5.81</u>	<u>78.1</u>	<u>41.8</u>	<u>150</u>	<u>43.65</u>	
<u>0632</u>	<u>1.10</u>	<u>24.67</u>	<u>7.87</u>	<u>3936</u>	<u>5.75</u>	<u>82.8</u>	<u>31.9</u>	<u>150</u>	<u>43.65</u>	
<u>0634</u>	<u>1.9</u>	<u>24.69</u>	<u>7.85</u>	<u>3942</u>	<u>5.73</u>	<u>85.1</u>	<u>36.8</u>	<u>150</u>	<u>43.65</u>	
<u>0635</u>	<u>2.05</u>	<u>24.71</u>	<u>7.84</u>	<u>3947</u>	<u>5.72</u>	<u>86.7</u>	<u>38.1</u>	<u>150</u>	<u>43.65</u>	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

(continued on back)

e. Control box setting: 4 cpm 30 psi (tank)

3. SAMPLE COLLECTION: Method: pump #1

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M11-F/2</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0700/0655</u>
<u>M11-F/2</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0700/0655</u>
<u>M11-F/2</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M11-F/2</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/11/07



Well ID: M89

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/11/07 Time: Start 0720 am/pm
 Project No: 04020-023-401 Finish 0820 am/pm
 Site Location: Henderson, NV
 Weather Conds: warm, ~BOF Collector(s): Z. Diemer, E. Nelson

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 34.26 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>YSI</u>	<u>600 X 1/650 MOS</u>	
<u>LaMotte</u>	<u>2020 Turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0750	1.0	25.43	7.10	12189	1.56	155.6	5.7	100	34.24	yellow/green
0752	1.2	25.26	7.07	12218	1.55	168.4	5.99	100	34.24	
0754	1.4	25.25	7.03	12203	1.39	182.4	3.16	100	34.25	
0756	1.6	25.32	7.02	12217	1.39	191.6	6.09	100	34.24	
0758	1.8	25.36	7.00	12223	1.42	203.3	2.25	100	34.24	
0800	2.0	25.37	7.00	12227	1.44	207.1	1.96	100	34.24	
0801	2.1	25.20	6.98	12219	1.38	218.1	2.90	100	34.25	

d. Acceptance criteria pass/fail

- | | | | |
|-------------------------------------|--------------------------|--------------------------|--------------------------|
| Has required volume been removed | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Has required turbidity been reached | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Have parameters stabilized | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

(continued on back)

If no or N/A - Explain below.

e. Control box setting: 4 cpm 22 psi (tank)

3. SAMPLE COLLECTION: Method: pump #2

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M89-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0830</u>
<u>M89-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0830</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M89-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature _____

Date _____

5/11/07



Well ID: M89

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/11/07 Time: Start 0820 am/pm
 Project No: 04020-023-401 Finish 0910 am/pm
 Site Location: Henderson, NV
 Weather Conds: HOT ~80°F Collector(s): E. Nelson, B. Ho, Z. Diem

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 34.25 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used: Make YSI Model 600x1/650 MDS Serial Number _____
LaMotte 2020E Turbidimeter

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
0829	4.0	25.67	7.14	12287	0.88	118.0	1.81	225	34.25	yellow/green / clear
0830	4.225	25.36	7.08	12281	0.82	133.1	3.41	225	34.25	
0832	4.675	25.15	7.02	12230	0.79	148.2	0.0	225	34.25	
0833	4.900	25.16	7.00	12200	0.76	162.4	3.17	225	34.25	
0835	5.35	25.09	6.99	12195	0.70	186.0	0.69	225	34.24	
0836	5.575	25.09	6.97	12187	0.61	197.1	0.87	225	34.25	
0838	6.025	25.12	6.96	12187	0.61	210.7	0.0	225	34.25	

d. Acceptance criteria pass/fail Yes No N/A (continued on back)
 Has required volume been removed
 Has required turbidity been reached
 Have parameters stabilized
 If no or N/A - Explain below.

e. Control box setting: 4 cpm 27 psi (tank)

3. SAMPLE COLLECTION:

Method: pump #2

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M89-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>0900</u>
<u>M89-F</u>	<u>1-L poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>0900</u>
<u>M89-F</u>	<u>1-L poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M89-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/11/07



Well ID: M97

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5-10-07 Time: Start 0920 am/pm
 Project No: 04020-023-401 Finish 1040 am/pm
 Site Location: Henderson, NV
 Weather Conds: HOT ~ 85°F Collector(s): E Nelson, Z Diemie

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 40.51 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>1/51</u> <u>Ld Motte</u>	<u>600x1/650 mos</u> <u>2020e Turbidimeter</u>	

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1002	1.0	27.57	7.20	4854	5.39	253.3	10.73	100	40.55	CLEAR
1004	1.2	27.33	7.25	4584	5.34	208.4	15.4	100	40.57	
1005	1.3	27.34	7.20	4803	5.35	228.9	7.31	100	40.58	
1006	1.4	27.35	7.19	4806	5.37	241.3	7.50	100	40.56	
1007	1.5	27.10	7.18	4807	5.33	251.0	10.50	100	40.57	
1008	1.6	26.95	7.17	4801	5.36	256.4	7.78	100	40.57	
1009	1.7	27.12	7.15	4796	5.23	268.7	6.51	100	40.56	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(continued on back)

If no or N/A - Explain below.

e. Control box setting: 4 cpm 25 psi (tank)

3. SAMPLE COLLECTION: Method: pump #3

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M97-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1040</u>
<u>M97-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>1040</u>
<u>M97-L</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M97-L</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature]

Date 5/11/07



Well ID: M97

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/11/07 Time: Start 1040 am/pm
 Project No: 04020-023-401 Finish 1115 am/pm
 Site Location: Henderson, NV
 Weather Conds: HOT ~85°F Collector(s): E Nelson, Z Diem

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 40.56 d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____

b. Acceptance Criteria defined (see workplan)

- Temperature 5% -D.O. 10%
- pH ± 1.0 unit - ORP ± 10mV
- Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)

c. Field Testing Equipment used:

Make	Model	Serial Number
<u>VSI LaMotte</u>	<u>600 x 1/650 MDS</u>	<u>22202 Turbidimeter</u>

Time (24hr)	Volume Remove (Liters)	Temp. (°C)	pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
1033	4.0	22.02	7.27	4653	5.11	203.7	3.02	375	40.67	
1034		21.09	7.13	4634	5.00	238.8	2.46	375	40.69	
1035		21.96	7.12	4640	4.97	271.3	4.68	375	40.108	
1037		24.84	7.08	4633	4.89	290.5	3.17	375	40.67	
1039		24.87	7.05	4632	4.87	308.2	3.05	375	40.69	
1040		24.99	7.02	4633	4.86	377.8	2.89	375	40.68	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

e. Control box setting: 4 cpm 37 psi (tank)

3. SAMPLE COLLECTION:

Method: pump #3

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M97-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1100</u>
<u>M97-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>1100</u>
	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M97-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	

(continued on back)

Signature [Signature] Date 5/11/07



Well ID: M12A

Low Flow Ground Water Sample Collection Record

Client: Tronox Date: 5/11/07 Time: Start 1235 am/pm
 Project No: 04020-023-401 Finish 1305 am/pm
 Site Location: Henderson, NV
 Weather Conds: HOT ~104°F Collector(s): E Nelson Z Diemer

1. WATER LEVEL DATA: (measured from Top of Casing)

a. Total Well Length _____ c. Length of Water Column _____ (a-b) Casing Diameter/Material 2" PVC
 b. Water Table Depth 41.54' d. Calculated System Volume (see back) _____

2. WELL PURGE DATA

a. Purge Method: _____
 b. Acceptance Criteria defined (see workplan)
 - Temperature 5% -D.O. 10%
 - pH ± 1.0 unit - ORP ± 10mV
 - Sp. Cond. 5% - Drawdown < 0.3' (3.6-inches)
 c. Field Testing Equipment used:

Make	Model	Serial Number
<u>1/2" La Motte</u>	<u>600 x 1/650 mds Turbidimeter</u>	

Time (24hr)	Volume		pH	Spec. Cond. (µS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Flow Rate (ml/min)	Drawdown (ft)	Color/Odor
	Remove (Liters)	Temp. (°C)								
1240	3.0	26.15	7.60	8845	3.68	232.4	6.35	210	41.54	yellow
1241	3.21	26.20	7.55	8860	3.66	247.3	9.95	210	41.54	
1242	3.42	26.08	7.52	8871	3.61	261.4	9.48	210	41.54	
1243	3.63	26.34	7.49	8887	3.59	271.1	10.39	210	41.54	
1244	3.84	26.66	7.46	8873	3.61	287.6	7.29	210	41.54	
1245	4.05	26.71	7.43	8842	3.61	303.1	7.16	210	41.54	

d. Acceptance criteria pass/fail

	Yes	No	N/A
Has required volume been removed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Has required turbidity been reached	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Have parameters stabilized	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If no or N/A - Explain below.

e. Control box setting: 4 cpm 35 psi (tank)

3. SAMPLE COLLECTION:

Method: pump #4

Sample ID	Container Type	No. of Containers	Preservation	Analysis Req.	Time
<u>M12A-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>HNO₃</u>	<u>Metals</u>	<u>1300</u>
<u>M12A-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads Ra-226 & Ra-228</u>	<u>1300</u>
<u>M12A-F</u>	<u>1-L poly</u>	<u>2</u>	<u>HNO₃</u>	<u>Rads U & Th</u>	
<u>M12A-F</u>	<u>500-mL poly</u>	<u>1</u>	<u>None</u>	<u>Cr₆</u>	<u>1300</u>

Signature: [Signature] Date: 5/11/07

(continued on back)

STL St. Louis
13715 Rider Trail North



Chain of Custody Record

Earth City, MO 63045
phone 314-298-8566 fax 314-298-8757

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy			Site Contact: Brian Ho		Date: 5-11-07		COC No: 051107-2									
ENSR		Tel/Fax: (978) 589-3324			Lab Contact: Melania Harris		Carrier: FedEx		1 of 1 COCs									
2 Technology Park Dr.		Analysis Turnaround Time			Filtered Sample Metals, Total (6010B) Metals, Dissolved (6010B) VOCs (8260B/5035***) SVOCs (8270C) SVOCs (8270 SIM) PCBs (8082) TPH (8015M/5035***) Perchlorate (314.0) OCPs (8081A) OCHs (8151) General Chemistry Fuel Alcohols (8015B)		Calendar (C) or Work Days (W)		Job No.									
Westford/MA/01886-3140		TAT if different from Below <u>21 DAYS</u>					04020-023-401											
(978) 589-3324 Phone		<input type="checkbox"/> 2 weeks					SDG No.											
(978) 589-3282 FAX		<input type="checkbox"/> 1 week					Sample Specific Notes:											
Project Name: Source Area Investigation		<input type="checkbox"/> 2 days																
Site: Henderson, NV		<input type="checkbox"/> 1 day																
P O #																		
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	Metals, Total (6010B)	Metals, Dissolved (6010B)	VOCs (8260B/5035***)	SVOCs (8270C)	SVOCs (8270 SIM)	PCBs (8082)	TPH (8015M/5035***)	Perchlorate (314.0)	OCPs (8081A)	OCHs (8151)	General Chemistry	Fuel Alcohols (8015B)
M11-F	5/11/07	0700		W	1	X	X											
M11-Z		0655		W	1		X											
M89-L		0830		W	1		X											
M89-F		0900		W	1		X	X										
M89-Z		0850		W	1		X											
M97-L		1040		W	1		X											
M97-F		1100		W	1		X	X										
M97-Z		1115		W	1		X											
M12A-L		1235		W	1		X											
M12A-F		1300		W	1		X	X										
M12A-Z		1250		W	1		X											
F 051107-Z		1435		W	1		X											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)												
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown						<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Special Instructions/QC Requirements & Comments:																		
Coordinate sample reception with Melania Harris (STL - St. Louis)																		
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:								
ZOE DEBEMER		ENSR		5/11/07 16:15														
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:								
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:								

Chain of Custody Record

Santa Ana, CA 92705
phone 714-258-8610 fax 714-258-0921

Severn Trent Laboratories, Inc.

Client Contact		Project Manager: Robert Kennedy			Site Contact: <u>Brian Ho</u>			Date: <u>5-11-07</u>			COC No: <u>051107-3</u>		
ENSR		Tel/Fax: (978) 589-3324			Lab Contact: <u>Melania Harris</u>			Carrier: <u>Fed Ex</u>			1 of 1 COCs		
2 Technology Park Dr.		Analysis Turnaround Time			Filtered Sample Hexavalent Chromium (7199)			Job No. 04020-023-401			SDG No.		
Westford/MA/01886-3140		Calendar (C) or Work Days (W)											
(978) 589-3324 Phone		TAT if different from Below <u>21 DAYS</u>											
(978) 589-3282 FAX		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day											
Project Name: Source Area Investigation													
Site: Henderson, NV													
P O #													
Sample Identification		Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Sample Specific Notes:						
<u>M111-F</u>		<u>5/11/07</u>	<u>1325</u>		<u>W</u>	<u>1</u>							
<u>M111-Z</u>			<u>1320</u>		<u>W</u>	<u>1</u>							
<u>M89-L</u>			<u>1335</u>		<u>W</u>	<u>1</u>							
<u>M89-F</u>			<u>1340</u>		<u>W</u>	<u>1</u>							
<u>M89-Z</u>			<u>1345</u>		<u>W</u>	<u>1</u>							
<u>M97-L</u>			<u>1410</u>		<u>W</u>	<u>1</u>							
<u>M97-F</u>			<u>1415</u>		<u>W</u>	<u>1</u>							
<u>M97-Z</u>			<u>1420</u>		<u>W</u>	<u>1</u>							
<u>M12A-L</u>			<u>1235</u>		<u>W</u>	<u>1</u>							
<u>M12A-F</u>			<u>1300</u>		<u>W</u>	<u>1</u>							
<u>M12A-Z</u>			<u>1250</u>		<u>W</u>	<u>1</u>							
<u>LR051107-Z</u>			<u>1435</u>		<u>W</u>	<u>1</u>							
Possible Hazard Identification							Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)						
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown							<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months						
Special Instructions/QC Requirements & Comments:													
Coordinate sample reception with <u>Melania Harris</u> (STL - St. Louis)													
<u>Melania Harris</u>													
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:			
<u>ZOE DIERMIER</u>		<u>ENSR</u>		<u>5/11/07 16:15</u>									
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:			
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:			