

44h Dkr of 94218

# TRONOX

Fredrick R. Stater  
Plant Manager

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rick.stater@tronox.com

January 19, 2009

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JAN 28 2009

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UIC Compliance Coordinator  
Nevada Division of Environmental Protection  
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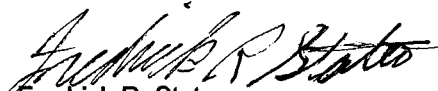
Subject: UIC Permit # UNEV94218 Permit – Fourth Quarter 2008

Tronox LLC, Tronox, maintains Underground Injection Control (UIC) Permit #UNEV94218 for groundwater remediation at its Henderson, Nevada, facility. Pursuant to Section I.A.4 (Attachment A), samples of the Lake Mead water added to the recharge trenches were collected and analyzed for the fourth quarter of 2008. Please see Attachment 1 for the Permit's checklist, as well as an analytical summary of the injected water. The electronic analytical reports are included in Attachment 3.

Section I.A.4 (Attachment A) requires quarterly groundwater monitoring, collection of water levels and provision of a potentiometric surface map. This information is provided in Attachment 2 with the supporting analytical reports provided in Attachment 3. Section I.A.4 (Attachment A) also requires monitoring of the injection and the extraction monthly rate averages. This information is included in Attachment 2 as well. Section I.A.4 (Attachment A) requires transmittal of a water level map and this is included as Attachment 4. This map was developed based upon November 2008 water level information.

Please feel free to contact Susan Crowley at (702) 651-2234 office, (702) 592-7727 cell or [susan.crowley@tronox.com](mailto:susan.crowley@tronox.com) if you have any questions regarding this information. Thank you.

Sincerely,

  
Fredrick R. Stater  
Plant Manager

Overnight Mail

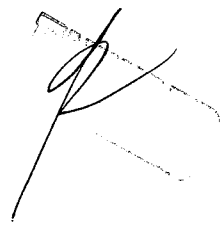
cc: Please see attached distribution sheet



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Attachments

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Updated: 15-Jan-09

**Document Name:** UIC Quarterly Report \*

\* Cover letter includes everything but the analytical reports on CD (Data) - and is reproduced in a 2-sided transmittal

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Krish	Ed	AECOM	X	X	
Budin-Caloroso	Jessica	AECOM	X	X	
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Erickson	Lee	Stauffer			
Kelly	Joe	Montrose			
Sundberg	Paul	Montrose			
Gibson	Jeff	AmPac			
Richards	Curt	Olin			
Bellotti	Michael	Olin			
Wilkinson	Craig	Timet			
Mack	Joel	Montrose Counsel			

## **ATTACHMENT 1**

### **Lake Mead Water Added to Recharge Trenches Analytical Information (Analytical reports included on CD)**



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Documents\Digital An  
October 2008



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Documents\Excel Spr  
Analytical Summary

UIC Permit UNEV94218 - 4th Quarter 2008 - Injected Water Analytical Results

Sample Date	Sample ID	Analyte	Result	UNITs	MRL	UNITs	Method
10/16/2008	STABILIZED WATER	1,1,1-Trichloroethane	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	1,1,2,2-Tetrachloroethane	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	1,1,2-Trichloroethane (1,1,2-T	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	1,1-Dichloroethane	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	1,1-Dichloroethylene (1,1DCE)	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	1,2-Dichloroethane	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	1,2-Dichloropropane	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	2-Butanone (MEK)	ND	ug/l	10	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	2-Hexanone	ND	ug/l	10	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	4-Methyl-2-Pentanone (MIBK)	ND	ug/l	10	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Acetone	ND	ug/l	10	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Acrolein (Screen)	ND	ug/l	50	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Acrylonitrile (Screen)	ND	ug/l	50	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Alkalinity in CaCO3 units	142	mg/l	2	mg/l	SM 2320B
10/16/2008	STABILIZED WATER	Aluminum, Total, ICAP/MS	ND	ug/l	20	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	Anion Sum - Calculated	11	meq/l	0.001	meq/l	ML/SM1030E
10/16/2008	STABILIZED WATER	Antimony, Total, ICAP/MS	ND	ug/l	1	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	Arsenic, Total, ICAP/MS	2.3	ug/l	1	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	Barium, Total, ICAP/MS	120	ug/l	2	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	Benzene	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Beryllium, Total, ICAP/MS	ND	ug/l	1	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	Bicarb.Alkalinity as HCO3,calc	171	mg/l	2	mg/l	SM 2330B
10/16/2008	STABILIZED WATER	Boron, Total, ICAP	0.14	mg/l	0.05	mg/l	ML/EPA 200.7
10/16/2008	STABILIZED WATER	Bromoform	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Cadmium, Total, ICAP/MS	ND	ug/l	0.5	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	Calcium, Total, ICAP	59	mg/l	1	mg/l	ML/EPA 200.7
10/16/2008	STABILIZED WATER	Carbon disulfide	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Carbon Tetrachloride	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Carbonate as CO3, Calculated	4.4	mg/l	2	mg/l	SM 2330B
10/16/2008	STABILIZED WATER	Cation Sum - Calculated	10	meq/l	0.001	meq/l	SM 1030E
10/16/2008	STABILIZED WATER	Chloride	92	mg/l	1	mg/l	ML/EPA 300.0
10/16/2008	STABILIZED WATER	Chlorobenzene	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Chloroethane	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Chloroform (Trichloromethane)	1.4	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Chromium, Total, ICAP/MS	ND	ug/l	1	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	cis-1,2-Dichloroethene	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	cis-1,3-Dichloropropene	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Copper, Total, ICAP/MS	76	ug/l	2	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	Dibromochloromethane	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Dichlorobromomethane	0.8	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Dichlorodifluoromethane	ND	ug/l	0.5	ug/l	ML/EPA 524.2
10/16/2008	STABILIZED WATER	Ethyl benzene	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Fluoride	0.3	mg/l	0.05	mg/l	SM 4500F-C
10/16/2008	STABILIZED WATER	Hydroxide as OH, Calculated	ND	mg/l	2	mg/l	SM 2330B
10/16/2008	STABILIZED WATER	Iron, Total, ICAP	0.027	mg/l	0.02	mg/l	ML/EPA 200.7
10/16/2008	STABILIZED WATER	Lead, Total, ICAP/MS	ND	ug/l	0.5	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	m,p-Xylenes	ND	ug/l	1	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Magnesium, Total, ICAP	35	mg/l	0.1	mg/l	ML/EPA 200.7
10/16/2008	STABILIZED WATER	Manganese, Total, ICAP/MS	ND	ug/l	2	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	m-Dichlorobenzene (1,3-DCB)	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Mercury	ND	ug/l	0.2	ug/l	EPA 245.1
10/16/2008	STABILIZED WATER	Methyl Bromide	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Methyl Chloride	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Methylene Chloride	ND	ug/l	3	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Nickel, Total, ICAP/MS	14	ug/l	5	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	Nitrate as Nitrogen by IC	ND	mg/l	0.1	mg/l	ML/EPA 300.0
10/16/2008	STABILIZED WATER	o-Dichlorobenzene (1,2-DCB)	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	o-Xylene	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	p-Dichlorobenzene (1,4-DCB)	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Perchlorate	ND	ug/l	4	ug/l	EPA 314
10/16/2008	STABILIZED WATER	pH	8.6	Units	0.01	Units	SM 4500-HB
10/16/2008	STABILIZED WATER	Potassium, Total, ICAP	5.2	mg/l	1	mg/l	ML/EPA 200.7
10/16/2008	STABILIZED WATER	Selenium, Total, ICAP/MS	ND	ug/l	5	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	Silver, Total, ICAP/MS	ND	ug/l	0.5	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	Sodium, Total, ICAP	97	mg/l	1	mg/l	ML/EPA 200.7
10/16/2008	STABILIZED WATER	Specific Conductance	1000	umho/cm	2	umho/cm	SM 2510B
10/16/2008	STABILIZED WATER	Styrene	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Sulfate	250	mg/l	0.5	mg/l	ML/EPA 300.0
10/16/2008	STABILIZED WATER	Tetrachloroethylene (PCE)	ND	ug/l	0.5	ug/l	ML/EPA 624

**UIC Permit UNEV94218 - 4th Quarter 2008 - Injected Water Analytical Results**

<u>Sample Date</u>	<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>UNITs</u>	<u>MRL</u>	<u>UNITs</u>	<u>Method</u>
10/16/2008	STABILIZED WATER	Tetrahydrofuran	ND	ug/l	10	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Thallium, Total, ICAP/MS	ND	ug/l	1	ug/l	ML/EPA 200.8
10/16/2008	STABILIZED WATER	Toluene	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Total Dissolved Solid (TDS)	620	mg/l	10	mg/l	E160.1/SM2540C
10/16/2008	STABILIZED WATER	trans-1,2-Dichloroethene	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	trans-1,3-Dichloropropene	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Trichloroethylene (TCE)	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Trichlorofluoromethane	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Vinyl Acetate	ND	ug/l	10	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Vinyl Chloride (VC)	ND	ug/l	0.5	ug/l	ML/EPA 624
10/16/2008	STABILIZED WATER	Weak Acid Dissociable Cyanide	ND	mg/l	0.005	mg/l	SM 4500CN-I
10/16/2008	STABILIZED WATER	Zinc, Total, ICAP	0.11	mg/l	0.02	mg/l	EPA/ML 200.7

## ATTACHMENT 2

### Groundwater Monitoring

#### Analytical Information (Analytical reports included on CD)



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Documents\Excel Spr  
Water Levels – 4th Q 08



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Documents\Digital An  
11-4-08 GW Monitoring



C:\smc\My  
Documents\Digital An  
11-5-08 GW Monitoring



C:\smc\My  
Documents\Digital An  
1-6-08 GW Monitoring



C:\smc\My  
Documents\Excel Spr  
Summary of Monitoring Well Information



J:\SMC\My  
Documents\Word Doc  
Attachment A Checklist

Tronox LLC  
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS  
QUARTERLY GROUNDWATER ELEVATIONS (feet)

Date	M-25 TOC: 1759.93		M-38 TOC: 1759.73		M-80 TOC: 1746.04		M-79 TOC: 1740.21		M-86 TOC: 1744.23		M-94 TOC: 1695.07	
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
Nov-04	32.63	1727.48	30.79	1728.94	29.68	1716.37	28.16	1714.37	27.34	1716.89	12.73	1682.34
Feb-05	31.96	1727.97	30.41	1729.32	27.16	1718.89	27.04	1715.49	25.39	1718.84	12.07	1683
May-05	32.73	1727.2	30.77	1728.96	27.62	1718.43	27.73	1714.8	28.73	1715.5	12.71	1682.36
Aug-05	30.24	1729.69	30.11	1729.62	27.38	1718.67	26.53	1716	26.18	1718.05	11.48	1683.59
Nov-05	31.09	1728.84	30.28	1729.45	25.51	1720.54	26.1	1716.43	27.98	1716.25	11.4	1683.67
Feb-06	30.93	1729.00	30.35	1729.38	25.33	1720.72	25.48	1717.05	29.23	1715	11.62	1683.45
May-06	31.15	1728.78	30.51	1729.22	24.61	1721.44	25.13	1717.4	29.34	1714.89	11.55	1683.52
Aug-06	32.06	1727.87	31.65	1728.08	24.97	1721.08	26.12	1716.41	29.24	1714.99	11.59	1683.48
Nov-06	32.18	1727.75	31.01	1728.72	25.84	1720.21	26.09	1716.44	29.89	1714.34	11.4	1683.67
Feb-07	32.56	1727.37	31.03	1728.7	27.31	1718.74	26.75	1715.78	30	1714.23	11.64	1683.43
May-07	32.97	1726.96	31.13	1728.6	29.06	1716.99	27.59	1714.94	31.09	1713.14	11.62	1683.45
Aug-07	33.44	1726.49	31.43	1728.3	31.46	1714.59	29.42	1713.11	32.51	1711.72	11.9	1683.17
Nov-07	33.97	1725.96	31.54	1728.19	31.9	1714.15	30.05	1712.48	34.13	1710.1	12.08	1682.99
Feb-08	33.82	1726.11	31.52	1728.21	32.92	1713.13	30.63	1711.9	35.19	1709.04	12.78	1682.29
May-08	33.82	1726.11	31.46	1728.27	24.91	1721.14	25.66	1716.87	32.33	1711.9	damaged	-
Aug-08	33.64	1726.29	31.37	1728.36	25.15	1720.9	23.45	1719.08	damaged	-	"	-
Nov-08	33.68	1726.25	31.37	1728.36	28.35	1717.7	24.96	1717.57	"	-	"	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-

\* Monitoring Well M-94 was replaced by monitoring well M-95 in November 2008 correspondence from NDEP. Future reports will list M-95.

Tronox LLC  
Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS  
QUARTERLY GROUNDWATER ELEVATIONS (feet)

M-95*		M-96*		M-98		M-99		M-100		M-102	
TOC: 1693.49		TOC: 1693.49		TOC: 1731.91		TOC: 1730.74		TOC: 1730.93		TOC: 1740.24	
DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV
		11.62	1681.9	33.02	1698.88	30.53	1700.21	28.83	1702.1	39.18	1701.06
		10.2	1683.32	32.97	1698.93	29.96	1700.78	27.98	1702.95	37.73	1702.51
		10.89	1682.63	32.98	1698.92	30.09	1700.65	28.47	1702.46	39.44	1700.8
		9.79	1683.73	30.81	1701.09	28.74	1702	26.71	1704.22	36.51	1703.73
		9.75	1683.77	30.4	1701.5	28.3	1702.44	26.22	1704.71	36.14	1704.1
		10.1	1683.42	29.95	1701.95	27.97	1702.77	26	1704.93	36.48	1703.76
		10.03	1683.49	28.66	1703.24	27.85	1702.89	25.98	1704.95	36.91	1703.33
		10.1	1683.42	29.9	1702	27.89	1702.85	26.02	1704.91	37.33	1702.91
		9.93	1683.59	30	1701.9	27.97	1702.77	26.27	1704.66	37.66	1702.58
		10.25	1683.27	29.93	1701.97	28.07	1702.67	26.21	1704.72	37.76	1702.48
		10.2	1683.32	30.11	1701.79	28.32	1702.42	26.77	1704.16	38.05	1702.19
		10.47	1683.05	28.71	1703.19	29.57	1701.17	28.66	1702.27	39.38	1700.86
		10.37	1683.15	33.13	1698.77	31.34	1699.4	30.47	1700.46	40.67	1699.57
		11.32	1682.2	33.29	1698.61	32.68	1698.06	33.72	1697.21	41.99	1698.25
		11.86	1681.66	33.19	1698.71	33.6	1697.14	32.72	1698.21	42.05	1698.19
		10.46	1683.06	33.38	1698.52	31.92	1698.82	30.77	1700.16	43.31	1696.93
12.62	1680.87	12.68	1680.84	33.1	1698.8	31.17	1699.57	30.42	1700.51	43.23	1697.01
	-		-		-		-		-		-
	-		-		-		-		-		-
	-		-		-		-		-		-



**UIC Permit UNEV94218 - 4th Quarter 2008 - Monitoring Well Analytical Summary**

<u>Sample Date</u>	<u>Sample ID</u>	<u>Analyte</u>	<u>Result</u>	<u>UNITs</u>	<u>MRL</u>	<u>UNITs</u>	<u>Method</u>
11/4/2008	M-37	Chromium, Total, ICAP	0.023	mg/l	0.01	mg/l	ML/EPA 6010B
11/4/2008	M-37	Hexavalent chromium (Cr VI)	0.02	mg/l	0.005	mg/l	ML/EPA 7196
11/4/2008	M-37	Metals digestion performed.	Y	Yes/No	0	Yes/No	EPA 200 Prep
11/4/2008	M-37	Perchlorate	1770000	ug/l	4	ug/l	EPA 314
11/4/2008	M-37	PH (H3=past HT, not compliant)	7.3	Units	0.001	Units	ML/EPA 9040B
11/4/2008	M-37	Total Dissolved Solid (TDS)	4600	mg/l	10	mg/l	E160.1/SM2540C
11/4/2008	M-44	Chromium, Total, ICAP	0.83	mg/l	0.01	mg/l	ML/EPA 6010B
11/4/2008	M-44	Metals digestion performed.	Y	Yes/No	0	Yes/No	EPA 200 Prep
11/4/2008	M-44	Perchlorate	676000	ug/l	4	ug/l	EPA 314
11/4/2008	M-44	PH (H3=past HT, not compliant)	7.5	Units	0.001	Units	ML/EPA 9040B
11/4/2008	M-44	Total Dissolved Solid (TDS)	8140	mg/l	10	mg/l	E160.1/SM2540C
11/5/2008	M-11	Chromium, Total, ICAP	3.6	mg/l	0.01	mg/l	ML/EPA 6010B
11/5/2008	M-11	Hexavalent chromium (Cr VI)	3.38	mg/l	0.005	mg/l	ML/EPA 7196
11/5/2008	M-11	Metals digestion performed.	Y	Yes/No	0	Yes/No	EPA 200 Prep
11/5/2008	M-11	Perchlorate	50400	ug/l	4	ug/l	EPA 314
11/5/2008	M-11	PH (H3=past HT, not compliant)	7.9	Units	0.001	Units	ML/EPA 9040B
11/5/2008	M-11	Total Dissolved Solid (TDS)	3520	mg/l	10	mg/l	E160.1/SM2540C
11/5/2008	M-84	Chromium, Total, ICAP	0.066	mg/l	0.01	mg/l	ML/EPA 6010B
11/5/2008	M-84	Hexavalent chromium (Cr VI)	0.056	mg/l	0.005	mg/l	ML/EPA 7196
11/5/2008	M-84	Metals digestion performed.	Y	Yes/No	0	Yes/No	EPA 200 Prep
11/5/2008	M-84	Perchlorate	8930	ug/l	4	ug/l	EPA 314
11/5/2008	M-84	PH (H3=past HT, not compliant)	7.9	Units	0.001	Units	ML/EPA 9040B
11/5/2008	M-84	Total Dissolved Solid (TDS)	1020	mg/l	10	mg/l	E160.1/SM2540C
11/6/2008	M-100	Chromium, Total, ICAP	0.27	mg/l	0.01	mg/l	ML/EPA 6010B
11/6/2008	M-100	Hexavalent chromium (Cr VI)	0.259	mg/l	0.005	mg/l	ML/EPA 7196
11/6/2008	M-100	Metals digestion performed.	Y	Yes/No	0	Yes/No	EPA 200 Prep
11/6/2008	M-100	Perchlorate	43700	ug/l	4	ug/l	EPA 314
11/6/2008	M-100	PH (H3=past HT, not compliant)	7.8	Units	0.001	Units	ML/EPA 9040B
11/6/2008	M-100	Total Dissolved Solid (TDS)	1880	mg/l	10	mg/l	E160.1/SM2540C
11/6/2008	M-12A	Chromium, Total, ICAP	13	mg/l	0.01	mg/l	ML/EPA 6010B
11/6/2008	M-12A	Hexavalent chromium (Cr VI)	13.7	mg/l	0.005	mg/l	ML/EPA 7196
11/6/2008	M-12A	Metals digestion performed.	Y	Yes/No	0	Yes/No	EPA 200 Prep
11/6/2008	M-12A	Perchlorate	289000	ug/l	4	ug/l	EPA 314
11/6/2008	M-12A	PH (H3=past HT, not compliant)	7.9	Units	0.001	Units	ML/EPA 9040B
11/6/2008	M-12A	Total Dissolved Solid (TDS)	8100	mg/l	10	mg/l	E160.1/SM2540C
11/6/2008	M-36	Chromium, Total, ICAP	34	mg/l	0.01	mg/l	ML/EPA 6010B
11/6/2008	M-36	Hexavalent chromium (Cr VI)	36.6	mg/l	0.005	mg/l	ML/EPA 7196
11/6/2008	M-36	Metals digestion performed.	Y	Yes/No	0	Yes/No	EPA 200 Prep
11/6/2008	M-36	Perchlorate	1500000	ug/l	4	ug/l	EPA 314
11/6/2008	M-36	PH (H3=past HT, not compliant)	7.3	Units	0.001	Units	ML/EPA 9040B
11/6/2008	M-36	Total Dissolved Solid (TDS)	19500	mg/l	10	mg/l	E160.1/SM2540C

**ATTACHMENT A****UNEV 94218: Monitoring Report Requirements**

The Permittee shall submit **quarterly reports** on a continuous basis, **whether actively injecting or not**, which contain the following data (please check all information included in the attached report):

The UIC permit number and Attachment A.

The results of the chemical analyses as required by Table 1.

**Table 1**

<b>PARAMETER</b>	<b>FREQUENCY</b>	<b>LOCATION</b>	<b>LIMITATIONS</b>
VOCs, Total Perchlorate, and Profile I Analysis	Quarterly	Lake Mead Water at Discharge Pipe Prior to Injection	State and Federal Drinking Water Standards. Injectate must not degrade the Groundwater Quality
Total and Hexavalent Chromium	Quarterly	M-11, M-12A, M-36, M-37, M-44, M-84, M- 95, and M-100	Monitor and Report
Total Perchlorate, Including NaClO <sub>4</sub> and NH <sub>4</sub> ClO <sub>4</sub>	Quarterly	M-11, M-12A, M-36, M-37, M-44, M-84, M- 95, and M-100	Monitor and Report
TDS	Quarterly	M-11, M-12A, M-36, M-37, M-44, M-84, M- 95, and M-100	Monitor and Report
Injection Rate into Injection trenches and Total Volume injected	Continuously	Discharge Pipe Prior to Injection	100 gpm monthly average. Must be equivalent or less than total extraction rate and volume
Extraction Rate and Total Volume extracted	Continuously	Extraction Wells located Upgradient of Injection Trenches	Cumulative extraction rate must be equivalent or greater than injection rate and volume
Groundwater Elevation and Depth	Quarterly	M-25, M-38, M-80, M-82, M-86, M-95, M-96, M-98, M-99, M-100, and M-102	Monitor and Report

For each month in the reporting period document injection rate (gpm), volume, date, and time injected of Lake Mead water into two injection trenches.

Water level, contour map illustrating groundwater gradient and flow direction.

Summary narrative report of monitoring activities for that reporting period. The report shall include, but not be limited to, any problems encountered with the injection system, the results of any tests performed during that period, and any changes noted to the groundwater. If no injection has occurred, report the non-injection status and the reason the system is not in operation.

**Tronox LLC  
Henderson, Nevada Facility**

**UIC PERMIT UNEV94218  
EXTRACTION AND INJECTION RATES (gpm)**

<b>MONTH</b>	<b>EXTRACTION RATE</b>	<b>INJECTION RATE</b>		
	<b>(gpm)</b>	<b>(gpm)</b>		
	<b>Monthly Average</b>	<b>Monthly Average</b>	<b>Daily High</b>	<b>Daily Low</b>
<b>October 2008</b>	<b>65.5</b>	<b>40.6</b>	<b>42.2</b>	<b>38.4</b>
<b>November 2008</b>	<b>65.4</b>	<b>36.0</b>	<b>40.8</b>	<b>31.5</b>
<b>December 2008</b>	<b>65.4</b>	<b>35.3</b>	<b>37.0</b>	<b>33.4</b>