

FDID 11020 * State UT * Incident Date MM 12 DD 3 YYYY 2012 * Station 85 * Incident Number 12-0005261 * Exposure 0 *

Hazmat
Narrative

Hazardous Materials Narrative:

FIRE CREWS DISPATCHED TO REPORT OF HAZARDOUS MATERIALS INCIDENT AT ONE OF THE NORTH SALT LAKE CITY WATER FACILITIES. JAYDEE WATT WAS FILLING A FLUORIDE TANK IN THE BUILDING WHEN HE STATED HE HAD A DIFFERENT ODOR THAN HE HAS EVER EXPERIENCED BEFORE. STATED HE FIGURED TWO CHEMICALS HAD BEEN MIXED CAUSING THE ODOR AND THE ODOR WAS CAUSING HIM DIFFICULTY BREATHING. STATED THAT RELEASE WAS AN ODOR, NO VAPOR OR SPILL WAS INDICATED. STATED THE PAPERWORK AND LABELING ON THE PRODUCT HAD STATED IT WAS FLOURIDE.

ON ARRIVAL BATTALION 81 ASSUMED COMMAND. HOT ZONE SET UP BETWEEN UTA FRONTRUNNER TRAX AND MAIN STREET. BUSINESSES PSC INDUSTRIAL OUTSOURCING, AND ADVANCED METAL PRODUCTS WERE ADVISED TO SHELTER IN PLACE. AM83 ARRIVED WITH ME82. COMMAND ADVISED ON SCENE UNITS TO SET UP FOR ENTRY. HAZMAT 85 ARRIVED, JAYDEE WATT INTERVIEWED ABOUT FACILITY STATED ALL EMERGENCY SHUT OFFS HAD BEEN DONE ONE STREET VALVE NEEDED TO BE CLOSED. STATED HAD THE CONTACT FOR THATCHER CHEMICAL COMPANY WHO SUPPLIED THE PRODUCT. JEFF ZIEK OF THATCHER COMPANY CONTACTED. HE STATED IT WAS POSSIBLE TWO CHEMICALS HAD BEEN MIXED CAUSING AN ODOR. STATED IF THE SUPPLY PIPING HAD PREVIOUSLY BEEN USED TO SUPPLY HYDROCHLORIC ACID AND THEN SUPPLIED WITH FLUORIDE COULD HAVE CAUSED A CHEMICAL REACTION. THATCHER REPRESENTATIVES HAD ALREADY TAKEN A SAMPLE AND HAD TRANSPORTED IT TO THEIR LAB TO ANALYZE THE PRODUCT. AM85 CREW STARTED MEDICAL ASSESSMENT ON JAYDEE WATT. CARE WAS TRANSFERRED TO AMBULANCE 81 AND PATIENT WAS TRANSPORTED TO LAKEVIEW. DAVIS COUNTY ENVIRONMENTAL HEALTH CONTACTED TO SEND A REPRESENTATIVE. ENTRY TEAMS ENTERED THE HOT ZONE TO MONITOR AND INVESTIGATE. SCBA AND FULL PPE USED. ENTRY TEAMS EXPERIENCED NORMAL READINGS ON HAZMAT MONITORS. PRODUCT CONTAINED TO TANK AND NO SPILL OR LEAK DOCUMENTED BY ENTRY TEAM. PHOTOGRAPHS OF THE LAYOUT WERE TAKEN. CREW ATTEMPTED TO CLOSE VALVE IN THE STREET. ENTRY TEAMS WERE UNABLE TO CLOSE VALVE DUE TO PIECE OF CAP BROKEN OFF IN THE VALVE ACCESS TUBE. ED PARKER AND KATIE CIARDO OF THE DAVIS COUNTY ENVIRONMENTAL HEALTH DEPARTMENT ARRIVED. CREWS USED ENVIRONMENTAL HEALTH DEPARTMENT ACID MONITOR. NEGATIVE READINGS ON BOTH HF ACID AND HCL. ENTRY CREWS WERE ABLE TO CLOSE THE STREET VALVE.

THATCHER COMPANY EMAILED MSDS SHEET TO HAZMAT CREWS. INFORMATION EMAILED TO LOCAL HOSPITAL ER FOR TREATMENT OF PATIENT. THATCHER COMPANY LAB CONFIRMED WITH CHEMICAL ANALYSIS THAT PRODUCT IN THE TANK WAS ACTUALLY THE PRODUCT THAT WAS LABELED AND DELIVERED. STATED THERE ARE STRONG STANDARD OPERATING PROCEDURES REGARDING CLEANING PIPING AND TANKS WHEN OTHER CHEMICALS HAVE BEEN USED. STATED THERE WAS A PAPER TRAIL ON THIS PARTICULAR TANK AND PIPING AND HE IS CONFIDENT THAT NO CHEMICALS WERE MIXED. STATED HE WOULD FOLLOW UP WITH NORTH SALT LAKE PUBLIC WORKS REGARDING THE PRODUCT AND IT'S REPLACEMENT OR MITIGATION. ALL FIRE UNITS CLEARED.

(HAZMAT REPORT INDICATES ONE OUNCE OF CHEMICAL WAS RELEASED. ONE OUNCE IS THE SMALLEST ALLOWABLE QUANTITY DOCUMENTABLE IN THE FIREHOUSE REPORTING SYSTEM. VAPOR RELEASED WAS MOST LIKELY LESS THAN ONE OUNCE.)



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Davis County Environmental Health Services
Attn: Rachelle Blackham
22 South State
Clearfield, UT 84015

Date: 01/08/13
CN: 010813

REPORT NARRATIVE

Re: Sample 1211358-01

The above-referenced sample of fluorosilicic acid was submitted to the laboratory on 12/6/2012 for the analysis of metals and anions. The sample results were reported on 12/18/2012. Subsequent to the report, the raw data for the metals analysis by EPA 200.7 underwent further review. It was discovered that a dilution factor had not been included in the calculation of the metals data. This has been corrected.

The enclosed amended report includes values for the metals analyzed by EPA method 200.7, which are 100 times greater than those originally reported. The values for chloride, fluoride, sulfate, and mercury have not been changed, and remain the same as originally reported.

I apologize for this error in reporting. If you have any questions or comments regarding this narrative, please contact me at (801) 262-7299 or at dgayer@chemtechford.com. Thank you very much.

Sincerely,

David W. Gayer
Laboratory Director
Chemtech-Ford Laboratories



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Certificate of Analysis

Lab Sample No.: 1211358-01

Name: Davis County Environmental Health Services

Sample Date: 12/6/2012 1:45 PM

Sample Site: Hydrofluoric Acid

Receipt Date: 12/6/2012 1:50 PM

Comments:

Sampler: JD Watt

Sample Matrix: As Received

Project: WW

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Inorganic								
Chloride	5000	1000	mg/L	12/11/2012 9:00	TSM	EPA 300.0	16887-00-6	
Fluoride	230000	10000	mg/L	12/7/2012 13:00	TSM	EPA 300.0	16984-48-8	
Sulfate	<2000	2000	mg/L	12/11/2012 9:00	TSM	EPA 300.0	14808-79-8	
Metals								
Aluminum, Total	5.3	5.0	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7429-90-5	
Antimony, Total	ND	2.00	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7440-36-0	
Arsenic, Total	63.7	5.00	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7440-38-2	
Barium, Total	ND	0.500	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7440-39-3	
Beryllium, Total	ND	0.100	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7440-41-7	
Cadmium, Total	ND	0.500	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7440-43-9	
Chromium, Total	ND	0.500	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7440-47-3	
Copper, Total	ND	0.500	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7440-50-8	
Iron, Total	7.84	2.00	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7439-89-6	
Lead, Total	22.2	2.00	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7439-92-1	
Mercury, Total	0.0024	0.0002	mg/L	12/12/2012 15:00	AKL	EPA 245.1	7439-97-6	
Manganese, Total	ND	0.500	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7439-96-5	
Nickel, Total	ND	0.50	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7440-02-0	
Selenium, Total	ND	2.00	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7782-49-2	
Silver, Total	ND	0.500	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7440-22-4	
Sodium, Total	202	50.0	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7440-23-5	
Thallium, Total	ND	2.00	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7440-28-0	
Zinc, Total	ND	1.00	mg/L	12/14/2012 15:08	MJB	EPA 200.7	7440-66-6	



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Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit.

1 mg/L = one milligram per liter or 1 mg/Kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/Kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/Kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions



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Lab Sample No.: 1301980-01

Name: Weber Basin WCD

Sample Date: 3/11/2013 12:00 AM

Sample Site: Fluorosilicic Acid

Receipt Date: 3/13/2013 2:46 PM

Comments: Antelope Booster

Sampler: Doug Parslow

Sample Matrix: As Received

Project: Water

Parameter	Sample Result	Minimum Reporting Limit	Units	Analysis Date/Time	Analyst Initials	Analytical Method	CAS No.	Flag
Inorganic								
Fluoride	230000	10000	mg/L	3/22/2013 19:00	TSM	EPA 300.0	16984-48-8	
Metals								
Aluminum, Total	16.8	5.0	mg/L	4/6/2013 16:14	PNM	EPA 200.7	7429-90-5	
Antimony, Total	ND	0.500	mg/L	4/17/2013 19:16	KSL	EPA 200.8	7440-36-0	
Arsenic, Total	67.8	0.500	mg/L	4/17/2013 19:16	KSL	EPA 200.8	7440-38-2	
Boron, Total	ND	5.00	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-42-8	
Barium, Total	ND	0.500	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-39-3	
Beryllium, Total	ND	0.100	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-41-7	
Calcium, Total	309	20.0	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-43-9	
Cadmium, Total	ND	0.200	mg/L	4/17/2013 19:16	KSL	EPA 200.8	7440-43-9	
Cobalt, Total	ND	1.00	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-48-4	
Chromium, Total	ND	0.500	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-47-3	
Copper, Total	ND	1.00	mg/L	4/17/2013 19:16	KSL	EPA 200.8	7440-50-8	
Iron, Total	17.1	2.00	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7439-89-6	
Lead, Total	ND	0.500	mg/L	4/17/2013 19:16	KSL	EPA 200.8	7439-92-1	
Lithium, Total	ND	0.500	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7439-93-2	
Mercury, Total	ND	0.200	mg/L	4/24/2013 20:27	KSL	EPA 200.8	7439-97-6	
Magnesium, Total	54.2	20.0	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7439-95-4	
Manganese, Total	0.601	0.500	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7439-96-5	
Molybdenum, Total	0.564	0.500	mg/L	4/17/2013 19:16	KSL	EPA 200.8	7439-98-7	
Nickel, Total	ND	0.500	mg/L	4/17/2013 19:16	KSL	EPA 200.8	7440-02-0	
Phosphorus, Total as P	383	20.0	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7723-14-0	
Potassium, Total	ND	50.0	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-09-7	
Selenium, Total	2.97	2.00	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7782-49-2	
Silver, Total	ND	0.500	mg/L	4/17/2013 19:16	KSL	EPA 200.8	7440-22-4	
Silica, (as SiO2) Total	1270	10.0	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7631-86-9	QB-01
Tin, Total	ND	2.00	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-31-5	
Sodium, Total	122	50.0	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-23-5	
Strontium, Total	5.31	1.00	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-24-6	
Titanium, Total	0.579	0.500	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-32-6	
Thallium, Total	ND	0.200	mg/L	4/17/2013 19:16	KSL	EPA 200.8	7440-28-0	HB
Vanadium, Total	ND	1.00	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-62-2	
Zinc, Total	ND	1.00	mg/L	4/5/2013 8:31	PNM	EPA 200.7	7440-66-6	



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Flag Descriptions

QB-01 = The method blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.

HB = Recovery for this parameter exceeded the upper acceptance limit. Associated sample(s) were all non-detect and therefore accepted and reported for this parameter.

Certificate of Analysis

Weber Basin WCD
Brad Nelson
2837 East Highway 193
Layton, UT 84040

PO#: 8948
Receipt: 3/5/18 11:33 @ 7.4 °C
Date Reported: 3/14/2018
Project Name: Fairfield Well Fluoride Sample

Sample ID: Fairfield Fluoride Station

Matrix: Water

Lab ID: 18C0130-01

Date Sampled: 3/5/18 10:35

Sampled By: Paul Spens

	Result	Units	Minimum Reporting Limit	Method	Preparation Date/Time	Analysis Date/Time	Flag(s)
Inorganic							
Fluoride	213000	mg/L	10000	EPA 300.0	3/6/18	3/6/18	
Metals							
Aluminum, Total	9.1	mg/L	5.0	EPA 200.7	3/9/18	3/9/18	
Antimony, Total	ND	mg/L	0.500	EPA 200.8	3/6/18	3/6/18	
Arsenic, Total	69.7	mg/L	0.500	EPA 200.8	3/6/18	3/6/18	
Barium, Total	2.40	mg/L	0.500	EPA 200.7	3/9/18	3/9/18	
Beryllium, Total	ND	mg/L	0.100	EPA 200.7	3/9/18	3/9/18	
Boron, Total	ND	mg/L	5.00	EPA 200.7	3/9/18	3/9/18	
Cadmium, Total	ND	mg/L	0.200	EPA 200.8	3/6/18	3/6/18	
Calcium, Total	265	mg/L	20.0	EPA 200.7	3/9/18	3/9/18	
Chromium, Total	ND	mg/L	0.500	EPA 200.7	3/9/18	3/9/18	
Cobalt, Total	ND	mg/L	1.00	EPA 200.7	3/9/18	3/9/18	
Copper, Total	ND	mg/L	1.00	EPA 200.8	3/6/18	3/6/18	
Iron, Total	15.2	mg/L	2.00	EPA 200.7	3/9/18	3/9/18	
Lead, Total	ND	mg/L	0.500	EPA 200.8	3/6/18	3/6/18	
Lithium, Total	ND	mg/L	0.500	EPA 200.7	3/9/18	3/9/18	
Magnesium, Total	38.2	mg/L	20.0	EPA 200.7	3/9/18	3/9/18	
Manganese, Total	ND	mg/L	0.500	EPA 200.7	3/9/18	3/9/18	
Mercury, Total	ND	mg/L	0.200	EPA 200.8	3/6/18	3/6/18	
Molybdenum, Total	ND	mg/L	0.500	EPA 200.8	3/6/18	3/6/18	
Nickel, Total	ND	mg/L	0.500	EPA 200.8	3/6/18	3/6/18	
Phosphorus, Total as P	189	mg/L	20.0	EPA 200.7	3/9/18	3/9/18	
Potassium, Total	ND	mg/L	50.0	EPA 200.7	3/9/18	3/9/18	
Selenium, Total	ND	mg/L	2.00	EPA 200.7	3/9/18	3/9/18	
Silica, (as SiO2) Total	128000	mg/L	1000	EPA 200.7	3/13/18	3/13/18	
Silver, Total	ND	mg/L	0.500	EPA 200.8	3/6/18	3/6/18	
Sodium, Total	351	mg/L	50.0	EPA 200.7	3/9/18	3/9/18	
Strontium, Total	3.50	mg/L	0.50	EPA 200.7	3/9/18	3/9/18	
Thallium, Total	ND	mg/L	0.200	EPA 200.8	3/6/18	3/6/18	
Tin, Total	ND	mg/L	2.00	EPA 200.7	3/13/18	3/13/18	
Titanium, Total	ND	mg/L	0.500	EPA 200.7	3/9/18	3/9/18	
Vanadium, Total	ND	mg/L	1.00	EPA 200.7	3/9/18	3/9/18	
Zinc, Total	ND	mg/L	1.00	EPA 200.7	3/9/18	3/9/18	

Certificate of Analysis

Weber Basin WCD
Brac Nelson
2837 East Highway 193
Layton, UT 84040

PO#: 8948
Receipt: 3/5/18 11:33 @ 7.4 °C
Date Reported: 3/14/2018
Project Name: Fairfield Well Fluoride Sample

Report Footnotes

Abbreviations

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