TM Corpus Christi Services LP

WASTE PROFILE DOCUMENT

TM Corpus Christi Services LP 6901 Greenwood P.O. Box 7809 Corpus Christi, TX 78467 361/852-8284 Fax: 361/852-3167

CUSTOMER INFORMATION:

Company Name: Specialized Industrial Services, Inc.
Mailing Address: 14150 Vine Place
City: Cerritos
State: California Zip: 90703
Contact: Patrick Tamez
Phone: 562-921-9974 Fax: 562-381-9139
EMAIL: patrick@ecologysis.com

GENERATOR INFORMATION:

Company Name: Encycle/Texas, Inc.
Physical Address: 5500 Up River Road
City: Corpus Christi
State: Texas Zip: 78403
24 Hour Contact: Mike Lindstrom
24 Hour Phone: 512-633-6143

WASTE GENERATION DATA:

Waste Name: Wastewater from closure, corrective action
Describe the process that generates this waste: Wastewater in non-listed tanks undergoing closure, corrective action

USEPA ID No. TXD008117186
Texas Gen. ID No. 30003 **SIC#** 4953
Texas Waste Code 004511 4H

Annual Volume: 216,000 [ ] lbs [ ] tons [x] gals [ ] drums/Container Size Vacuum Truck Shipping Frequency 1+ per day

RCRA DATA:

EPA Hazardous Waste Codes (40 CFR, Part 261, Subpart C & D) **If D Codes apply, UHC Form must be included with profile.**

Is waste hazardous per RCRA? [x] Yes [ ] No D006

Is this a characteristically Hazardous Waste or a residue from the treatment of characteristically Hazardous Waste? [ ] Yes-Underlying Constituent Form Att. [ ] No

WASTE PROPERTIES:

(a) pH Range: 6 to 10
(b) Sp. Gravity 0.98 to 1.02
(c) Percent Settled Solids (by vol.): <0.001 to 2
(d) Percent Insoluble Organics (by vol.): 0 to 0
(e) Describe Appearance (e.g. yellow, clear, turbid, etc.): clear
(f) Odor: [ ] Strong [ ] Mild [x] None
(g) Describe Odor (acrid, rancid, etc.): none
(h) Heating Value (BTU/LB or other): NA
(i) Physical State: [ ] Solid [x] Liquid [ ] Semi-Solid [ ] Other
(j) Flash Point: >200 [x] deg. F [ ] deg. C [ ] Closed Cup [ ] Open Cup
(k) Phases/layers: [x] Single [ ] Bilayered
[ ] Multilayered (Top ____ % Middle ____ % Bottom ____ %)
(l) Viscosity: water centipoises
(m) Dry Weight Factor:
(n) Vapor Pressure (PSI)

Does Waste Contain Any Of The Following? * If yes, please indicate concentration under components below.

	Yes	No		Yes	No		Yes	No	HEADSPACE AMOUNT
Benzene NESHAP Regulated		x	Pesticides *		x				
Pyrophoric		x	TCLP organics *		x				
Sulfides		x	PCB's > 50 ppm		x	Hydrogen Cyanide*		x	
Hydrophoric		x	Explosives		x	Hydrogen Sulfide*		x	
Biological Materials, Etiological Agents, Radioactive Materials					x	Sulfur Dioxide*		x	
Pathogens, Infectious Agents, Carcinogens, Dioxins					x	Other Toxic Gas*		x	
OSHA Listed Compounds*									

COMPONENTS:

Account for 100% of the waste components.

	RANGE (% or PPM)	TRI REPORTING CAS NO.	AVERAGE
water	99.9 to 100%		
cadmium	11.9 to ppm		
copper	37.4 to ppm		
nickel	20.6 to ppm		
zinc	396 to ppm		
	to		
	to		
	to		
	to		

METALS (TCLP)
(DESIGNATE CONCENTRATION, PPM)

Arsenic	0.167 ppm	Manganese	____ ppm
Barium	0.428 ppm	Mercury	0.000 ppm
Chromium	0.059 ppm	Nickel	20.6 ppm
Cadmium	11.9 ppm	Selenium	0.028 ppm
Copper	37.4 ppm	Silver	0.002 ppm
Lead	0.487 ppm	Thallium	0.032 ppm
		Zinc	396 ppm

Waste analysis data attached: [x] Yes [ ] No Number of Additional Pages: ___ Waste Properties determined by: Process Knowledge [x] Waste Analysis [x]

SHIPPING INFORMATION: (49 CFR 172.101) Proper DOT Shipping Name: RQ,NA3082, Hazardous Waste Liquid, N.O.S. (CADMIUM),9,PGIII

DOT Hazard Class: UN/NA Number: 3082 Packing Group: III Reportable Qty.:

Method of Shipment (s): [x] Bulk Liquids [ ] Bulk Solids [ ] 15 Yard Box [ ] Drums [ ] Totes
[x] Other: Vacuum truck

Required personnel protective equipment & procedures:

Other comments or hazards including effects on human health in the event of a release:
See attached analytical results - water samples TestAmerica Job Number: 560-18286-1.

I hereby certify and warrant that the information supplied on this form and on any attachments or supplements represents a complete and accurate identification and description of this waste material, its constituents and its known or suspected hazards. I further certify and warrant that this information is the result of an analysis of a representative sample of the waste obtained and analyzed in accordance with testing procedures of the U.S. Environmental Protection Agency or by the application of knowledge of the process generating the waste materials.

SIGNATURE: Mike Lindstrom TITLE: Trust Tech DATE: 1/11/2011

TABLE 2
UNIVERSAL TREATMENT STANDARDS - HAZARDOUS CONSTITUENT FORM (40 CFR Section 268.48)

Generator Name Encycle/Texas, Inc. **Manifest Number** _____

Waste Stream Name Wastewater from closure, corrective action **TM Corpus Christi Services Limited Partnership WS#** _____

All characteristic wastes (EPA Codes D001 through D043) must be treated for Underlying Hazardous Constituents. If your waste has any of these codes and contains any of the following constituents you are required by law to represent this fact to TM Corpus Christi Services by checking the applicable constituents listed below. You must then complete the TM Corpus Christi Services Land Disposal Restriction Notification form to specify how your waste must be managed (Sec. 268.7)

Does this waste contain one or more of the constituents listed on pages 1, 2 or 3? YES X NO ☐ If "Yes", check applicable constituents and then sign and date the form. If "No", then sign and date the form.

✓	Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
	I. Organic Constituents			
	2-Acetylaminofluorene	53-96-3	0.059	140
	4-Aminobiphenyl	92-67-1	0.13	NA
	A2213 [6]	30558-43-1	0.042	1.4
	Acenaphthene	83-32-9	0.059	3.4
	Acenaphthylene	208-96-8	0.059	3.4
	Acetone	67-64-1	0.28	160
	Acetonitrile	75-05-8	5.6	38
	Acetophenone	96-86-2	0.01	9.7
	Acrolein	107-02-8	0.29	NA
	Acrylamide	79-06-1	19	23
	Acrylonitrile	107-13-1	0.24	84
	Aldicarb sulfone [6]	1646-88-4	0.056	0.28
	Aldrin	309-00-2	0.021	0.066
	alpha-BHC	319-84-6	0.00014	0.066
	Aniline	62-53-3	0.81	14
	Anthracene	120-12-7	0.059	3.4
	Aramite	140-57-8	0.36	NA
	2-sec-Butyl-4,6-dinitrophenol (Dinoseb)	88-85-7	0.066	2.5
	4-Bromophenyl phenyl ether	101-55-3	0.055	15
	Barban [6]	101-27-9	0.056	1.4
	Bendiocarb [6]	22781-23-3	0.056	1.4
	Bendiocarb phenol [6]	22961-82-6	0.056	1.4
	Benomyl [6]	17804-35-2	0.056	1.4
	Benz(a)anthracene	56-55-3	0.059	3.4
	Benzal chloride	98-87-3	0.055	6
	Benzene	71-43-2	0.14	10
	Benzo(a)pyrene	50-32-8	0.061	3.4
	Benzo(b)fluoranthene	205-99-2	0.11	6.8
	(difficult to distinguish from benzo(k)fluoranthene)			
	Benzo(g,h,i)perylene	191-24-2	0.0055	1.8
	Benzo(k)fluoranthene	207-08-9	0.11	6.8
	(difficult to distinguish from benzo(b)fluoranthene)			
	beta-BHC	319-85-7	0.00014	0.066
	bis(2-Chloroisopropyl)ether	39638-32-9	0.055	7.2
	bis(2-Ethylhexyl) phthalate	117-81-7	0.28	28
	bis-(2-Chloroethoxy)methane	111-91-1	0.036	7.2
	bis-(2-Chloroethyl)ether	111-44-4	0.033	6
	Bromodichloromethane	75-27-4	0.35	15
	Bromoform (Tribromomethane)	75-25-2	0.63	15
	Bromomethane/Methyl bromide	74-83-9	0.11	15
	Butyl benzyl phthalate	85-68-7	0.017	28
	Butylate [6]	2008-41-5	0.042	1.4
	2-chloro-1,3-butadiene	126-99-8	0.057	0.28
	2-Chloroethyl vinyl ether	110-75-8	0.062	NA
	2-Chloronaphthalene	91-58-7	0.055	5.6
	2-Chlorophenol	95-57-8	0.044	5.7
	3-Chloropropylene	107-05-1	0.036	30
	Carbaryl [6]	63-25-2	0.006	0.14
	Carbenzadim [6]	10605-21-7	0.056	1.4
	Carbofuran [6]	1563-66-2	0.006	0.14
	I. Organic Constituents (Continued)			
	Diphenylnitrosamine	86-30-6	0.92	13

✓	Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
	Carbofuran phenol [6]	1563-38-8	0.056	1.4
	Carbon disulfide	75-15-0	3.8	4.8mg/l
	Carbon tetrachloride	56-23-5	0.057	6
	Carbosulfan [6]	55285-14-8	0.028	1.4
	Chlordane (alpha and gamma isomers)	57-74-9	0.0033	0.26
	Chlorobenzene	108-90-7	0.057	6
	Chlorobenzilate	510-15-6	0.1	NA
	Chlorodibromomethane	124-48-1	0.057	15
	Chloroethane	75-00-3	0.27	6
	Chloroform	67-66-3	0.046	6
	Chloromethane (Methyl chloride)	74-87-3	0.19	30
	Chrysene	218-01-9	0.059	3.4
	m-Cresol (difficult to distinguish from p-cresol)	108-39-4	0.77	5.6
	m-Cumenyl methylcarbamate [6]	64-00-6	0.056	1.4
	cis-1,3-Dichloropropylene	10061-01-5	0.036	18
	Cycloate [6]	1134-23-2	0.042	1.4
	Cyclohexanone	108-94-1	0.36	0.75 mg/l TCLP
	1,1-Dichloroethane	75-34-3	0.059	6
	1,1-Dichloroethylene	75-35-4	0.025	6
	1,2-Dibromo-3-chloropropane	96-12-8	0.11	15
	1,2-Dichloroethane	107-06-2	0.21	6
	trans-1,2-Dichloroethylene	156-60-5	0.054	30
	1,2-Dichloropropane	78-87-5	0.85	18
	1,2-Diphenylhydrazine	122-66-7	0.087	NA
	trans-1,3-Dichloropropylene	10061-02-6	0.036	18
	1,4-Dinitrobenzene	100-25-4	0.32	2.3
	1,4-Dioxane	123-91-1	12	170
	2,4-Dichlorophenol	120-83-2	0.044	14
	2,4-Dichlorophenoxyacetic acid/2,4-D	94-75-7	0.72	10
	2,4-Dinitrophenol	51-28-5	0.12	160
	2,4-Dinitrotoluene	121-14-2	0.32	140
	2,6-Dichlorophenol	87-65-0	0.044	14
	2,6-Dinitrotoluene	606-20-2	0.55	28
	2-4-D (2,4-Dichlorophenoxyacetic acid)	94-75-7	0.72	10
	2-4-Dimethyl phenol	105-67-9	0.036	14
	4,6-Dinitro-o-cresol	534-52-1	0.28	160
	delta-BHC	319-86-8	0.023	0.066
	di-n-butyl phthalate	84-74-2	0.057	28
	Di-n-octyl phthalate	117-84-0	0.017	28
	Di-n-propylnitrosamine	621-64-7	0.4	14
	Dibenz(a,e)pyrene	192-65-4	0.061	NA
	Dibenz(a,h)anthracene	53-70-3	0.055	8.2
	Dibromomethane	74-95-3	0.11	15
	Dichlorodifluoromethane	75-71-8	0.23	7.2
	Dieldrin	60-57-1	0.017	0.13
	Diethyl phthalate	84-66-2	0.2	28
	Diethylene glycol, dicarbamate [6]	5952-26-1	0.056	1.4
	Dimethyl phthalate	131-11-3	0.047	28
	Dimetilan [6]	644-64-4	0.056	1.4
	Diphenylamine	122-39-4	0.92	13
	(difficult to distinguish from diphenylnitrosamine)			
	Methyl isobutyl ketone	108-10-1	0.14	33
	Methyl methacrylate	80-62-6	0.14	160

MB Frostee

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UNIVERSAL TREATMENT STANDARDS - HAZARDOUS CONSTITUENT FORM (40 CFR Section 268.48)

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Manifest Number _____

Waste Stream Name Wastewater from closure, corrective action

TM Corpus Christi Services Limited Partnership WS# _____

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✓	Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
	(difficult to distinguish from diphenylamine)			
	Disulfoton	298-04-3	0.017	6.2
	Dithiocarbamates (total) [6]	137-30-4	0.028	28
	Endosulfan I	959-98-8	0.023	0.066
	Endosulfan II	33213-65-9	0.029	0.13
	Endosulfan sulfate	1031-07-8	0.029	0.13
	Endrin	72-20-8	0.0028	0.13
	Endrin aldehyde	7421-93-4	0.025	0.13
	EPTC [6]	759-94-4	0.042	1.4
	Ethyl acetate	141-78-6	0.34	33
	Ethyl benzene	100-41-4	0.057	10
	Ethyl cyanide/propanenitrile	107-12-0	0.24	360
	Ethyl ether	60-29-7	0.12	160
	Ethyl methacrylate	97-63-2	0.14	160
	Ethyl Oxide	75-21-8	0.12	NA
	Ethylene dibromide (1,2-Dibromoethane)	106-93-4	0.028	15
	Famphur	52-85-7	0.017	15
	Fluoranthene	206-44-0	0.068	3.4
	Fluorene	86-73-7	0.059	3.4
	Formetanate hydrochloride [6]	23422-53-9	0.056	1.4
	Formparanate [6]	17702-57-7	0.056	1.4
	gamma-BHC	58-89-9	0.0017	0.066
	Heptachlor	76-44-8	0.0012	0.066
	Heptachlor epoxide	1024-57-3	0.016	0.066
	Hexachlorobenzene	118-74-1	0.055	10
	Hexachlorobutadiene	87-68-3	0.055	5.6
	Hexachlorocyclopentadiene	77-47-4	0.057	2.4
	Hexachloroethane	67-72-1	0.055	30
	Hexachloropropylene	1888-71-7	0.035	30
	HxCDDs (All Hexachlorodibenzo-p-dioxins)	N/A	0.000063	0.001
	HxCDFs (All Hexachlorodibenzofurans)	N/A	0.000063	0.001
	3-Iodo-2-propynyl n-butylcarbamate [6]	55406-53-6	0.056	1.4
	Ideno (1,2,3-c,d) pyrene	193-39-5	0.0055	3.4
	Iodomethane	74-88-4	0.19	65
	Isobutyl alcohol	78-83-1	5.6	170
	Isodrin	465-73-6	0.021	0.066
	Isolan [6]	119-38-0	0.056	1.4
	Isosafrole	120-58-1	0.081	2.6
	Kepone	143-50-0	0.0011	0.13
	3-Methylcholanthrene	56-49-5	0.0055	15
	4,4-Methylene bis (2-chloroaniline)	101-14-4	0.5	30
	m-Dichlorobenzene	541-73-1	0.036	6
	Methacrylonitrile	126-98-7	0.24	84
	Methanol	67-56-1	5.6	0.75 mg/l TCLP
	Methiocarb [6]	2032-65-7	0.056	1.4
	Methomyl [6]	16752-77-5	0.028	0.14
	Methoxychlor	72-43-5	0.25	0.18
	Methapyrilene	91-80-5	0.081	1.5
	Methyl ethyl ketone	78-93-3	0.28	36
	I. Organic Constituents (Continued)			
	Phorate	298-02-2	0.021	4.6
	Phthalic acid	100-21-0	0.055	28

✓	Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
	Methyl methansulfonate	66-27-3	0.018	NA
	Methyl parathion	298-00-0	0.014	4.6
	Methylene chloride	75-09-2	0.089	30
	Metolcarb [6]	1129-41-5	0.056	1.4
	Mexacarbate [6]	315-18-4	0.056	1.4
	Molinate [6]	2212-67-1	0.042	1.4
	MxCDDs (All Hexachlorodiebenzo-p-dioxins)	N/A	0.000063	0.001
	2-Naphthylamine	91-59-8	0.52	NA
	5-Nitro-o-toluidine	99-55-8	0.32	28
	n-Butyl alcohol	71-36-3	5.6	2.6
	N-Nitroso-di-n-butylamine	924-16-3	0.4	17
	N-Nitrosodiethylamine	55-15-5	0.4	28
	N-Nitrosodimethylamine	62-75-9	0.4	2.3
	N-Nitrosomethylethylamine	10595-95-6	0.4	2.3
	N-Nitrosomorpholine	59-89-2	0.4	2.3
	N-Nitrosopiperidine	100-75-4	0.013	35
	N-Nitrosopyrrolidine	930-55-2	0.013	35
	Naphthalene	91-20-3	0.059	5.6
	Nitrobenzene	98-95-3	0.068	14
	o,p-DDD	53-19-0	0.023	0.087
	o,p-DDE	3424-82-6	0.031	0.087
	o,p-DDT	789-02-6	0.0039	0.087
	o-Cresol	95-48-7	0.11	5.6
	o-Dichlorobenzene	95-50-1	0.088	6
	o-Nitroaniline	88-74-4	0.27	14
	o-Nitrophenol	88-75-5	0.028	13
	Oxamyl [6]	23135-22-0	0.056	0.28
	o-Phenylenediamine [6]	95-54-5	0.056	5.6
	p,p-DDD	72-54-8	0.023	0.087
	p,p-DDE	72-55-9	0.031	0.087
	p,p-DDT	50-29-3	0.0039	0.087
	p-Chloro-m-cresol	59-50-7	0.018	14
	p-Chloroaniline	106-47-8	0.46	16
	p-Cresol (difficult to distinguish from m-cresol)	106-44-5	0.77	5.6
	p-Dichlorobenzene	106-46-7	0.09	6
	p-Dimethylaminoazobenzene	60-11-7	0.13	NA
	p-Nitroaniline	100-01-6	0.028	28
	p-Nitrophenol	100-02-7	0.12	29
	Parathion	56-38-2	0.014	4.6
	Pebulate [6]	1114-71-2	0.042	1.4
	PeCDDs (All Pentachlorodibenzo-p-dioxins)	N/A	0.000063	0.001
	PeCDFs (All Pentachlorodiebenzofurans)	N/A	0.000035	0.001
	Pentachlorobenzene	608-93-5	0.055	10
	Pentachloroethane	76-01-7	0.055	6
	Pentachloronitrobenzene	82-68-8	0.055	4.8
	Pentachlorophenol	87-86-5	0.089	7.4
	Phenacetin	62-44-2	0.081	16
	Phenanthrene	85-01-8	0.059	5.6
	Phenol	108-95-2	0.039	6.2
	II. Inorganic Constituents (Continued)			
	Beryllium	7440-41-7	0.82 *	1.22 mg/l TCLP
✓	Cadmium	7440-43-9	0.69 *	0.11 mg/l TCLP

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✓	Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
	Phthalic anhydride	85-44-9	0.055	28
	Physostigmine [6]	57-47-6	0.056	1.4
	Physostigmine salicylate [6]	57-64-7	0.056	1.4
	Promecarb [6]	2631-37-0	0.056	1.4
	Pronamide	23950-58-5	0.093	1.5
	Propham [6]	122-42-9	0.056	1.4
	Propoxur [6]	114-26-1	0.056	1.4
	Prosulfocarb [6]	52888-80-9	0.042	1.4
	Pyrene	129-00-0	0.067	8.2
	Pyridine	110-86-1	0.014	16
	Safrole	94-59-7	0.081	22
	Silvex (2,4,5-TP)	93-72-1	0.72	7.9
	1,1,1,2-Tetrachloroethane	630-20-6	0.057	6
	1,1,1-Trichloroethane	71-55-6	0.054	6
	1,1,2,2-Tetrachloroethane	79-34-5	0.057	6
	1,1,2-Trichloro-2,2,2-trifluoroethane	76-13-1	0.057	30
	1,1,2-Trichloroethane	79-00-5	0.054	6
	1,2,4,5-Tetrachlorobenzene	95-94-3	0.055	14
	1,2,4-Trichlorobenzene	120-82-1	0.055	19
	1,2,3-Trichloropropane	96-18-4	0.85	30
	2,3,4,6-Tetrachlorophenol	58-90-2	0.03	7.4
	2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	93-76-5	0.72	7.9
	2,4,5-Trichlorophenol	95-95-4	0.18	7.4
	2,4,6-Trichlorophenol	88-06-2	0.035	7.4
	TCDDs (All Tetrachlorodibenzo-p-dioxins)	N/A	0.000063	0.001
	TCDFs (All Tetrachlorodibenzofurans)	N/A	0.000063	0.001
	Tetrachloroethylene	127-18-4	0.056	6
	Thiodicarb [6]	59669-26-0	0.019	1.4
	Thiophanate-methyl [6]	23564-05-8	0.056	1.4
	Tirpate [6]	26419-73-8	0.056	0.28
	Toluene	108-88-3	0.08	10
	Total PCBs (sum of all PCB isomers, or all Aroclors)	1336-36-3	0.1	10
	Toxaphene	8001-35-2	0.0095	2.6
	Triallate [6]	2303-17-8	0.042	1.4
	Trichloroethylene	79-01-6	0.054	6
	Trichloromonofluoromethane	75-69-4	0.02	30
	Triethylamine [6]	101-44-8	0.081	1.5
	tris-(2,3-Dibromopropyl) phosphate	126-72-7	0.11	0.1
	Vernolate [6]	1929-77-7	0.042	1.4
	Vinyl chloride	75-01-4	0.27	6
	Xylenes-mixed isomers (sum of o-,m-,and p-xylene concentrations)	1330-20-7	0.32	30

II. Inorganic Constituents

✓	Description	CAS No. [1]	Wastewater mg/l [2]	Non Wastewater mg/kg
✓	Antimony	7440-36-0	1.9 *	1.15 mg/l TCLP
✓	Arsenic	7440-38-2	1.4 *	5.0 mg/l TCLP
✓	Barium	7440-39-3	1.2 *	21.0 mg/l TCLP
✓	Chromium (Total)	7440-47-3	2.77 *	0.60 mg/l TCLP
	Cyanides (Amenable) [4]	57-12-5	0.86	30
✓	Cyanides (Total) [4]	57-12-5	1.2	590
	Fluoride [5]	16984-48-8	35	NA
✓	Lead	7439-92-1	0.69 *	0.75 mg/l TCLP
✓	Mercury - All others	7439-97-6	0.15 *	0.025 mg/l TCLP
	Mercury - Retort nonwastewater	7439-97-6	NA *	0.20 mg/l TCLP
✓	Nickel	7440-02-0	3.98 *	11.0 mg/l TCLP
✓	Selenium	7782-49-2	0.82 *	5.7 mg/l TCLP
✓	Silver	7440-22-4	0.43 *	0.14 mg/l TCLP
	Sulfide	18496-25-8	14	NA
✓	Thallium	7440-28-0	1.4 *	0.2 mg/l TCLP
✓	Vanadium [4]	7440-62-2	4.3 *	1.6 mg/l TCLP
✓	Zinc [5]	7440-66-6	2.61 *	4.3 mg/l TCLP

[1] CAS: Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its salts and/or esters, the CAS number is given for the parent compound only.

[2] Concentration standards for wastewater's are expressed in mg/l and are based on analysis of composite samples

[3] Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration in units operated in accordance with the technical requirements of 40 CFR part 264, supbart O, or 40 CFR part 265, subpart O, or based upon combustion in fuel substitution units operataing in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in 40 CFR 268.40(d). All concentration standards for non-wastewaters are based on analysis of grab samples.

[4] Both Cyanides (Total) and Cyanides (Amenable) for nonwastewaters are to be analyzed using Method 9010 or 9012, found in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846, as incorporated by reference in 40 CFR 260.11, with a sample size of 10 grams and a distillation time of one hour and 15 minutes.

[5] These constituents are not "underlying hazardous constituents" in characteristic wastes, according to the definition at 268.2(i).

[6] Between August 26, 1997 and August 26, 1998, these constituents are not underlying hazardous constituents as defined at 268.2(i).

[59FR 47982,Sept.19,1994; 60 FR 242,Jan.3,1995; 61 FR 15566,Apr.08,1996; 61 FR]

I certify that the above is true and correct and that the submission of a false or misleading certification can lead to the possibility of fines or imprisonment.

Generator Signature _____ Date 1/11/2011

Updated 11/02

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 560-18286-1

SDG Number: CC001188.0004/December 2009

Job Description: ENCYCLE - Corpus Christi

For:
ARCADIS U.S., Inc.
711 North Carancahua
Suite 1700
Corpus Christi, TX 78475

Attention: Mr. Ken Brandner

Approved for release.
Timothy L. Kellogg
Project Manager II
12/23/2009 1:38 PM

Timothy L. Kellogg
Project Manager II
tim.kellogg@testamericainc.com
12/23/2009

The test results entered in this report meet all NELAC requirements for accredited parameters. Any exceptions to NELAC requirements are noted in the report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Corpus Christi Certifications and Approvals: NELAC TX T104704210-TX, NELAC KS E-10362, Oklahoma 9968, USDA Soil Permit P330-08-00033.

Job Narrative
560-18286-1

Receipt

All samples were received in good condition within temperature requirements.

Metals

Method(s) 6020: It was noted that some of the matrix spike and matrix spike duplicate (MS/MSD) recoveries for 560-18286-2 were outside of the control limits. Matrix interferences inherent to the sample are suspected to be the cause of the recoveries. The laboratory control standard (LCS) recoveries were acceptable therefore the data was reported. No other analytical or quality issues were noted.

General Chemistry

Method(s) 9040C: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. All associated samples have been qualified with the "HF" flag to indicate they were performed in the laboratory outside the 15 minute time frame. No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
560-18286-1	**TANK #6**					
Cyanide, Total		33600	B	4820	ug/Kg	9012A
pH		6.25		0.100	SU	9045D
Percent Moisture		69		0.010	%	Moisture
Percent Solids		31		0.010	%	Moisture
TCLP						
Antimony		0.00608		0.00500	mg/L	6020
Arsenic		0.0766		0.00500	mg/L	6020
Barium		0.428		0.00500	mg/L	6020
Cadmium		4.57		0.00250	mg/L	6020
Chromium		0.0581		0.00500	mg/L	6020
Copper		37.4		0.00500	mg/L	6020
Lead		0.343		0.00500	mg/L	6020
Nickel		2.67		0.00500	mg/L	6020
Selenium		0.00900		0.00500	mg/L	6020
Thallium		0.0317		0.00250	mg/L	6020
Vanadium		0.00332	J	0.00500	mg/L	6020
Zinc		177		0.0250	mg/L	6020
560-18286-2	**TANK #18**					
Antimony		0.0147		0.00500	mg/L	6020
Arsenic		0.00826		0.00500	mg/L	6020
Barium		0.0680		0.00500	mg/L	6020
Cadmium		11.9		0.0500	mg/L	6020
Chromium		0.0115		0.00500	mg/L	6020
Copper		3.80		0.100	mg/L	6020
Lead		0.282		0.00500	mg/L	6020
Nickel		20.6		0.100	mg/L	6020
Selenium		0.0276		0.00500	mg/L	6020
Thallium		0.00935		0.00250	mg/L	6020
Vanadium		0.00210	J	0.00500	mg/L	6020
Zinc		251		12.5	mg/L	6020
Cyanide, Total		4.82	J B	10.0	ug/L	9012A
pH		6.02	HF	0.100	SU	9040C

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
560-18286-3	**TANK #13**					
Antimony		0.00842		0.00500	mg/L	6020
Arsenic		0.167		0.00500	mg/L	6020
Barium		0.169		0.00500	mg/L	6020
Cadmium		9.86		0.0500	mg/L	6020
Chromium		0.0587	J	0.100	mg/L	6020
Copper		0.771		0.100	mg/L	6020
Lead		0.487		0.00500	mg/L	6020
Nickel		0.815		0.00500	mg/L	6020
Selenium		0.00138	J	0.00500	mg/L	6020
Silver		0.00167	J	0.00500	mg/L	6020
Thallium		0.00455		0.00250	mg/L	6020
Zinc		396		12.5	mg/L	6020
Mercury		0.000150	J	0.00200	mg/L	7470A
Cyanide, Total		4.38	J B	10.0	ug/L	9012A
pH		6.51	HF	0.100	SU	9040C
560-18286-4	**FIELD BLANK 01**					
Cadmium		0.00695		0.00250	mg/L	6020
Nickel		0.00430	J	0.00500	mg/L	6020
Cyanide, Total		2.25	J B	10.0	ug/L	9012A
pH		7.17	HF	0.100	SU	9040C

METHOD SUMMARY

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Description	Lab Location	Method	Preparation Method
Matrix Solid			
Metals (ICP/MS)	TAL CC	SW846 6020	
TCLP Extraction	TAL CC		SW846 1311
Preparation, Total Metals	TAL CC		SW846 3010A
Mercury (CVAA)	TAL CC	SW846 7470A	
TCLP Extraction	TAL CC		SW846 1311
Preparation, Mercury	TAL CC		SW846 7470A
Cyanide, Reactive	TAL HOU	SW846 9012	
Cyanide, Reactive	TAL HOU		SW846 7.3.3
Total and Amenable Cyanide (Automated Colorimetric, with Off-Line Distillation)	TAL HOU	SW846 9012A	
Sulfide, Reactive	TAL CC	SW846 9034	
Sulfide, Reactive	TAL CC		SW846 7.3.4
pH	TAL CC	SW846 9045D	
Percent Moisture	TAL CC	EPA Moisture	
Matrix Water			
Metals (ICP/MS)	TAL CC	SW846 6020	
Preparation, Total Metals	TAL CC		SW846 3010A
Mercury (CVAA)	TAL CC	SW846 7470A	
Preparation, Mercury	TAL CC		SW846 7470A
Cyanide, Reactive	TAL HOU	SW846 9012	
Cyanide, Reactive	TAL HOU		SW846 7.3.3
Total and Amenable Cyanide (Automated Colorimetric, with Off-Line Distillation)	TAL HOU	SW846 9012A	
Sulfide, Reactive	TAL CC	SW846 9034	
Sulfide, Reactive	TAL CC		SW846 7.3.4
pH	TAL CC	SW846 9040C	

Lab References:

TAL CC = TestAmerica Corpus Christi

TAL HOU = TestAmerica Houston

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Method	Analyst	Analyst ID
SW846 6020	Reyes, Eddie D	EDR
SW846 7470A	Mathewson, John E	JEM
SW846 9012	Walker, Gerald (Gerry) C	GCW
SW846 9012A	Walker, Gerald (Gerry) C	GCW
SW846 9034	Henny, April	AH
SW846 9040C	Gonzalez, Sonia	SG
SW846 9045D	Gonzalez, Sonia	SG
EPA Moisture	Mbipeh, Brenda	BM

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
560-18286-1	Tank #6	Solid	12/02/2009 0845	12/03/2009 0733
560-18286-2	Tank #18	Water	12/02/2009 0920	12/03/2009 0733
560-18286-3	Tank #13	Water	12/02/2009 0950	12/03/2009 0733
560-18286-4	Field Blank 01	Water	12/02/2009 1130	12/03/2009 0733

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Client Sample ID: **Tank #6**

Lab Sample ID: 560-18286-1
Client Matrix: Solid

Date Sampled: 12/02/2009 0845
Date Received: 12/03/2009 0733

6020 Metals (ICP/MS)-TCLP

Method:	6020	Analysis Batch: 560-42985		Instrument ID:	Micpms
Preparation:	3010A	Prep Batch: 560-42900		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 560-42884		Initial Weight/Volume:	50 mL
Date Analyzed:	12/09/2009 0200			Final Weight/Volume:	50 mL
Date Prepared:	12/07/2009 0830				
Date Leached:	12/04/2009 1522				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Antimony		0.00608		0.00246	0.00500
Arsenic		0.0766		0.00147	0.00500
Barium		0.428		0.00121	0.00500
Cadmium		4.57		0.000854	0.00250
Chromium		0.0581		0.00140	0.00500
Copper		37.4		0.00210	0.00500
Lead		0.343		0.00204	0.00500
Nickel		2.67		0.00217	0.00500
Selenium		0.00900		0.00108	0.00500
Silver		<0.000941		0.000941	0.00500
Thallium		0.0317		0.00140	0.00250
Vanadium		0.00332	J	0.00190	0.00500
Zinc		177		0.0103	0.0250

7470A Mercury (CVAA)-TCLP

Method:	7470A	Analysis Batch: 560-43136		Instrument ID:	Mhg1
Preparation:	7470A	Prep Batch: 560-43137		Lab File ID:	N/A
Dilution:	1.0	Leachate Batch: 560-42884		Initial Weight/Volume:	50 mL
Date Analyzed:	12/11/2009 1610			Final Weight/Volume:	50 mL
Date Prepared:	12/11/2009 1042				
Date Leached:	12/04/2009 1522				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		<0.000130		0.000130	0.00200

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Client Sample ID: **Tank #18**

Lab Sample ID: 560-18286-2
Client Matrix: Water

Date Sampled: 12/02/2009 0920
Date Received: 12/03/2009 0733

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 560-42938	Instrument ID:	Micpms
Preparation:	3010A	Prep Batch: 560-42865	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/08/2009 0029		Final Weight/Volume:	50 mL
Date Prepared:	12/04/2009 1043			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Antimony	0.0147		0.00246	0.00500
Arsenic	0.00826		0.00147	0.00500
Barium	0.0680		0.00121	0.00500
Lead	0.282		0.00204	0.00500
Silver	<0.000941		0.000941	0.00500
Vanadium	0.00210	J	0.00190	0.00500

Method:	6020	Analysis Batch: 560-42985	Instrument ID:	Micpms
Preparation:	3010A	Prep Batch: 560-42865	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/08/2009 2013		Final Weight/Volume:	50 mL
Date Prepared:	12/04/2009 1043			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chromium	0.0115		0.00140	0.00500

Method:	6020	Analysis Batch: 560-43174	Instrument ID:	Micpms
Preparation:	3010A	Prep Batch: 560-42865	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/14/2009 1250		Final Weight/Volume:	50 mL
Date Prepared:	12/04/2009 1043			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Selenium	0.0276		0.00108	0.00500
Thallium	0.00935		0.00140	0.00250

Method:	6020	Analysis Batch: 560-42985	Instrument ID:	Micpms
Preparation:	3010A	Prep Batch: 560-42865	Lab File ID:	N/A
Dilution:	20		Initial Weight/Volume:	50 mL
Date Analyzed:	12/08/2009 2045		Final Weight/Volume:	50 mL
Date Prepared:	12/04/2009 1043			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium	11.9		0.0171	0.0500
Copper	3.80		0.0420	0.100
Nickel	20.6		0.0434	0.100

Method:	6020	Analysis Batch: 560-43174	Instrument ID:	Micpms
Preparation:	3010A	Prep Batch: 560-42865	Lab File ID:	N/A
Dilution:	500		Initial Weight/Volume:	50 mL
Date Analyzed:	12/14/2009 1306		Final Weight/Volume:	50 mL
Date Prepared:	12/04/2009 1043			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Zinc	251		5.15	12.5

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Client Sample ID: **Tank #18**

Lab Sample ID: 560-18286-2
Client Matrix: Water

Date Sampled: 12/02/2009 0920
Date Received: 12/03/2009 0733

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 560-42968		Instrument ID:	Mhg1
Preparation:	7470A	Prep Batch: 560-42974		Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	12/08/2009 1148			Final Weight/Volume:	50 mL
Date Prepared:	12/07/2009 0900				

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	<0.000130		0.000130	0.00200

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Client Sample ID: **Tank #13**

Lab Sample ID: 560-18286-3
Client Matrix: Water

Date Sampled: 12/02/2009 0950
Date Received: 12/03/2009 0733

6020 Metals (ICP/MS)

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/08/2009 0045
Date Prepared: 12/04/2009 1043

Analysis Batch: 560-42938
Prep Batch: 560-42865

Instrument ID: Micpms
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Antimony	0.00842		0.00246	0.00500
Arsenic	0.167		0.00147	0.00500
Barium	0.169		0.00121	0.00500
Lead	0.487		0.00204	0.00500
Nickel	0.815		0.00217	0.00500
Silver	0.00167	J	0.000941	0.00500
Vanadium	<0.00190		0.00190	0.00500

Method: 6020
Preparation: 3010A
Dilution: 1.0
Date Analyzed: 12/18/2009 1105
Date Prepared: 12/04/2009 1043

Analysis Batch: 560-43373
Prep Batch: 560-42865

Instrument ID: Micpms
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Selenium	0.00138	J	0.00108	0.00500
Thallium	0.00455		0.00140	0.00250

Method: 6020
Preparation: 3010A
Dilution: 20
Date Analyzed: 12/08/2009 2050
Date Prepared: 12/04/2009 1043

Analysis Batch: 560-42985
Prep Batch: 560-42865

Instrument ID: Micpms
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Cadmium	9.86		0.0171	0.0500
Chromium	0.0587	J	0.0280	0.100
Copper	0.771		0.0420	0.100

Method: 6020
Preparation: 3010A
Dilution: 500
Date Analyzed: 12/18/2009 1430
Date Prepared: 12/04/2009 1043

Analysis Batch: 560-43373
Prep Batch: 560-42865

Instrument ID: Micpms
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result (mg/L)	Qualifier	MDL	RL
Zinc	396		5.15	12.5

7470A Mercury (CVAA)

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Client Sample ID: **Tank #13**

Lab Sample ID: 560-18286-3
Client Matrix: Water

Date Sampled: 12/02/2009 0950
Date Received: 12/03/2009 0733

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 560-42968	Instrument ID:	Mhg1
Preparation:	7470A	Prep Batch: 560-42974	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/08/2009 1157		Final Weight/Volume:	50 mL
Date Prepared:	12/07/2009 0900			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	0.000150	J	0.000130	0.00200

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Client Sample ID: **Field Blank 01**

Lab Sample ID: 560-18286-4
Client Matrix: Water

Date Sampled: 12/02/2009 1130
Date Received: 12/03/2009 0733

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 560-42938	Instrument ID:	Micpms
Preparation:	3010A	Prep Batch: 560-42865	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/08/2009 0050		Final Weight/Volume:	50 mL
Date Prepared:	12/04/2009 1043			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Antimony	<0.00246		0.00246	0.00500
Arsenic	<0.00147		0.00147	0.00500
Barium	<0.00121		0.00121	0.00500
Cadmium	0.00695		0.000854	0.00250
Copper	<0.00210		0.00210	0.00500
Lead	<0.00204		0.00204	0.00500
Nickel	0.00430	J	0.00217	0.00500
Silver	<0.000941		0.000941	0.00500
Vanadium	<0.00190		0.00190	0.00500

Method:	6020	Analysis Batch: 560-42985	Instrument ID:	Micpms
Preparation:	3010A	Prep Batch: 560-42865	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/08/2009 2101		Final Weight/Volume:	50 mL
Date Prepared:	12/04/2009 1043			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Chromium	<0.00140		0.00140	0.00500

Method:	6020	Analysis Batch: 560-43373	Instrument ID:	Micpms
Preparation:	3010A	Prep Batch: 560-42865	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/18/2009 1111		Final Weight/Volume:	50 mL
Date Prepared:	12/04/2009 1043			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Selenium	<0.00108		0.00108	0.00500
Thallium	<0.00140		0.00140	0.00250

Method:	6020	Analysis Batch: 560-43467	Instrument ID:	Micpms
Preparation:	3010A	Prep Batch: 560-42865	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/22/2009 1457		Final Weight/Volume:	50 mL
Date Prepared:	12/04/2009 1043			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Zinc	<0.0103		0.0103	0.0250

7470A Mercury (CVAA)

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Client Sample ID: **Field Blank 01**

Lab Sample ID: 560-18286-4
Client Matrix: Water

Date Sampled: 12/02/2009 1130
Date Received: 12/03/2009 0733

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 560-42968	Instrument ID:	Mhg1
Preparation:	7470A	Prep Batch: 560-42974	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	12/08/2009 1200		Final Weight/Volume:	50 mL
Date Prepared:	12/07/2009 0900			

Analyte	Result (mg/L)	Qualifier	MDL	RL
Mercury	<0.000130		0.000130	0.00200

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

General Chemistry

Client Sample ID: **Tank #6**

Lab Sample ID: 560-18286-1
Client Matrix: Solid

Date Sampled: 12/02/2009 0845
Date Received: 12/03/2009 0733

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Reactive	<17.6		ug/Kg	17.6	250	1.0	9012
Analysis Batch: 600-25108	Date Analyzed: 12/15/2009 1432						DryWt Corrected: N
Prep Batch: 600-25012	Date Prepared: 12/14/2009 1300						
Cyanide, Total	33600	B	ug/Kg	339	4820	10	9012A
Analysis Batch: 600-25107	Date Analyzed: 12/15/2009 1441						DryWt Corrected: N

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide, Reactive	<50.0		mg/Kg	50.0	50.0	1.0	9034
Analysis Batch: 560-43016	Date Analyzed: 12/08/2009 1650						DryWt Corrected: N
Prep Batch: 560-43014	Date Prepared: 12/08/2009 0900						
pH	6.25		SU	0.100	0.100	1.0	9045D
Analysis Batch: 560-42964	Date Analyzed: 12/08/2009 1015						DryWt Corrected: N
Percent Moisture	69		%	0.010	0.010	1.0	Moisture
Analysis Batch: 560-42862	Date Analyzed: 12/03/2009 1605						DryWt Corrected: N
Percent Solids	31		%	0.010	0.010	1.0	Moisture
Analysis Batch: 560-42862	Date Analyzed: 12/03/2009 1605						DryWt Corrected: N

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

General Chemistry

Client Sample ID: **Tank #18**

Lab Sample ID: 560-18286-2
Client Matrix: Water

Date Sampled: 12/02/2009 0920
Date Received: 12/03/2009 0733

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Reactive	<35.5		ug/L	35.5	250	1.0	9012
Analysis Batch: 600-25253	Date Analyzed: 12/17/2009 1510						
Prep Batch: 600-25143	Date Prepared: 12/16/2009 1008						
Cyanide, Total	4.82	J B	ug/L	0.805	10.0	1.0	9012A
Analysis Batch: 600-25107	Date Analyzed: 12/15/2009 1355						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide, Reactive	<50.0		mg/Kg	50.0	50.0	1.0	9034
Analysis Batch: 560-43016	Date Analyzed: 12/08/2009 1650						
Prep Batch: 560-43014	Date Prepared: 12/08/2009 0900						
pH	6.02	HF	SU	0.100	0.100	1.0	9040C
Analysis Batch: 560-42956	Date Analyzed: 12/04/2009 0900						

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

General Chemistry

Client Sample ID: **Tank #13**

Lab Sample ID: 560-18286-3
Client Matrix: Water

Date Sampled: 12/02/2009 0950
Date Received: 12/03/2009 0733

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Reactive	<35.5		ug/L	35.5	250	1.0	9012
Analysis Batch: 600-25253	Date Analyzed: 12/17/2009 1510						
Prep Batch: 600-25143	Date Prepared: 12/16/2009 1008						
Cyanide, Total	4.38	J B	ug/L	0.805	10.0	1.0	9012A
Analysis Batch: 600-25107	Date Analyzed: 12/15/2009 1355						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide, Reactive	<50.0		mg/Kg	50.0	50.0	1.0	9034
Analysis Batch: 560-43016	Date Analyzed: 12/08/2009 1650						
Prep Batch: 560-43014	Date Prepared: 12/08/2009 0900						
pH	6.51	HF	SU	0.100	0.100	1.0	9040C
Analysis Batch: 560-42956	Date Analyzed: 12/04/2009 0900						

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

General Chemistry

Client Sample ID: **Field Blank 01**

Lab Sample ID: 560-18286-4
Client Matrix: Water

Date Sampled: 12/02/2009 1130
Date Received: 12/03/2009 0733

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Cyanide, Reactive	<35.5		ug/L	35.5	250	1.0	9012
Analysis Batch: 600-25253	Date Analyzed: 12/17/2009 1510						
Prep Batch: 600-25143	Date Prepared: 12/16/2009 1008						
Cyanide, Total	2.25	J B	ug/L	0.805	10.0	1.0	9012A
Analysis Batch: 600-25107	Date Analyzed: 12/15/2009 1356						

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Sulfide, Reactive	<50.0		mg/Kg	50.0	50.0	1.0	9034
Analysis Batch: 560-43016	Date Analyzed: 12/08/2009 1650						
Prep Batch: 560-43014	Date Prepared: 12/08/2009 0900						
pH	7.17	HF	SU	0.100	0.100	1.0	9040C
Analysis Batch: 560-42956	Date Analyzed: 12/04/2009 0900						

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Lab Section	Qualifier	Description
Metals		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	B	Compound was found in the blank and sample.
	HF	Field parameter with a holding time of 15 minutes
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Method Blank - Batch: 560-42865

Method: 6020
Preparation: 3010A

Lab Sample ID:	MB 560-42865/1-A	Analysis Batch:	560-42938	Instrument ID:	Agilent ICPMS
Client Matrix:	Water	Prep Batch:	560-42865	Lab File ID:	N/A
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	50 mL
Date Analyzed:	12/08/2009 0002			Final Weight/Volume:	50 mL
Date Prepared:	12/04/2009 1043				

Analyte	Result	Qual	MDL	RL
Antimony	<0.00246		0.00246	0.00500
Arsenic	<0.00147		0.00147	0.00500
Barium	<0.00121		0.00121	0.00500
Cadmium	<0.000854		0.000854	0.00250
Copper	<0.00210		0.00210	0.00500
Lead	<0.00204		0.00204	0.00500
Nickel	<0.00217		0.00217	0.00500
Silver	<0.000941		0.000941	0.00500
Vanadium	<0.00190		0.00190	0.00500

Method Blank - Batch: 560-42865

Method: 6020
Preparation: 3010A

Lab Sample ID:	MB 560-42865/1-A	Analysis Batch:	560-42985	Instrument ID:	Agilent ICPMS
Client Matrix:	Water	Prep Batch:	560-42865	Lab File ID:	N/A
Dilution:	1.0	Units:	mg/L	Initial Weight/Volume:	50 mL
Date Analyzed:	12/08/2009 2003			Final Weight/Volume:	50 mL
Date Prepared:	12/04/2009 1043				

Analyte	Result	Qual	MDL	RL
Cadmium	<0.000854		0.000854	0.00250
Chromium	<0.00140		0.00140	0.00500
Copper	<0.00210		0.00210	0.00500
Nickel	<0.00217		0.00217	0.00500

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Method Blank - Batch: 560-42865

Method: 6020
Preparation: 3010A

Lab Sample ID: MB 560-42865/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/14/2009 1223
Date Prepared: 12/04/2009 1043

Analysis Batch: 560-43174
Prep Batch: 560-42865
Units: mg/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Selenium	0.001514	J	0.00108	0.00500
Thallium	<0.00140		0.00140	0.00250
Zinc	<0.0103		0.0103	0.0250

Method Blank - Batch: 560-42865

Method: 6020
Preparation: 3010A

Lab Sample ID: MB 560-42865/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/18/2009 1039
Date Prepared: 12/04/2009 1043

Analysis Batch: 560-43373
Prep Batch: 560-42865
Units: mg/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Selenium	<0.00108		0.00108	0.00500
Thallium	<0.00140		0.00140	0.00250
Zinc	<0.0103		0.0103	0.0250

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Lab Control Sample - Batch: 560-42865

Method: 6020
Preparation: 3010A

Lab Sample ID: LCS 560-42865/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2009 0007
Date Prepared: 12/04/2009 1043

Analysis Batch: 560-42938
Prep Batch: 560-42865
Units: mg/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.400	0.3828	96	80 - 120	
Arsenic	0.400	0.4109	103	80 - 120	
Barium	0.400	0.3922	98	80 - 120	
Cadmium	0.400	0.3811	95	80 - 120	
Copper	0.400	0.3889	97	80 - 120	
Lead	0.400	0.3856	96	80 - 120	
Nickel	0.400	0.3928	98	80 - 120	
Silver	0.400	0.3633	91	80 - 120	
Vanadium	0.400	0.3996	100	80 - 120	

Lab Control Sample - Batch: 560-42865

Method: 6020
Preparation: 3010A

Lab Sample ID: LCS 560-42865/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2009 2008
Date Prepared: 12/04/2009 1043

Analysis Batch: 560-42985
Prep Batch: 560-42865
Units: mg/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	0.400	0.3889	97	80 - 120	
Chromium	0.400	0.4101	103	80 - 120	
Copper	0.400	0.4038	101	80 - 120	
Nickel	0.400	0.4066	102	80 - 120	

Lab Control Sample - Batch: 560-42865

Method: 6020
Preparation: 3010A

Lab Sample ID: LCS 560-42865/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/14/2009 1245
Date Prepared: 12/04/2009 1043

Analysis Batch: 560-43174
Prep Batch: 560-42865
Units: mg/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Selenium	0.400	0.3791	95	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Lab Control Sample - Batch: 560-42865

Method: 6020
Preparation: 3010A

Lab Sample ID: LCS 560-42865/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/14/2009 1245
Date Prepared: 12/04/2009 1043

Analysis Batch: 560-43174
Prep Batch: 560-42865
Units: mg/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Thallium	0.200	0.1949	97	80 - 120	
Zinc	0.400	0.3671	92	80 - 120	

Lab Control Sample - Batch: 560-42865

Method: 6020
Preparation: 3010A

Lab Sample ID: LCS 560-42865/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/18/2009 1044
Date Prepared: 12/04/2009 1043

Analysis Batch: 560-43373
Prep Batch: 560-42865
Units: mg/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Selenium	0.400	0.3926	98	80 - 120	
Thallium	0.200	0.1962	98	80 - 120	
Zinc	0.400	0.3965	99	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 560-42865

Method: 6020
Preparation: 3010A

MS Lab Sample ID:	560-18286-2	Analysis Batch: 560-42938	Instrument ID: Agilent ICPMS
Client Matrix:	Water	Prep Batch: 560-42865	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	12/08/2009 0034		Final Weight/Volume: 50 mL
Date Prepared:	12/04/2009 1043		

MSD Lab Sample ID:	560-18286-2	Analysis Batch: 560-42938	Instrument ID: Agilent ICPMS
Client Matrix:	Water	Prep Batch: 560-42865	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	12/08/2009 0039		Final Weight/Volume: 50 mL
Date Prepared:	12/04/2009 1043		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Antimony	95	97	80 - 120	2	20		
Arsenic	100	101	80 - 120	1	20		
Barium	101	101	80 - 120	0	20		
Cadmium	125	202	80 - 120	2	20	4	4
Copper	127	158	80 - 120	3	20	4	4
Lead	104	103	80 - 120	1	20		
Nickel	220	330	80 - 120	2	20	4	4
Silver	89	90	80 - 120	1	20		
Vanadium	96	100	80 - 120	3	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 560-42865

Method: 6020
Preparation: 3010A

MS Lab Sample ID:	560-18286-2	Analysis Batch: 560-42985	Instrument ID: Agilent ICPMS
Client Matrix:	Water	Prep Batch: 560-42865	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	12/08/2009 2035		Final Weight/Volume: 50 mL
Date Prepared:	12/04/2009 1043		

MSD Lab Sample ID:	560-18286-2	Analysis Batch: 560-42985	Instrument ID: Agilent ICPMS
Client Matrix:	Water	Prep Batch: 560-42865	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	12/08/2009 2040		Final Weight/Volume: 50 mL
Date Prepared:	12/04/2009 1043		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cadmium	208	230	80 - 120	1	20	4	4
Chromium	100	104	80 - 120	5	20		
Copper	94	160	80 - 120	6	20	4	4
Nickel	190	478	80 - 120	5	20	4	4

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 560-42865

Method: 6020
Preparation: 3010A

MS Lab Sample ID:	560-18286-2	Analysis Batch: 560-43174	Instrument ID: Agilent ICPMS
Client Matrix:	Water	Prep Batch: 560-42865	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	12/14/2009 1256		Final Weight/Volume: 50 mL
Date Prepared:	12/04/2009 1043		

MSD Lab Sample ID:	560-18286-2	Analysis Batch: 560-43174	Instrument ID: Agilent ICPMS
Client Matrix:	Water	Prep Batch: 560-42865	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 50 mL
Date Analyzed:	12/14/2009 1301		Final Weight/Volume: 50 mL
Date Prepared:	12/04/2009 1043		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Selenium	88	91	80 - 120	3	20		
Thallium	88	93	80 - 120	6	20		
Zinc	-825	2300	80 - 120	6	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 560-42865

Method: 6020
Preparation: 3010A

MS Lab Sample ID: 560-18286-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2009 0034
Date Prepared: 12/04/2009 1043

Units: mg/L

MSD Lab Sample ID: 560-18286-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2009 0039
Date Prepared: 12/04/2009 1043

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Antimony	0.0147		0.400	0.400	0.3959		0.4025	
Arsenic	0.00826		0.400	0.400	0.4068		0.4120	
Barium	0.0680		0.400	0.400	0.4705		0.4718	
Cadmium	12.3		0.400	0.400	12.84	4	13.15	4
Copper	3.44		0.400	0.400	3.949	4	4.074	4
Lead	0.282		0.400	0.400	0.6957		0.6922	
Nickel	19.3		0.400	0.400	20.21	4	20.65	4
Silver	<0.000941		0.400	0.400	0.3553		0.3594	
Vanadium	0.00210	J	0.400	0.400	0.3867		0.4004	

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 560-42865

Method: 6020
Preparation: 3010A

MS Lab Sample ID: 560-18286-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2009 2035
Date Prepared: 12/04/2009 1043

Units: mg/L

MSD Lab Sample ID: 560-18286-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2009 2040
Date Prepared: 12/04/2009 1043

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Cadmium	12.6	0.400	0.400	13.39	4	13.48	4
Chromium	0.0115	0.400	0.400	0.4095		0.4287	
Copper	3.85	0.400	0.400	4.229	4	4.493	4
Nickel	20.6	0.400	0.400	21.37	4	22.52	4

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 560-42865

Method: 6020
Preparation: 3010A

MS Lab Sample ID:	560-18286-2	Units: mg/L	MSD Lab Sample ID: 560-18286-2
Client Matrix:	Water		Client Matrix: Water
Dilution:	1.0		Dilution: 1.0
Date Analyzed:	12/14/2009 1256		Date Analyzed: 12/14/2009 1301
Date Prepared:	12/04/2009 1043		Date Prepared: 12/04/2009 1043

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Selenium	0.0276	0.400	0.400	0.3792	0.3920
Thallium	0.00935	0.200	0.200	0.1849	0.1954
Zinc	218	0.400	0.400	214.8	227.3

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Method Blank - Batch: 560-42900

Method: 6020
Preparation: 3010A

Lab Sample ID: MB 560-42900/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/09/2009 0031
Date Prepared: 12/07/2009 0830

Analysis Batch: 560-42985
Prep Batch: 560-42900
Units: mg/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Antimony	<0.00246		0.00246	0.00500
Arsenic	<0.00147		0.00147	0.00500
Barium	<0.00121		0.00121	0.00500
Cadmium	<0.000854		0.000854	0.00250
Chromium	<0.00140		0.00140	0.00500
Copper	<0.00210		0.00210	0.00500
Lead	<0.00204		0.00204	0.00500
Nickel	<0.00217		0.00217	0.00500
Selenium	<0.00108		0.00108	0.00500
Silver	<0.000941		0.000941	0.00500
Thallium	<0.00140		0.00140	0.00250
Vanadium	<0.00190		0.00190	0.00500
Zinc	<0.0103		0.0103	0.0250

Lab Control Sample - Batch: 560-42900

Method: 6020
Preparation: 3010A

Lab Sample ID: LCS 560-42900/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/09/2009 0037
Date Prepared: 12/07/2009 0830

Analysis Batch: 560-42985
Prep Batch: 560-42900
Units: mg/L

Instrument ID: Agilent ICPMS
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.400	0.3634	91	80 - 120	
Arsenic	0.400	0.3854	96	80 - 120	
Barium	0.400	0.3809	95	80 - 120	
Cadmium	0.400	0.3735	93	80 - 120	
Chromium	0.400	0.3938	98	80 - 120	
Copper	0.400	0.3892	97	80 - 120	
Lead	0.400	0.3748	94	80 - 120	
Nickel	0.400	0.3890	97	80 - 120	
Selenium	0.400	0.3978	99	80 - 120	
Silver	0.400	0.3635	91	80 - 120	
Thallium	0.200	0.1928	96	80 - 120	
Vanadium	0.400	0.3845	96	80 - 120	
Zinc	0.400	0.3773	94	80 - 120	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Method Blank - Batch: 560-42974

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 560-42974/4-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2009 1141
Date Prepared: 12/07/2009 0900

Analysis Batch: 560-42968
Prep Batch: 560-42974
Units: mg/L

Instrument ID: Mercury Analyzer Leeman -
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	<0.000130		0.000130	0.00200

Lab Control Sample - Batch: 560-42974

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 560-42974/5-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2009 1143
Date Prepared: 12/07/2009 0900

Analysis Batch: 560-42968
Prep Batch: 560-42974
Units: mg/L

Instrument ID: Mercury Analyzer Leeman -
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00500	0.004800	96	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 560-42974

Method: 7470A
Preparation: 7470A

MS Lab Sample ID: 560-18286-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2009 1151
Date Prepared: 12/07/2009 0900

Analysis Batch: 560-42968
Prep Batch: 560-42974

Instrument ID: Mercury Analyzer Leeman -
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 560-18286-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2009 1153
Date Prepared: 12/07/2009 0900

Analysis Batch: 560-42968
Prep Batch: 560-42974

Instrument ID: Mercury Analyzer Leeman -
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	98	89	80 - 120	10	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 560-42974

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	560-18286-2	Units: mg/L	MSD Lab Sample ID:	560-18286-2
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	12/08/2009 1151		Date Analyzed:	12/08/2009 1153
Date Prepared:	12/07/2009 0900		Date Prepared:	12/07/2009 0900

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	<0.000130	0.00500	0.00500	0.004910	0.004460

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Method Blank - Batch: 560-43137

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 560-43137/4-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2009 1602
Date Prepared: 12/11/2009 1042

Analysis Batch: 560-43136
Prep Batch: 560-43137
Units: mg/L

Instrument ID: Mercury Analyzer Leeman -
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	<0.000130		0.000130	0.00200

Lab Control Sample - Batch: 560-43137

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 560-43137/5-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/11/2009 1605
Date Prepared: 12/11/2009 1042

Analysis Batch: 560-43136
Prep Batch: 560-43137
Units: mg/L

Instrument ID: Mercury Analyzer Leeman -
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00500	0.004900	98	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 560-43137

Method: 7470A
Preparation: 7470A
TCLP

MS Lab Sample ID: 560-18286-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/11/2009 1612
Date Prepared: 12/11/2009 1042
Date Leached: 12/04/2009 1522

Analysis Batch: 560-43136
Prep Batch: 560-43137

Instrument ID: Mercury Analyzer Leeman -
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 560-18286-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/11/2009 1615
Date Prepared: 12/11/2009 1042
Date Leached: 12/04/2009 1522

Analysis Batch: 560-43136
Prep Batch: 560-43137

Instrument ID: Mercury Analyzer Leeman -
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	99	92	80 - 120	6	20		

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 560-43137

Method: 7470A
Preparation: 7470A
TCLP

MS Lab Sample ID:	560-18286-1	Units: mg/L	MSD Lab Sample ID:	560-18286-1
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	12/11/2009 1612		Date Analyzed:	12/11/2009 1615
Date Prepared:	12/11/2009 1042		Date Prepared:	12/11/2009 1042
Date Leached:	12/04/2009 1522		Date Leached:	12/04/2009 1522

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	<0.000130	0.00500	0.00500	0.004930	0.004620

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Method Blank - Batch: 600-25012

Method: 9012
Preparation: 7.3.3

Lab Sample ID: MB 600-25012/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/15/2009 1418
Date Prepared: 12/14/2009 1045

Analysis Batch: 600-25108
Prep Batch: 600-25012
Units: ug/Kg

Instrument ID: WC05 Lachat-1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Reactive	<17.6		17.6	250

Lab Control Sample - Batch: 600-25012

Method: 9012
Preparation: 7.3.3

Lab Sample ID: LCS 600-25012/2-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 12/15/2009 1449
Date Prepared: 12/14/2009 1045

Analysis Batch: 600-25108
Prep Batch: 600-25012
Units: ug/Kg

Instrument ID: WC05 Lachat-1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Reactive	1000000	17130	2	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Method Blank - Batch: 600-25143

Method: 9012
Preparation: 7.3.3

Lab Sample ID: MB 600-25143/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/17/2009 1510
Date Prepared: 12/16/2009 1008

Analysis Batch: 600-25253
Prep Batch: 600-25143
Units: ug/L

Instrument ID: WC05 Lachat-1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Cyanide, Reactive	<35.5		35.5	250

Lab Control Sample - Batch: 600-25143

Method: 9012
Preparation: 7.3.3

Lab Sample ID: LCS 600-25143/2-A
Client Matrix: Water
Dilution: 10
Date Analyzed: 12/17/2009 1510
Date Prepared: 12/16/2009 1008

Analysis Batch: 600-25253
Prep Batch: 600-25143
Units: ug/L

Instrument ID: WC05 Lachat-1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Reactive	1000000	8520	1	0 - 100	

Matrix Spike - Batch: 600-25143

Method: 9012
Preparation: 7.3.3

Lab Sample ID: 560-18286-2
Client Matrix: Water
Dilution: 20
Date Analyzed: 12/17/2009 1510
Date Prepared: 12/16/2009 1008

Analysis Batch: 600-25253
Prep Batch: 600-25143
Units: ug/L

Instrument ID: WC05 Lachat-1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Reactive	<35.5	1000000	21870	2	0 - 100	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Duplicate - Batch: 600-25143

Method: 9012
Preparation: 7.3.3

Lab Sample ID: 560-18286-2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/17/2009 1510
Date Prepared: 12/16/2009 1008

Analysis Batch: 600-25253
Prep Batch: 600-25143
Units: ug/L

Instrument ID: WC05 Lachat-1
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 250 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Cyanide, Reactive	<35.5	<35.5	NC	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Method Blank - Batch: 600-25107

Method: 9012A
Preparation: N/A

Lab Sample ID:	MB 600-25107/10	Analysis Batch:	600-25107	Instrument ID:	WC05 Lachat-1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Units:	ug/L	Initial Weight/Volume:	50 mL
Date Analyzed:	12/15/2009 1346			Final Weight/Volume:	50 mL
Date Prepared:	N/A				

Analyte	Result	Qual	MDL	RL
Cyanide, Total	1.199	J	0.805	10.0

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Method Blank - Batch: 560-43014

Method: 9034
Preparation: 7.3.4

Lab Sample ID: MB 560-43014/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/08/2009 1650
Date Prepared: 12/08/2009 0900

Analysis Batch: 560-43016
Prep Batch: 560-43014
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL	RL
Sulfide, Reactive	<50.0		50.0	50.0

Lab Control Sample - Batch: 560-43014

Method: 9034
Preparation: 7.3.4

Lab Sample ID: LCS 560-43014/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/08/2009 1650
Date Prepared: 12/08/2009 0900

Analysis Batch: 560-43016
Prep Batch: 560-43014
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfide, Reactive	98.4	56.15	57	28 - 140	

Duplicate - Batch: 560-43014

Method: 9034
Preparation: 7.3.4

Lab Sample ID: 560-18286-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/08/2009 1650
Date Prepared: 12/08/2009 0900

Analysis Batch: 560-43016
Prep Batch: 560-43014
Units: mg/Kg

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 10 g
Final Weight/Volume: 10 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Sulfide, Reactive	<50.0	<50.0	NC	30	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Lab Control Sample - Batch: 560-42956

Method: 9040C
Preparation: N/A

Lab Sample ID: LCS 560-42956/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/04/2009 0900
Date Prepared: N/A

Analysis Batch: 560-42956
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 20 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	4.99	5.010	100	98 - 102	

Duplicate - Batch: 560-42956

Method: 9040C
Preparation: N/A

Lab Sample ID: 560-18286-4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/04/2009 0900
Date Prepared: N/A

Analysis Batch: 560-42956
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 20 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.17	7.140	0	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
Sdg Number: CC001188.0004/December 2009

Lab Control Sample - Batch: 560-42964

Method: 9045D
Preparation: N/A

Lab Sample ID: LCS 560-42964/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/08/2009 1015
Date Prepared: N/A

Analysis Batch: 560-42964
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 20 mL
Final Weight/Volume: 20 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	4.99	5.020	101	98 - 102	

Duplicate - Batch: 560-42964

Method: 9045D
Preparation: N/A

Lab Sample ID: 560-18286-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/08/2009 1015
Date Prepared: N/A

Analysis Batch: 560-42964
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 20 g
Final Weight/Volume: 20 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	6.25	6.350	2	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

3.9c 1.85 seal

Encycle

No. 28068

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION	PROJECT INFORMATION
COMPANY: Arcadis	PROJECT NAME/NUMBER: CC001168.0004
SEND REPORT TO: Ken Brandner	BILLING INFORMATION
ADDRESS: 711 N. Carancahua	BILL TO: Arcadis
Corpus christi, TX 78475	ADDRESS:
PHONE: 361-883-1353	PHONE:
FAX:	FAX: PO NO:

LAB JOB NO. 18286

SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	NUMBER OF CONTAINERS	pH	Reactivity	Cyanide	Total metals (Sb, As, Ba, Cd, Cr, Ni, Hg, Se, Cu, Pb, Ag, Tl, V, Zn)				REMARKS/PRECAUTIONS
1	Tank ~~#10~~ DD #6	12/2	0845	S	Glass	None	2	-	-	-	-	-			
2	Tank # 18	12/2	0920	L	poly	HCl NaOH	3	-	-	-	-	-			
3	Tank #13	12/2	0950	L	poly	HCl NaOH	3	-	-	-	-	-			
4	Field Blank 01	12/2	1130	L	poly	HCl NaOH	3	-	-	-	-	-			

SAMPLER: Duncan

SHIPMENT METHOD: In Person

AIRBILL NO.:

REQUIRED TURNAROUND* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER

1. RELINQUISHED BY:	DATE	2. RELINQUISHED BY:	DATE	3. RELINQUISHED BY:	DATE
SIGNATURE:	12/3	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Douglas Duncan Arcadis	TIME 0933	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME
1. RECEIVED BY:	DATE	2. RECEIVED BY:	DATE	3. RECEIVED BY:	DATE
SIGNATURE:	12/03/09	SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY:	TIME 0933	PRINTED NAME/COMPANY:	TIME	PRINTED NAME/COMPANY:	TIME

TAL-8222-560 (0808)

TestAmerica
1733 N. Padre Island Drive
Corpus Christi, TX 78408
Phone: 361.289.2673 /Fax: 361.289.2471

*RUSH TURNAROUND MAY REQUIRE SURCHARGE

Login Sample Receipt Check List

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
SDG Number: CC001188.0004/December 2009

Login Number: 18286
Creator: McDermott, Vivian
List Number: 1

List Source: TestAmerica Corpus Christi

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9c IR 5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	COC list HCL containers, however none were received none needed. received NaOH/Z
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	Water samples split in log in for total metals
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

Login Sample Receipt Check List

Client: ARCADIS U.S., Inc.

Job Number: 560-18286-1
SDG Number: CC001188.0004/December 2009

Login Number: 18286
Creator: Clarke, Michael (Mike) C
List Number: 1

List Source: TestAmerica Houston
List Creation: 12/10/09 09:37 AM

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.3
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	False	
Sample Preservation Verified	True	