ENVIRON

July 22, 2011

UIC Compliance Coordinator Nevada Division of Environmental Protection 901 South Stewart Street, Suite 4001 Carson City, NV 89701-5249

Subject: UIC Permit # UNEV 94218 Permit - First and Second Quarter 2011

On January 12, 2009, Tronox Incorporated and 14 of its affiliates (collectively, "Tronox") filed petitions with the United States Bankruptcy Court, Southern District of New York under Chapter 11 of the Bankruptcy Code. Pursuant to its joint plan of reorganization, Tronox entered into an environmental settlement agreement and related agreements by which Tronox transferred all of its right, title, and interest with respect to remedial obligations at Henderson, Nevada to the Nevada Environmental Response Trust (the "Trust"). This transfer occurred on February 14, 2011 and NDEP has in turn transferred Permit #UNEV 94218 to the Trust.

The Trust now maintains Underground Injection Control (UIC) Permit #UNEV 94218 for groundwater remediation at the Henderson, Nevada, facility. Note that injection of the stabilized Lake Mead water was suspended as of September 16, 2010 due to soil removal surrounding the recharge trench. This soil excavation is described in the NDEP-Bureau of Corrective Actions approved RZ-D Excavation Plan for the Tronox Henderson facility and is in response to soil remedial efforts which are on-going at the site. Resumption of the injection of stabilized Lake Mead water is under evaluation, but is currently not occurring. Pursuant to the permit's Section I.A.4 Attachment A samples of the Lake Mead water, which is permitted for injection into the recharge trenches, were collected and analyzed for the subject period. Please see Attachment 1 for the Lake Mead water analytical summary, the Permit's checklist and the Lake Mead water sample information form. Supporting electronic analytical reports are provided on the CD in Attachment 3.

Section I.A.4 Attachment A requires quarterly groundwater monitoring and collection of groundwater elevations. This information is provided in Attachment 2, together with a monitor well sample information form. The supporting electronic analytical reports are provided on the CD in Attachment 3. Section I.A.4 Attachment A requires monitoring of the injection and the extraction monthly rate averages. This information is included in Attachment 2. Section I.A.4 Attachment A requires preparation of a potentiometric surface map each quarter. Maps were prepared for both subject quarters, based upon water levels measured in the respective quarter and are included in Attachment 4.

Please feel free to contact Susan Crowley at (702) 592-7727 or smcrowley@cox.net if you have any questions regarding this information. Thank you.

Sincerely,

Allan DeLorme, PE Managing Principal

Overnight Mail

UIC Compliance Coordinator July 22, 2011 Page 2

cc: Please see attached distribution sheet



Attachments

Tronox Document Distribution List

Updated:

24-Jan-11

Document Name:

UIC Quarterly Report (e-copies provided via e-mail distribution)

	me	Firm		Distributio	n
(Last,	First)	9	Hard	e-Copy	Cvr Only
Land	Russ	NDEP		X	
King	Val	NDEP			
Najima	Jim	NDEP			
Levato	Greg	NDEP		X	
Sous	Nadir	NDEP			
Tinney	Al	NDEP			
Palm	Jon	NDEP			
Harbour	Shannon	NDEP		Х	
Black	Paul	Neptune			
Hackenberry	Paul	Hackenberry			
Copeland	Teri				
Gratson	Dave	Neptune			
Otani-Fehling	Joanna	Neptune			
Pohlmann Conaty	Brenda Barry	COH COH Consultant			
Mulroy Goff Liesing	Pat Mike Joe	SNWA SNWA SNWA			
Kaplan	Mitch	EPA, Reg 9			
Compliance Co	ordinator	NDEP	Χ	Χ	
Compliance Co		DAQEM			
Juma	Ebrahim	CCDAQEM			
Public Reposito	ry	Library			

N	lame	Firm	Distribution		n
(Las	st, First)		Hard	e-Copy	Cvr Only
Widman Paque Stater Crowley	Roy Matt Rick Susan	Tronox Tronox Counsel Tronox Crowley Environmental	x X	X	
Skromyda Bailey Krish Steinberg DeLorme Travers	Mike Keith Ed Andrew Allan Mark	Tronox Environmental Answers EJKrish Trust Environ Environ		X X X	
Jones	Saritha	Environ		X	
McDaniels Prescot	Thomas Barry	Veolia GEI		X X	
Stowers Sahu Crouse Erickson Kelly Sundberg Gibson Richards Bellotti Wilkinson Mack	Kirk Rahnijit George Lee Joe Paul Jeff Curt Michael Craig Joel	Broadbent BMI Syngenta Stauffer Montrose Montrose AmPac Olin Olin Timet			

UIC Permit UNEV 94218 – 1st and 2nd Q 2011 CEM Certification

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.

.....

CEM 1428, expires 3-8-13

muonly

ATTACHMENT 1

Lake Mead Water Available to Add to Recharge Trenches Analytical Information (Analytical reports included on Attachment 3 CD)



Stabilized.xlsx



Stablilized Water.xlsx

Analytical Summary



Documents\Word Doc

UIC Permit - Attachment A Checklist



Injected Water Sample Information Form

UIC Permit UNEV 94218 - 2nd Quarter 2011 - Lake Mead Water Analytical Summary

Sample Date 4/4/2011	<u>Sample ID</u> Stabilized Water	<u>Analyte</u> Total Dissolved Solids (TDS)	Result 630	<u>Units</u> mg/L	<u>MRL</u> 10	<u>Units</u> mg/L	<u>Method</u> E160.1/SM2540C
4/4/2011	Stabilized Water	Boron Total ICAP	0.12	mg/L	0.05	mg/L	EPA 200.7
4/4/2011	Stabilized Water	Calcium Total ICAP	77	mg/L	1	mg/L	EPA 200.7
4/4/2011	Stabilized Water	Iron Total ICAP	ND	mg/L	0.02	mg/L	EPA 200.7
4/4/2011	Stabilized Water	Magnesium Total ICAP	27	mg/L	0.1	mg/L	EPA 200.7
4/4/2011	Stabilized Water	Potassium Total ICAP	4.7	mg/L	1	mg/L	EPA 200.7
4/4/2011	Stabilized Water	Sodium Total ICAP	87	mg/L	1	mg/L	EPA 200.7
4/4/2011	Stabilized Water	Aluminum Total ICAP/MS	ND	ug/L	20	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Antimony Total ICAP/MS	ND	ug/L	1	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Arsenic Total ICAP/MS	2.5	ug/L	1	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Barium Total ICAP/MS	120	ug/L	2	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Beryllium Total ICAP/MS	ND	ug/L	1	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Cadmium Total ICAP/MS	ND	ug/L	0.5	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Chromium Total ICAP/MS	ND	ug/L	1	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Copper Total ICAP/MS	95	ug/L	2	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Lead Total ICAP/MS	ND	ug/L	0.5	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Manganese Total ICAP/MS	ND	ug/L	2	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Nickel Total ICAP/MS	ND	ug/L	5	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Selenium Total ICAP/MS	ND	ug/L	5	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Thallium Total ICAP/MS	ND	ug/L	1	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Zinc Total ICAP/MS	100	ug/L	20	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Silver Total ICAP/MS	ND	ug/L	0.5	ug/L	EPA 200.8
4/4/2011	Stabilized Water	Mercury	ND	ug/L	0.2	ug/L	EPA 245.1
4/4/2011	Stabilized Water	Chloride	83	mg/L	1	mg/L	EPA 300.0
4/4/2011	Stabilized Water	Nitrate as Nitrogen by IC	0.62	mg/L	0.1	mg/L	EPA 300.0
4/4/2011	Stabilized Water	Nitrate as NO3 (calc)	2.7	mg/L	0.44	mg/L	EPA 300.0
4/4/2011	Stabilized Water	Nitrite Nitrogen by IC	ND	mg/L	0.05	mg/L	EPA 300.0
4/4/2011	Stabilized Water	Sulfate	230	mg/L	0.5	mg/L	EPA 300.0
4/4/2011	Stabilized Water	Total Nitrate, Nitrite-N, CALC	0.62	mg/L	0.1	mg/L	EPA 300.0
4/4/2011	Stabilized Water	Perchlorate	ND	ug/L	4	ug/L	EPA 314.0
4/4/2011	Stabilized Water	1,1,1-Trichloroethane	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	1,1,2,2-Tetrachloroethane	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	1,1,2-Trichloroethane	ND	ug/L	0.5	ug/L	EPA 624 EPA 624
4/4/2011	Stabilized Water Stabilized Water	1,1-Dichloroethane	ND ND	ug/L	0.5 0.5	ug/L	EPA 624
4/4/2011 4/4/2011	Stabilized Water	1,1-Dichloroethylene 1,2-Dichloroethane	ND	ug/L ug/L	0.5	ug/L ug/L	EPA 624
4/4/2011	Stabilized Water	1,2-Dichloropropane	ND	ug/L ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	2-Butanone (MEK)	ND	ug/L	5	ug/L	EPA 624
4/4/2011	Stabilized Water	2-Hexanone	ND	ug/L	10	ug/L	EPA 624
4/4/2011	Stabilized Water	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	5	ug/L	EPA 624
4/4/2011	Stabilized Water	Acetone	ND	ug/L	10	ug/L	EPA 624
4/4/2011	Stabilized Water	Acrolein (Screen)	ND	ug/L	5	ug/L	EPA 624
4/4/2011	Stabilized Water	Acrylonitrile (Screen)	ND	ug/L	2	ug/L	EPA 624
4/4/2011	Stabilized Water	Benzene	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Bromodichloromethane	0.94	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Bromoform	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Bromomethane (Methyl Bromide)	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Carbon disulfide	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Carbon Tetrachloride	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Chlorobenzene	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Chlorodibromomethane	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Chloroethane	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Chloroform (Trichloromethane)	1.4	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Chloromethane(Methyl Chloride)	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	cis-1,2-Dichloroethylene	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	cis-1,3-Dichloropropene	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Dichlorodifluoromethane	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Dichloromethane	ND	ug/L	0.5	ug/L	EPA 624

UIC Permit UNEV 94218 - 2nd Quarter 2011 - Lake Mead Water Analytical Summary

Sample Date	Sample ID	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	MRL	<u>Units</u>	Method
4/4/2011	Stabilized Water	Ethyl benzene	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	m,p-Xylenes	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	m-Dichlorobenzene (1,3-DCB)	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Methyl Tert-butyl ether (MTBE)	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	o-Dichlorobenzene (1,2-DCB)	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	o-Xylene	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	p-Dichlorobenzene (1,4-DCB)	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Styrene	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Tetrachloroethylene (PCE)	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Tetrahydrofuran	ND	ug/L	10	ug/L	EPA 624
4/4/2011	Stabilized Water	Toluene	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Total 1,3-Dichloropropene	ND	ug/L	1	ug/L	EPA 624
4/4/2011	Stabilized Water	trans-1,2-Dichloroethylene	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	trans-1,3-Dichloropropene	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Trichloroethylene (TCE)	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Trichlorofluoromethane	ND	ug/L	0.5	ug/L	EPA 624
4/4/2011	Stabilized Water	Vinyl Acetate	ND	ug/L	10	ug/L	EPA 624
4/4/2011	Stabilized Water	Vinyl chloride (VC)	ND	ug/L	0.3	ug/L	EPA 624
4/4/2011	Stabilized Water	Anion Sum - Calculated	9.8	meq/L	0.001	meq/L	SM 1030E
4/4/2011	Stabilized Water	Cation Sum - Calculated	10	meq/L	0.001	meq/L	SM 1030E
4/4/2011	Stabilized Water	Alkalinity in CaCO3 units	130	mg/L	2	mg/L	SM 2320B
4/4/2011	Stabilized Water	pH of CaCO3 saturation(25C)	7.4	Units	0.1	Units	SM 2330B
4/4/2011	Stabilized Water	pH of CaCO3 saturation(60C)	6.9	Units	0.1	Units	SM 2330B
4/4/2011	Stabilized Water	Total Hardness as CaCO3 by ICP (calc)	300	mg/L	3	mg/L	SM 2340B
4/4/2011	Stabilized Water	Fluoride	0.31	mg/L	0.05	mg/L	SM 4500F-C
4/4/2011	Stabilized Water	Bicarb.Alkalinity as HCO3calc	160	mg/L	2	mg/L	SM2330B
4/4/2011	Stabilized Water	Carbonate as CO3, Calculated	2.1	mg/L	2	mg/L	SM2330B
4/4/2011	Stabilized Water	Hydroxide as OH Calculated	ND	mg/L	2	mg/L	SM2330B
4/4/2011	Stabilized Water	Specific Conductance, 25 C	1000	umho/cm	2	umho/cm	SM2510B
4/4/2011	Stabilized Water	Weak Acid Dissociable Cyanide	ND	mg/L	0.005	mg/L	SM4500CN-I
4/4/2011	Stabilized Water	Carbon Dioxide,Free(25C)-Calc.	ND	mg/L	2	mg/L	SM4500-CO2-D
4/4/2011	Stabilized Water	PH (H3=past HT not compliant)	8.3	Units	0.1	Units	SM4500-HB

UIC Permit UNEV94218 - 1st Quarter 2011 - Lake Mead Water Analytical Summary

Sample Date	Sample ID	<u>Analyte</u>	<u>Result</u>	<u>UNITs</u>	<u>Method</u>
1/3/2011	Stabilized Water	Total Dissolved Solids (TDS)	590	mg/L	E160.1/SM2540C
1/3/2011	Stabilized Water	Boron Total ICAP	0.13	mg/L	EPA 200.7
1/3/2011	Stabilized Water	Calcium Total ICAP	73	mg/L	EPA 200.7
1/3/2011	Stabilized Water	Iron Total ICAP	0.052	mg/L	EPA 200.7
1/3/2011	Stabilized Water	Magnesium Total ICAP	27	mg/L	EPA 200.7
1/3/2011	Stabilized Water	Potassium Total ICAP	4.6	mg/L	EPA 200.7
1/3/2011	Stabilized Water	Sodium Total ICAP	88	mg/L	EPA 200.7
1/3/2011	Stabilized Water	Aluminum Total ICAP/MS	ND	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Antimony Total ICAP/MS	ND	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Arsenic Total ICAP/MS	2.4	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Barium Total ICAP/MS	120	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Beryllium Total ICAP/MS	ND	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Cadmium Total ICAP/MS	ND	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Chromium Total ICAP/MS	ND	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Copper Total ICAP/MS	68	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Lead Total ICAP/MS	ND	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Manganese Total ICAP/MS	ND	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Nickel Total ICAP/MS	ND	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Selenium Total ICAP/MS	ND	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Silver Total ICAP/MS	ND	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Thallium Total ICAP/MS	ND	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Zinc Total ICAP/MS	160	ug/L	EPA 200.8
1/3/2011	Stabilized Water	Mercury	ND	ug/L	EPA 245.1
1/3/2011	Stabilized Water	Chloride	83	mg/L	EPA 300.0
1/3/2011	Stabilized Water	Nitrate as Nitrogen by IC	0.64	mg/L	EPA 300.0
1/3/2011	Stabilized Water	Nitrate as NO3 (calc)	2.8	mg/L	EPA 300.0
1/3/2011	Stabilized Water	Nitrite Nitrogen by IC	ND	mg/L	EPA 300.0
1/3/2011	Stabilized Water	Sulfate	220	mg/L	EPA 300.0
1/3/2011	Stabilized Water	Total Nitrate, Nitrite-N, CALC	0.64	mg/L	EPA 300.0
1/3/2011	Stabilized Water	Perchlorate	ND	ug/L	EPA 314.0
1/3/2011	Stabilized Water	1,1,1-Trichloroethane	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	1,1,2,2-Tetrachloroethane	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	1,1,2-Trichloroethane	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	1,1-Dichloroethane	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	1,1-Dichloroethylene	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	1,2-Dichloroethane	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	1,2-Dichloropropane	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	2-Butanone (MEK)	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	2-Hexanone	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	4-Methyl-2-Pentanone (MIBK)	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	Acetone	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	Acrolein (Screen)	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	Acrylonitrile (Screen)	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	Benzene	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	Bromodichloromethane	1.1	ug/L	EPA 624
1/3/2011	Stabilized Water	Bromoform	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	Bromomethane (Methyl Bromide)	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	Carbon disulfide	ND	ug/L	EPA 624
1/3/2011	Stabilized Water	Carbon Tetrachloride	ND	ug/L	EPA 624

UIC Permit UNEV94218 - 1st Quarter 2011 - Lake Mead Water Analytical Summary

1/3/2011 Stabilized Water Chlorobenzene ND ug/L EPA 624 1/3/2011 Stabilized Water Chlorodibromomethane ND ug/L EPA 624 1/3/2011 Stabilized Water Chloroform (Trichloromethane) ND ug/L EPA 624 1/3/2011 Stabilized Water Chloroform (Trichloromethane) 2.6 ug/L EPA 624 1/3/2011 Stabilized Water Chloromethane(Methyl Chloride) ND ug/L EPA 624 1/3/2011 Stabilized Water cis-1,3-Dichloropthylene ND ug/L EPA 624 1/3/2011 Stabilized Water Dichloromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Dichloromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Dichloromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Ethyl benzene ND ug/L EPA 624 1/3/2011 Stabilized Water M-Dichlorobenzene (1,3-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Methyl Tert-butyl ether (MTBE) ND ug/L EPA 624 1/3/2011 Stabilized Water O-Dichlorobenzene (1,2-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water O-Dichlorobenzene (1,2-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water D-Dichlorobenzene (1,2-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water O-Dichlorobenzene (1,2-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water D-Dichlorobenzene (1,2-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water D-Dichlorobenzene (1,2-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Troilune ND ug/L EPA 624 1/3/2011 Stabilized Water Troilunomethane ND ug/L EPA 624 1/3/2011 Stabilized Water Troilunomethane ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3
1/3/2011 Stabilized Water Chloroethane ND ug/L EPA 624 1/3/2011 Stabilized Water Chloroform (Trichloromethane) 2.6 ug/L EPA 624 1/3/2011 Stabilized Water Chloroform (Trichloromethane) 2.6 ug/L EPA 624 1/3/2011 Stabilized Water Chloromethane(Methyl Chloride) ND ug/L EPA 624 1/3/2011 Stabilized Water cis-1,3-Dichloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water Dichlorodeffluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Dichloromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Dichloromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Ethyl benzene ND ug/L EPA 624 1/3/2011 Stabilized Water m-Dichlorobenzene (1,3-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Methyl Tert-butyl ether (MTBE) ND ug/L EPA 624 1/3/2011 Stabilized Water O-Dichlorobenzene (1,2-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water O-Dichlorobenzene (1,2-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water O-Dichlorobenzene (1,4-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Styrene ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Toluene ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Trotal 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Trotal 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichlorofluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl chloride (VC) ND ug/L EPA 624 1/3/2011 Sta
1/3/2011 Stabilized Water Chloroform (Trichloromethane) 2.6 ug/L EPA 624 1/3/2011 Stabilized Water Chloromethane(Methyl Chloride) ND ug/L EPA 624 1/3/2011 Stabilized Water cis-1,2-Dichloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water cis-1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Dichloromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Dichloromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Dichloromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Ethyl benzene ND ug/L EPA 624 1/3/2011 Stabilized Water m,p-Xylenes ND ug/L EPA 624 1/3/2011 Stabilized Water m-Dichlorobenzene (1,3-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Methyl Tert-butyl ether (MTBE) ND ug/L EPA 624 1/3/2011 Stabilized Water o-Dichlorobenzene (1,2-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water o-Dichlorobenzene (1,4-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Folichlorobenzene (1,4-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Folichlorobenzene (1,4-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water Toluene ND ug/L EPA 624 1/3/2011 Stabilized Water Toluene ND ug/L EPA 624 1/3/2011 Stabilized Water Toluene ND ug/L EPA 624 1/3/2011 Stabilized Water Trans-1,2-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Trans-1,2-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Trinchlorofluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Trinchlorofluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Trichlorofluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Anion Sum - Calculated 9.6 m
1/3/2011 Stabilized Water cis-1,2-Dichloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water cis-1,2-Dichloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water cis-1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Dichlorodifluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Dichloromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Ethyl benzene ND ug/L EPA 624 1/3/2011 Stabilized Water m,p-Xylenes ND ug/L EPA 624 1/3/2011 Stabilized Water m-Dichlorobenzene (1,3-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Methyl Tert-butyl ether (MTBE) ND ug/L EPA 624 1/3/2011 Stabilized Water o-Dichlorobenzene (1,2-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water o-Xylene ND ug/L EPA 624 1/3/2011 Stabilized Water p-Dichlorobenzene (1,4-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Fetaloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrahydrofuran 15 ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water Trichlorofluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Trichlorofluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Trichlorofluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water ND ug/L EPA 624 1/3/2011 Stabilized Water ND ug/L EPA 624 1/3/2011 Stabilized Water ND ug/L EPA 624 1/3/2011 Stabilized Wa
1/3/2011Stabilized Watercis-1,2-DichloroethyleneNDug/LEPA 6241/3/2011Stabilized Watercis-1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterDichlorodifluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterDichloromethaneNDug/LEPA 6241/3/2011Stabilized WaterEthyl benzeneNDug/LEPA 6241/3/2011Stabilized Waterm,p-XylenesNDug/LEPA 6241/3/2011Stabilized WaterMethyl Tert-butyl ether (MTBE)NDug/LEPA 6241/3/2011Stabilized Watero-Dichlorobenzene (1,3-DCB)NDug/LEPA 6241/3/2011Stabilized Watero-Dichlorobenzene (1,2-DCB)NDug/LEPA 6241/3/2011Stabilized Waterp-Dichlorobenzene (1,4-DCB)NDug/LEPA 6241/3/2011Stabilized Waterp-Dichlorobenzene (1,4-DCB)NDug/LEPA 6241/3/2011Stabilized WaterTetrachloroethylene (PCE)NDug/LEPA 6241/3/2011Stabilized WaterTetrachloroethylene (PCE)NDug/LEPA 6241/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrotal 1,3-DichloroethyleneNDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluorom
1/3/2011Stabilized Watercis-1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterDichlorodifluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterDichloromethaneNDug/LEPA 6241/3/2011Stabilized WaterEthyl benzeneNDug/LEPA 6241/3/2011Stabilized Waterm,p-XylenesNDug/LEPA 6241/3/2011Stabilized Waterm-Dichlorobenzene (1,3-DCB)NDug/LEPA 6241/3/2011Stabilized WaterMethyl Tert-butyl ether (MTBE)NDug/LEPA 6241/3/2011Stabilized Watero-Dichlorobenzene (1,2-DCB)NDug/LEPA 6241/3/2011Stabilized Waterp-Dichlorobenzene (1,4-DCB)NDug/LEPA 6241/3/2011Stabilized Waterp-Dichlorobenzene (1,4-DCB)NDug/LEPA 6241/3/2011Stabilized WaterTetrachloroethylene (PCE)NDug/LEPA 6241/3/2011Stabilized WaterTetrachloroethylene (PCE)NDug/LEPA 6241/3/2011Stabilized WaterTotueneNDug/LEPA 6241/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)ND
1/3/2011 Stabilized Water Dichlorodifluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Dichloromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Ethyl benzene ND ug/L EPA 624 1/3/2011 Stabilized Water m,p-Xylenes ND ug/L EPA 624 1/3/2011 Stabilized Water m-Dichlorobenzene (1,3-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Methyl Tert-butyl ether (MTBE) ND ug/L EPA 624 1/3/2011 Stabilized Water O-Dichlorobenzene (1,2-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water O-Xylene ND ug/L EPA 624 1/3/2011 Stabilized Water p-Dichlorobenzene (1,4-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Styrene ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrahydrofuran 15 ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Trans-1,2-Dichloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water Trans-1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichlorofluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Non ug/L EPA 624
1/3/2011Stabilized WaterDichloromethaneNDug/LEPA 6241/3/2011Stabilized WaterEthyl benzeneNDug/LEPA 6241/3/2011Stabilized Waterm,p-XylenesNDug/LEPA 6241/3/2011Stabilized WaterMethyl Tert-butyl ether (MTBE)NDug/LEPA 6241/3/2011Stabilized Watero-Dichlorobenzene (1,2-DCB)NDug/LEPA 6241/3/2011Stabilized Watero-Dichlorobenzene (1,2-DCB)NDug/LEPA 6241/3/2011Stabilized Waterp-Dichlorobenzene (1,4-DCB)NDug/LEPA 6241/3/2011Stabilized WaterStyreneNDug/LEPA 6241/3/2011Stabilized WaterTetrachloroethylene (PCE)NDug/LEPA 6241/3/2011Stabilized WaterTetrahydrofuran15ug/LEPA 6241/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6
1/3/2011Stabilized WaterEthyl benzeneNDug/LEPA 6241/3/2011Stabilized Waterm,p-XylenesNDug/LEPA 6241/3/2011Stabilized Waterm-Dichlorobenzene (1,3-DCB)NDug/LEPA 6241/3/2011Stabilized WaterMethyl Tert-butyl ether (MTBE)NDug/LEPA 6241/3/2011Stabilized Watero-Dichlorobenzene (1,2-DCB)NDug/LEPA 6241/3/2011Stabilized Waterp-Dichlorobenzene (1,4-DCB)NDug/LEPA 6241/3/2011Stabilized WaterStyreneNDug/LEPA 6241/3/2011Stabilized WaterTetrachloroethylene (PCE)NDug/LEPA 6241/3/2011Stabilized WaterTetrahydrofuran15ug/LEPA 6241/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,2-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6
1/3/2011Stabilized Waterm,p-XylenesNDug/LEPA 6241/3/2011Stabilized Waterm-Dichlorobenzene (1,3-DCB)NDug/LEPA 6241/3/2011Stabilized WaterMethyl Tert-butyl ether (MTBE)NDug/LEPA 6241/3/2011Stabilized Watero-Dichlorobenzene (1,2-DCB)NDug/LEPA 6241/3/2011Stabilized Waterp-Dichlorobenzene (1,4-DCB)NDug/LEPA 6241/3/2011Stabilized Waterp-Dichlorobenzene (1,4-DCB)NDug/LEPA 6241/3/2011Stabilized WaterTetrachloroethylene (PCE)NDug/LEPA 6241/3/2011Stabilized WaterTetrahydrofuran15ug/LEPA 6241/3/2011Stabilized WaterTolueneNDug/LEPA 6241/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,2-DichloroethyleneNDug/LEPA 6241/3/2011Stabilized Watertrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl Chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterAnion Sum - Calculated9.6 <td< td=""></td<>
1/3/2011Stabilized Waterm-Dichlorobenzene (1,3-DCB)NDug/LEPA 6241/3/2011Stabilized WaterMethyl Tert-butyl ether (MTBE)NDug/LEPA 6241/3/2011Stabilized Watero-Dichlorobenzene (1,2-DCB)NDug/LEPA 6241/3/2011Stabilized Waterp-Dichlorobenzene (1,4-DCB)NDug/LEPA 6241/3/2011Stabilized WaterStyreneNDug/LEPA 6241/3/2011Stabilized WaterTetrachloroethylene (PCE)NDug/LEPA 6241/3/2011Stabilized WaterTetrahydrofuran15ug/LEPA 6241/3/2011Stabilized WaterTolueneNDug/LEPA 6241/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrotal 1,3-DichloroethyleneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,2-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl Chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterVinyl Chloride (VC)NDug/L
1/3/2011Stabilized WaterMethyl Tert-butyl ether (MTBE)NDug/LEPA 6241/3/2011Stabilized Watero-Dichlorobenzene (1,2-DCB)NDug/LEPA 6241/3/2011Stabilized Watero-XyleneNDug/LEPA 6241/3/2011Stabilized Waterp-Dichlorobenzene (1,4-DCB)NDug/LEPA 6241/3/2011Stabilized WaterStyreneNDug/LEPA 6241/3/2011Stabilized WaterTetrachloroethylene (PCE)NDug/LEPA 6241/3/2011Stabilized WaterTolueneNDug/LEPA 6241/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrotal 1,3-DichloroethyleneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,2-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 624<
1/3/2011Stabilized Watero-Dichlorobenzene (1,2-DCB)NDug/LEPA 6241/3/2011Stabilized Waterp-Dichlorobenzene (1,4-DCB)NDug/LEPA 6241/3/2011Stabilized WaterStyreneNDug/LEPA 6241/3/2011Stabilized WaterTetrachloroethylene (PCE)NDug/LEPA 6241/3/2011Stabilized WaterTetrahydrofuran15ug/LEPA 6241/3/2011Stabilized WaterTolueneNDug/LEPA 6241/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,2-DichloroethyleneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterAnion Sum - Calculated9.6meq/LSM 1030E
1/3/2011Stabilized Watero-XyleneNDug/LEPA 6241/3/2011Stabilized Waterp-Dichlorobenzene (1,4-DCB)NDug/LEPA 6241/3/2011Stabilized WaterStyreneNDug/LEPA 6241/3/2011Stabilized WaterTetrachloroethylene (PCE)NDug/LEPA 6241/3/2011Stabilized WaterTolueneNDug/LEPA 6241/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,2-DichloroethyleneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterAnion Sum - Calculated9.6meq/LSM 1030E
1/3/2011 Stabilized Water p-Dichlorobenzene (1,4-DCB) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Toluene ND ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water trans-1,2-Dichloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water trans-1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichlorofluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl Acetate ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl Acetate ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl chloride (VC) ND ug/L EPA 624 1/3/2011 Stabilized Water Anion Sum - Calculated 9.6 meq/L SM 1030E
1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Toluene ND ug/L EPA 624 1/3/2011 Stabilized Water Toluene ND ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water trans-1,2-Dichloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water trans-1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichlorofluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl Acetate ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl Acetate ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl chloride (VC) ND ug/L EPA 624 1/3/2011 Stabilized Water Anion Sum - Calculated 9.6 meq/L SM 1030E
1/3/2011 Stabilized Water Tetrachloroethylene (PCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Toluene ND ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water trans-1,2-Dichloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water trans-1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichlorofluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl Acetate ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl Acetate ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl chloride (VC) ND ug/L EPA 624 1/3/2011 Stabilized Water Anion Sum - Calculated 9.6 meq/L SM 1030E
1/3/2011Stabilized WaterTetrahydrofuran15ug/LEPA 6241/3/2011Stabilized WaterTolueneNDug/LEPA 6241/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,2-DichloroethyleneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterAnion Sum - Calculated9.6meq/LSM 1030E
1/3/2011 Stabilized Water Toluene ND ug/L EPA 624 1/3/2011 Stabilized Water Total 1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water trans-1,2-Dichloroethylene ND ug/L EPA 624 1/3/2011 Stabilized Water trans-1,3-Dichloropropene ND ug/L EPA 624 1/3/2011 Stabilized Water Trichloroethylene (TCE) ND ug/L EPA 624 1/3/2011 Stabilized Water Trichlorofluoromethane ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl Acetate ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl Acetate ND ug/L EPA 624 1/3/2011 Stabilized Water Vinyl chloride (VC) ND ug/L EPA 624 1/3/2011 Stabilized Water Anion Sum - Calculated 9.6 meq/L SM 1030E
1/3/2011Stabilized WaterTotal 1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,2-DichloroethyleneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterAnion Sum - Calculated9.6meq/LSM 1030E
1/3/2011Stabilized Watertrans-1,2-DichloroethyleneNDug/LEPA 6241/3/2011Stabilized Watertrans-1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterAnion Sum - Calculated9.6meq/LSM 1030E
1/3/2011Stabilized Watertrans-1,3-DichloropropeneNDug/LEPA 6241/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterAnion Sum - Calculated9.6meq/LSM 1030E
1/3/2011Stabilized WaterTrichloroethylene (TCE)NDug/LEPA 6241/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterAnion Sum - Calculated9.6meq/LSM 1030E
1/3/2011Stabilized WaterTrichlorofluoromethaneNDug/LEPA 6241/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterAnion Sum - Calculated9.6meq/LSM 1030E
1/3/2011Stabilized WaterVinyl AcetateNDug/LEPA 6241/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterAnion Sum - Calculated9.6meq/LSM 1030E
1/3/2011Stabilized WaterVinyl chloride (VC)NDug/LEPA 6241/3/2011Stabilized WaterAnion Sum - Calculated9.6meq/LSM 1030E
1/3/2011 Stabilized Water Anion Sum - Calculated 9.6 meq/L SM 1030E
· ·
1/3/2011 Stabilized Water Cation Sum - Calculated 9.8 meg/L SM 1030E
, ,
1/3/2011 Stabilized Water Alkalinity in CaCO3 units 130 mg/L SM 2320B
1/3/2011 Stabilized Water Langelier Index - 25 degree 0.68 None SM 2330B
1/3/2011 Stabilized Water Langelier Index at 60 degrees C 1.1 None SM 2330B
1/3/2011 Stabilized Water pH of CaCO3 saturation(25C) 7.4 Units SM 2330B
1/3/2011 Stabilized Water pH of CaCO3 saturation(60C) 6.9 Units SM 2330B
1/3/2011 Stabilized Water Total Hardness as CaCO3 by ICP (calc) 290 mg/L SM 2340B
1/3/2011 Stabilized Water Fluoride 0.29 mg/L SM 4500F-C
1/3/2011 Stabilized Water Bicarb.Alkalinity as HCO3calc 160 mg/L SM2330B
1/3/2011 Stabilized Water Carbonate as CO3, Calculated ND mg/L SM2330B
1/3/2011 Stabilized Water Hydroxide as OH Calculated ND mg/L SM2330B
1/3/2011 Stabilized Water Specific Conductance, 25 C 980 umho/cm SM2510B
1/3/2011 Stabilized Water Carbon Dioxide,Free(25C)-Calc. 2.5 mg/L SM4500-CO2-D
1/3/2011 Stabilized Water PH (H3=past HT not compliant) 8 Units SM4500-HB
1/3/2011 Stabilized Water Weak Acid Dissociable Cyanide ND mg/L SM4500CN-I

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):

__X_ The UIC permit number and Attachment A.

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

Table 1

PARAMETER	FREQUENCY	LOCATION	LIMITATIONS
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 ₄ and NH ₄ ClO ₄	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

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

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

X 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.



Nevada Division of Environmental Protection Bureau of Water Pollution Control Underground Injection Control Program

901 S. Stewart St Ste 4001 Carson City Nevada 89701 Ph: 775-687-9418 Fx: 775-687-4684



UIC Form U230 – Field Sampling & Monitoring Summary

This form is to be completed in the field while sampling to document the sampling location facts and events, and submitted with the sample results.

Sample Date: (mm/dd/yy) 01-03-11 and 04-04-11

Complete All Applicable Blanks – Water samples can be rejected if information not provided.

FACILITY AND PERMIT INFORMATION							
Well Name & No.: Injected stabilized Lake Mead water UIC Permit No.: UNEV94218							
Is there any well name or identification at the wellhead?							
Project/Facility Name: Perchlorate Remdiation - Nevada Environmental Response Trust, Henderson, NV							
Well Location (SectionTR or Lat/Long): Section 12 T22S - R62E							
City/Valley: Henderson, NV County: Clark							
Sample for (circle one): ※NEXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX							
Reporting Frequency: 🛚 Semi-annually 🔲 Annually 🔲 Other							
WELL or SAMPLE LOCATION INFORMATION							
(Note: If sample location is not a well (e.g. spring), please provide all relevant data on sample location in the space below)							
Well Type: WYGYEAYDYGAYGEGYIXXXXXXIX XAGAAAAGYXX GEO-Injection GEXXYDYGYEAYAYAYAAAAAAAAAAAAAAAAAAAAAAAAAAAA							
Completion date of well: NA							
Diameter of casing: NA Type of Casing: Steel PVC Other: ABS Plastic							
Total depth of well: ~ 4 foot to horizontal distribution piping							
Bottom depth of cement for last cemented casing string: NA							
Screened or open hole interval (top/bottom depths): NA							
STATUS OF WELL							
Condition or Activity of well during past week/month, prior to sampling: operating normally							
Discuss any field conditions the Division should be aware of with regard to this sample:							
both samples (July 15, 2010 and October 4, 2010 taken during normal operationsi							
Was the well secured upon arrival?							
Was there any problems or damage to the well upon arrival ☐ YES 图 NO							
Was well in an artesian condition prior to sampling? : ☐ YES ᡯ NO							
WATER LEVEL – WELL GAUGING							
Last date well gauged (mm/dd/yy): NA Depth to water - last event: NA							
Method used to gauge well?: 松冷水水浴 不致於 Measure NA							
Measured Water Level: NA							



Nevada Division of Environmental Protection **Bureau of Water Pollution Control**



Underground Injection Control Program 901 S. Stewart St Ste 4001 Carson City Nevada 89701 Ph: 775-687-9418 Fx: 775-687-4684

UIC Form U230 – Field Sampling & Monitoring Summary

SAMPLING INFORMATION										
Date sample collected (mm/dd/yy) : 01-03-11 and 04-04-11	Date sample collected (mm/dd/yy): 01-03-11 and 04-04-11 Time Sampled: morning									
Name of Sampler : Veolia Water NA operator										
Location sample taken (be specific) "sample port at the remedial process ~ 200 ft from injection point in pipeline 10 feet from wellhead":										
Type of Sample (circle one): Grab Xxxxxxxxxxx other (specify):										
Collection method (circle one):										
How much fluid (gallons or well volumes) was discharged / purged be	fore collecting sample? : ~ 1 gallon - this is an active supply line									
Filtering Note: UIC requirements specify water samples shall be filtered with a 1.0 micron filter, not 0.45 micron. If a	nall not be filtered, unless previously approved. If filtration is approved, sample approved, document date of approval:									
Was the sample filtered? : ☐ YES ☑ NO										
Was conductivity measured during discharge to establish stabilized co	onditions? YES NO this is an active water supply line									
Was decontamination procedures (reference O & M?) followed during sampling of multiple wells										
FIELD MEASUREMENTS										
pH : S. Conductivity : Temperature :										
What UIC Sample List is <u>required</u> :	以XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX									
** Other constituent listed must have prior UIC approval before	using									
Were any holding times exceeded?	pH ☐ YES ☐ NO									
In Final sample documentation, ensure all results are reported windicate detection limit value.	ith appropriate units. If measurements are below detection limits,									
DO NOT REPORT VALUES AS NON-DETECT OR ND, INST	EAD REPORT as <(Detection Limit Value)									
FORM P	REPARATION									
Project Manager: Susan Crowley										
Company: Crowley Environmental on behalf of Trust										
Telephone No.: 702-592-7727 eMail Address: smcrowley@cox.net										
Signature: Date: January 24, 2011										
Qualified Sample Person: Michele Brown										
Company: Veolia Water NA										
Telephone No.: 702-289-5533	eMail Address: michele.brown@veoliawaterna.com									
Signature:	Date:									

Attachments:

ATTACHMENT 2

Groundwater Monitoring

Analytical Information (Analytical reports included on Attachment 3 CD)



C:\SMC\My
Documents\Excel Spr

Water Levels - 1st and 2nd Quarter 2011



UIC Monitoring Wells.xlsx



UIC Monitorin

Summary of Monitoring Well Information



Form U230 - Monitor Wells - 7-12-11.pdf

Sample Information Form for Monitoring Wells

Tronox LLC Henderson, Nevada Facility

UIC PERMIT MONITORING WELLS QUARTERLY GROUNDWATER ELEVATIONS (feet)

	M-	25	M	-38	M-	-80	M	-79	M-	-86	M-9	95 *	M	-96	M	-98	M	-99	M-	100	M-	102
Date	TOC: 1	759.93	TOC:	759.73	TOC:	1746.04	TOC:	1740.21	TOC: 1	1744.23	TOC: 1	693.49	TOC:	1693.49	TOC:	1731.91	TOC:	1730.74	TOC:	730.93	TOC: 1	1740.24
	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	DTW	ELEV	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			11.62	1681.9	33.02	1698.88	30.53	1700.21	28.83	1702.1	39.18	1701.06
Feb-05	31.96	1727.97	30.41	1729.32	27.16	1718.89	27.04	1715.49	25.39	1718.84			10.2	1683.32	32.97	1698.93	29.96	1700.78	27.98	1702.95	37.73	1702.51
May-05	32.73	1727.2	30.77	1728.96	27.62	1718.43	27.73	1714.8	28.73	1715.5			10.89	1682.63	32.98	1698.92	30.09	1700.65	28.47	1702.46	39.44	1700.8
Aug-05	30.24	1729.69	30.11	1729.62	27.38	1718.67	26.53	1716	26.18	1718.05			9.79	1683.73	30.81	1701.09	28.74	1702	26.71	1704.22	36.51	1703.73
Nov-05	31.09	1728.84	30.28	1729.45	25.51	1720.54	26.1	1716.43	27.98	1716.25			9.75	1683.77	30.4	1701.5	28.3	1702.44	26.22	1704.71	36.14	1704.1
Feb-06	30.93	1729.00	30.35	1729.38	25.33	1720.72	25.48	1717.05	29.23	1715			10.1	1683.42	29.95	1701.95	27.97	1702.77	26	1704.93	36.48	1703.76
May-06	31.15	1728.78	30.51	1729.22	24.61	1721.44	25.13	1717.4	29.34	1714.89			10.03	1683.49	28.66	1703.24	27.85	1702.89	25.98	1704.95	36.91	1703.33
Aug-06	32.06	1727.87	31.65	1728.08	24.97	1721.08	26.12	1716.41	29.24	1714.99			10.1	1683.42	29.9	1702	27.89	1702.85	26.02	1704.91	37.33	1702.91
Nov-06	32.18	1727.75	31.01	1728.72	25.84	1720.21	26.09	1716.44	29.89	1714.34			9.93	1683.59	30	1701.9	27.97	1702.77	26.27	1704.66	37.66	1702.58
Feb-07	32.56	1727.37	31.03	1728.7	27.31	1718.74	26.75	1715.78	30	1714.23			10.25	1683.27	29.93	1701.97	28.07	1702.67	26.21	1704.72	37.76	1702.48
May-07	32.97	1726.96	31.13	1728.6	29.06	1716.99	27.59	1714.94	31.09	1713.14			10.2	1683.32	30.11	1701.79	28.32	1702.42	26.77	1704.16	38.05	1702.19
Aug-07	33.44	1726.49	31.43	1728.3	31.46	1714.59	29.42	1713.11	32.51	1711.72			10.47	1683.05	28.71	1703.19	29.57	1701.17	28.66	1702.27	39.38	1700.86
Nov-07	33.97	1725.96	31.54	1728.19	31.9	1714.15	30.05	1712.48	34.13	1710.1			10.37	1683.15	33.13	1698.77	31.34	1699.4	30.47	1700.46	40.67	1699.57
Feb-08	33.82	1726.11	31.52	1728.21	32.92	1713.13	30.63	1711.9	35.19	1709.04			11.32	1682.2	33.29	1698.61	32.68	1698.06	33.72	1697.21	41.99	1698.25
May-08	33.82	1726.11	31.46	1728.27	24.91	1721.14	25.66	1716.87	32.33	1711.9			11.86	1681.66	33.19	1698.71	33.6	1697.14	32.72	1698.21	42.05	1698.19
Aug-08	33.64	1726.29	31.37	1728.36	25.15	1720.9	23.45	1719.08	damaged	-			10.46	1683.06	33.38	1698.52	31.92	1698.82	30.77	1700.16	43.31	1696.93
Nov-08	33.68	1726.25	31.37	1728.36	28.35	1717.7	24.96	1717.57	п.	*	12.62	1680.87	12.68	1680.84	33.1	1698.8	31.17	1699.57	30.42	1700.51	43.23	_ 1697.01
Feb-09	33.61	1726.32	31.3	1728.43	29.77	1716.28	26.5	1716.03		-	12.63	1680.86	12.76	1680.76	dry	-	31.58	1699.16	30.81	1700.12	43.11	1697.13
May-09	33.58	1726.35	31.37	1728.36	31.58	1714.47	28.33	1714.2		-	12.75	1680.74	12.85	1680.67	dry	-	31.9	1698.84	31.27	1699.66	43.21	1697.03
Aug-09	33.52	1726.41	31.19	1728.54	28.98	1717.07	26.73	1715.8		-	damaged	-	13.02	1680.5	dry	-	32.66	1698.08	32.79	1698.14	43.45	1696.79
Nov-09	33.27	1726.66	30.97	1728.76	26.14	1719.91	23.96	1718.57		-	13.29	1680.2	13.35	1680.17	dry	-	31.44	1699.3	30.23	1700.7	43.51	1696.73
Feb-10	33.28	1726.65	30.94	1728.79	24.31	1721.74	23.00	1719.53		-	12.91	1680.58	12.99	1680.53	dry	-	30.31	1700.43	29.21	1701.72	43.31	1696.93
May-10	32.48	1727.45	30.92	1728.81	23.28	1722.77	21.78	1720.75		-	12.22	1681.27	12.35	1681.17	dry	-	29.32	1701.42	27.72	1703.21	43.12	1697.12
Aug-10	32.98	1726.95	31.05	1728.68	23.94	1722.11	21.94	1720.59		-	12.19	1681.3	12.41	1681.11	dry	-	28.68	1702.06	26.93	1704	42.46	1697.78
Nov-10	33	1726.93	31.96	1727.77	32.64	1713.41	32.64	1709.89		-	12.14	1681.35	13.3	1680.22	dry	-	28.97	1701.77	27.84	1703.09	damaged	-
Feb-11	33.41	1726.52	31.28	1728.45	35.52	1710.53		-		-	12.23	1681.26	12.47	1681.05	dry	-	30.71	1700.03	inaccessible	1703.09	damaged	-
May-11	33.56	1726.37	31.32	1728.41	35.84	1710.21		-		-	12.83	1680.66	12.91	1680.61	dry	-	34.69	1696.05	33.3	1697.63	damaged	-
		-		-		-		-				-		-	-			-		-		-
		-		-		-		-				-		-				-		=		-
* Manitaria		-		-		-		-		-		-		-		-				-		-

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

UIC Permit UNEV 94218 - 1st Quarter 2011 Monitor Well Analytical Summary

<u>Sampled</u>	Sample ID	<u>Analyte</u>	<u>Result</u>	<u>UNITs</u>	<u>Me.</u>
2/7/2011	M-44	Total Dissolved Solids (TDS)	7200	mg/L	E160.1/SN
2/7/2011	M-44	Perchlorate	510000	ug/L	EPA 314
2/7/2011	M-44	Chromium Total ICAP	0.62	mg/L	EPA 6010
2/7/2011	M-44	Hexavalent chromium (Cr VI)	0.66	mg/L	EPA 7196
2/7/2011	M-44	PH (H3=past HT not compliant)	7.5	Units	EPA 9040
2/7/2011	M-95	Total Dissolved Solids (TDS)	6500	mg/L	E160.1/SM2540C
2/7/2011	M-95	Perchlorate	440000	ug/L	EPA 314.0
2/7/2011	M-95	Chromium Total ICAP	0.8	mg/L	EPA 6010
2/7/2011	M-95	PH (H3=past HT not compliant)	7.4	Units	EPA 9040
2/8/2011	M-99	Total Dissolved Solids (TDS)	4200	mg/L	E160.1/SM2540C
2/8/2011	M-99	Perchlorate	380000	ug/L	EPA 314.0
2/8/2011	M-99	Chromium Total ICAP	0.71	mg/L	EPA 6010
2/8/2011	M-99	PH (H3=past HT not compliant)	7.4	Units	EPA 9040
2/8/2011	M-37	Total Dissolved Solids (TDS)	4000	mg/L	E160.1/SM2540C
2/8/2011	M-37	Perchlorate	1500000	ug/L	EPA 314.0
2/8/2011	M-37	Chromium Total ICAP	0.026	mg/L	EPA 6010
2/8/2011	M-37	Hexavalent chromium (Cr VI)	0.08	mg/L	EPA 7196
2/8/2011	M-37	PH (H3=past HT not compliant)	7.2	Units	EPA 9040
2/9/2011	M-12A	Total Dissolved Solids (TDS)	7000	mg/L	E160.1/SM2540C
2/9/2011	M-12A	Perchlorate	220000	ug/L	EPA 314.0
2/9/2011	M-12A	Chromium Total ICAP	11	mg/L	EPA 6010
2/9/2011	M-12A	Hexavalent chromium (Cr VI)	11	mg/L	EPA 7196
2/9/2011	M-12A	PH (H3=past HT not compliant)	8.3	Units	EPA 9040
2/9/2011	M-11	Total Dissolved Solids (TDS)	3100	mg/L	E160.1/SM2540C
2/9/2011	M-11	Perchlorate	29000	ug/L	EPA 314.0
2/9/2011	M-11	Chromium Total ICAP	2.9	mg/L	EPA 6010
2/9/2011	M-11	Hexavalent chromium (Cr VI)	2.9	mg/L	EPA 7196
2/9/2011	M-11	PH (H3=past HT not compliant)	7.9	Units	EPA 9040
2/10/2011	M-36	Total Dissolved Solids (TDS)	17000	mg/L	E160.1/SM2540C
2/10/2011	M-36	Perchlorate	1500000	ug/L	EPA 314.0
2/10/2011	M-36	Chromium Total ICAP	30	mg/L	EPA 6010
2/10/2011	M-36	Hexavalent chromium (Cr VI)	31	mg/L	EPA 7196
2/10/2011	M-36	PH (H3=past HT not compliant)	7.2	Units	EPA 9040

UIC Permit UNEV 94218 - 2nd Quarter 2011 - Monitoring Well Analytical Summary

Sample Date	Sample ID	<u>Analyte</u>	Result	<u>Units</u>	MRL	<u>Units</u>	Method
5/13/2011	M-11	Total Dissolved Solids (TDS)	2700	mg/L	10	mg/L	E160.1/SM2540C
5/13/2011	M-11	Nitrate as Nitrogen by IC	2.9	mg/L	0.013	mg/L	EPA 300.0
5/13/2011	M-11	Nitrate as NO3 (calc)	13	mg/L	0.055	mg/L	EPA 300.0
5/13/2011	M-11	Perchlorate	25000	ug/L	4	ug/L	EPA 314.0
5/13/2011	M-11	Chromium Total ICAP	2.4	mg/L	0.01	mg/L	EPA 6010
5/13/2011	M-11	Hexavalent chromium (Cr VI)	2.1	mg/L	0.005	mg/L	EPA 7196
5/13/2011	M-11	рН	8	Units	0.1	Units	EPA 9040
5/13/2011	M-11	Chlorate by IC	320000	ug/L	10	ug/L	EPA 9056
5/13/2011	M-11	Nitrate as Nitrogen by IC	2.9	mg/L	0.013	mg/L	EPA 9056
5/13/2011	M-11	Nitrate as NO3 (calc)	13	mg/L	0.055	mg/L	EPA 9056
5/12/2011	M-12A	Total Dissolved Solids (TDS)	7100	mg/L	10	mg/L	E160.1/SM2540C
5/12/2011	M-12A	Perchlorate	250000	ug/L	4	ug/L	EPA 314.0
5/12/2011	M-12A	Chromium Total ICAP	11	mg/L	0.01	mg/L	EPA 6010
5/12/2011	M-12A	Hexavalent chromium (Cr VI)	11	mg/L	0.005	mg/L	EPA 7196
5/12/2011	M-12A	рН	8.2	Units	0.1	Units	EPA 9040
5/12/2011	M-12A	Chlorate by IC	2300000	ug/L	10	ug/L	EPA 9056
5/12/2011	M-12A	Nitrate as Nitrogen by IC	ND	mg/L	0.013	mg/L	EPA 9056
5/12/2011	M-36	Total Dissolved Solids (TDS)	15000	mg/L	10	mg/L	E160.1/SM2540C
5/12/2011	M-36	Perchlorate	1700000	ug/L	4	ug/L	EPA 314.0
5/12/2011	M-36	Chromium Total ICAP	30	mg/L	0.01	mg/L	EPA 6010
5/12/2011	M-36	Hexavalent chromium (Cr VI)	30	mg/L	0.005	mg/L	EPA 7196
5/12/2011	M-36	рН	7.5	Units	0.1	Units	EPA 9040
5/12/2011	M-36	Chlorate by IC	7900000	ug/L	10	ug/L	EPA 9056
5/12/2011	M-36	Nitrate as Nitrogen by IC	ND	mg/L	0.013	mg/L	EPA 9056
5/9/2011	M-37	Total Dissolved Solids (TDS)	4000	mg/L	10	mg/L	E160.1/SM2540C
5/9/2011	M-37	Perchlorate	1500000	ug/L	4	ug/L	EPA 314.0
5/9/2011	M-37	Chromium Total ICAP	0.025	mg/L	0.01	mg/L	EPA 6010
5/9/2011	M-37	Hexavalent chromium (Cr VI)	ND	mg/L	0.005	mg/L	EPA 7196
5/9/2011	M-37	рН	7.2	Units	0.1	Units	EPA 9040
5/9/2011	M-37	Chlorate by IC	350000	ug/L	10	ug/L	EPA 9056
5/9/2011	M-37	Nitrate as Nitrogen by IC	120	mg/L	0.1	mg/L	EPA 9056
5/5/2011	M-44	Total Dissolved Solids (TDS)	7100	mg/L	10	mg/L	E160.1/SM2540C
5/5/2011	M-44	Perchlorate	480000	ug/L	4	ug/L	EPA 314.0
5/5/2011	M-44	Chromium Total ICAP	0.57	mg/L	0.01	mg/L	EPA 6010
5/5/2011	M-44	Hexavalent chromium (Cr VI)	0.59	mg/L	0.005	mg/L	EPA 7196
5/5/2011	M-44	рН	7.5	Units	0.1	Units	EPA 9040
5/4/2011	M-95	Total Dissolved Solids (TDS)	6700	mg/L	10	mg/L	E160.1/SM2540C
5/4/2011	M-95	Perchlorate	440000	ug/L	4	ug/L	EPA 314.0
5/4/2011	M-95	Chromium Total ICAP	0.8	mg/L	0.01	mg/L	EPA 6010
5/4/2011	M-95	Hexavalent chromium (Cr VI)	0.82	mg/L	0.005	mg/L	EPA 7196
5/4/2011	M-95	рН	7.6	Units	0.1	Units	EPA 9040



Nevada Division of Environmental Protection Bureau of Water Pollution Control Underground Injection Control Program 901 S. Stewart St Ste 4001

Carson City Nevada 89701 Ph: 775-687-9418 Fx: 775-687-4684



UIC Form U230 - Field Sampling & Monitoring Summary

This form is to be completed in the field while sampling to document the sampling location facts and events, and submitted with the sample results.

Sample Date: (mm/dd/yy) 02-07-11 and 05-04-11

Complete All Applicable Blanks - Water samples can be rejected if information not provided.

FACILITY AND PERMIT INFORMATION						
Well Name & No.: M-11, M-12A, M-36, M-37, M-44, 84, M-95, M-100 UIC Permit No.: UNEV 94218						
Is there any well name or identification at the wellhead?						
Project/Facility Name: Perchlorate Remdiation - Nevada Environmental Response Trust, Henderson, NV						
Well Location (SectionTR or Lat/Long): Section 12 T22S - R62E						
City/Valley: Henderson, NV County: Clark						
Sample for (circle one): XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX						
Reporting Frequency: 🛚 Semi-annually 🔲 Annually 🔲 Other						
WELL or SAMPLE LOCATION INFORMATION						
(Note: If sample location is not a well (e.g. spring), please provide all relevant data on sample location in the space below)						
Well Type: Water/Dorrests XXVIX Monitoring SES-Prox SES-XXIJE 2165						
Completion date of well: 1983 to 1997						
Diameter of casing: 2 inch Type of Casing: XXXX PVC Other:						
Total depth of well: ~ 45 foot						
Bottom depth of cement for last cemented casing string: NA						
Screened or open hole interval (top/bottom depths): ~ bottom 20 foot						
STATUS OF WELL						
Condition or Activity of well during past week/month, prior to sampling: operating normally						
Discuss any field conditions the Division should be aware of with regard to this sample:						
both month's samples taken during normal operationsi						
Was the well secured upon arrival?						
Was there any problems or damage to the well upon arrival ☐ YES ☑ NO						
/as well in an artesian condition prior to sampling? : ☐ YES ☒ NO						
WATER LEVEL – WELL GAUGING						
Last date well gauged (mm/dd/yy) : sample date - 05-13-11 Depth to water - last event:						
Method used to gauge well?: 必為於學孫於 不對於例為多於於 NA						
Measured Water Level : DTW M-11=43.81', M-36=31.96', M-37=31.45', M-44=19.32', M-84=24.49', M-95=12.14', M-100=27.84						
·						



Nevada Division of Environmental Protection Bureau of Water Pollution Control Underground Injection Control Program

901 S. Stewart St Ste 4001 Carson City Nevada 89701 Ph: 775-687-9418 Fx: 775-687-4684



UIC Form U230 - Field Sampling & Monitoring Summary

	SAMPLING	G INFORMA	ATION		
Date sample collected (mm/dd/yy) :	02-07-11 and 05-4-11	T	ime Sampled :	daylight	
Name of Sampler : Veolia Wat	er NA operator				
Location sample taken (be specific) "s in pipeline 10 feet from wellhead" :	sample port monitor well hear	d			
Type of Sample (circle one) : Grat	o XXXXXXXXX other (specify):			
Collection method (circle one) : 🛛 💥	ekk গ্রমাঞ্চল water pumped শ্রম	and wolftises	Alk sagy		
How much fluid (gallons or well volum	es) was discharged / purged be	fore collecting sa	ample?:	~ three casing vo	olumes
	ements specify water samples <u>shader</u> nicron filter, not 0.45 micron. If a				f filtration is approved, sample
Was the sample filtered? :	☐ YES ☑ NO				¥ .
Was conductivity measured during dis	scharge to establish stabilized co	onditions?	YES NO	this is an active	water supply line
Was decontamination procedures (ref	erence O & M?) followed during	YES	□ NO		
FIELD MEASUREMENTS					
pH : S. Conductivity : Temperature :					
What UIC Sample List is <u>required</u> :	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXX	sk8 C	ther**: <u>Cr, Cr+6,</u>	, perchlorate, TDS
** Other constituent listed mus	t have prior UIC approval before	using			
Were any holding times exceeded?					☐ YES 🗵 NO
In Final sample documentation, en indicate detection limit value.	sure all results are reported w	ith appropriate	units. If measu	rements are be	low detection limits,
DO NOT REPORT VALUES AS I	NON-DETECT OR ND, INSTI	EAD REPORT	as <(Detection	n Limit Value)	
	FORM P	REPARATI	ON		
Project Manager: Susan Crowley					
Company: Crowley Environment	al on behalf of Tronox LLC				
Telephone No.: 702-592-7727		eMail Address: smcrowley@cox.net			
Signature:		Date: Jul	ly 12, 2011		
Qualified Sample Person: Mich	ele Brown		х		
Company: Veolia Water NA	1				
Telephone No.: 702-289-5533		eMail Address:	michele.brov	vn@veoliawaterr	na.com
Signature:		Date:			

Attachments:

Tronox LLC Henderson, Nevada Facility

UIC PERMIT UNEV 94218 EXTRACTION AND INJECTION RATES (gpm)

MONTH	EXTRATION RATE	INJECTION RATE (gpm)				
	(gpm)					
	Monthly Average	Monthly Average	Daily High	Daily Low		
January 2011	69.3	0	0	0		
February 2011	67.3	0	0	0		
March 2011	65.0	0	0	0		
April 2011	67.1	0	0	0		
May 2011	65.4	0	0	0		
June 2011	66.2	0	0	0		

ATTACHMENT 3

Supporting Electronic Analytical Reports
UIC Permit UNEV 94218 Report – 1st and 2nd Q 2011

I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein, exceptions and corresponding justifications are provided below.

Susan/Crowley CEM 1428, expires 3-8-13

7/15/11 Date

ATTACHMENT 4





Potentiometric Potentiometric Surface Map - 1st Q 1Surface Map - 2nd Q

Potentiometric Surface Maps



