HAZARD RANKING SYSTEM (HRS) PACKAGE
WAPPINGER CREEK
DOWNSTREAM OF WAPPINGERS FALLS
WAPPINGER FALLS, NY

EPA ID No.: NYN000201758

VOLUME 3 OF 14

EPA Contract No. EP-S13-08-01
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March 2016

Prepared for:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Prepared by:
Weston Solutions, Inc.
Edison, New Jersey 08837

411953

REFERENCE 8

Wappinger Creek
Market Street
Wappingers Falls, NY 12590

Inquiry Number: 4397871.3
September 02, 2015

Certified Sanborn® Map Report

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Shelton, Connecticut 06484
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Certified Sanborn® Map Report

9/02/15

Site Name:	**Client Name:**
Wappinger Creek	Weston Solutions, Inc.
Market Street	205 Campus Drive
Wappingers Falls, NY 12590	Edison, NJ 08837
EDR Inquiry # 4397871.3	Contact: Scott Snyder

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Certified Sanborn Results:

Site Name:	Wappinger Creek
Address:	Market Street
City, State, Zip:	Wappingers Falls, NY 12590
Cross Street:	
P.O. #	NA
Project:	20408.016.004.0269.00
Certification #	FF03-49B0-812B

Maps Provided:

1960	1887
1945	
1927	
1912	
1897	
1892	

Sanborn® Library search results
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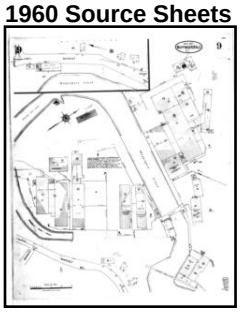
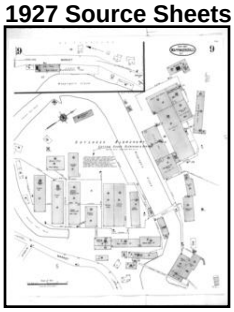


Volume 1, Sheet 9

1945 Source Sheets

Volume 1, Sheet 9

1927 Source Sheets



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1912 Source Sheets

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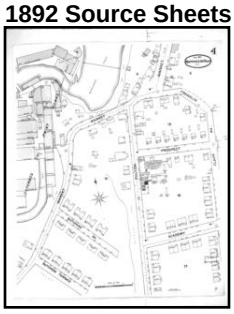
1897 Source Sheets

1892 Source Sheets



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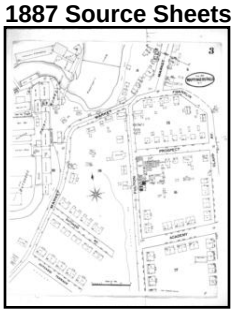

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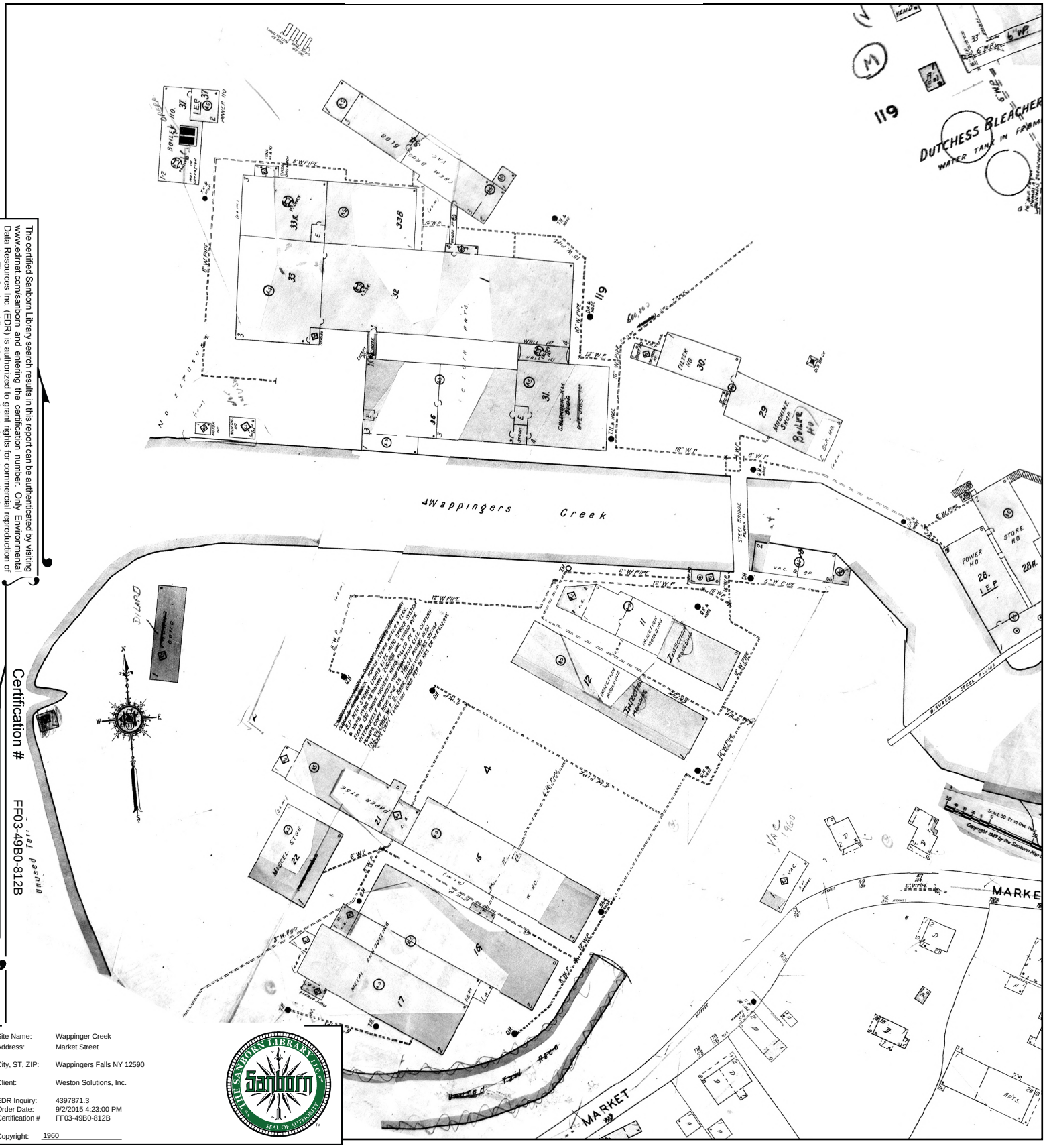
1960 Certified Sanborn Map



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Site Name:	Wappinger Creek
Address:	Market Street
City, ST, ZIP:	Wappingers Falls NY 12590
Client:	Weston Solutions, Inc.
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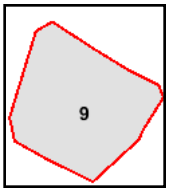

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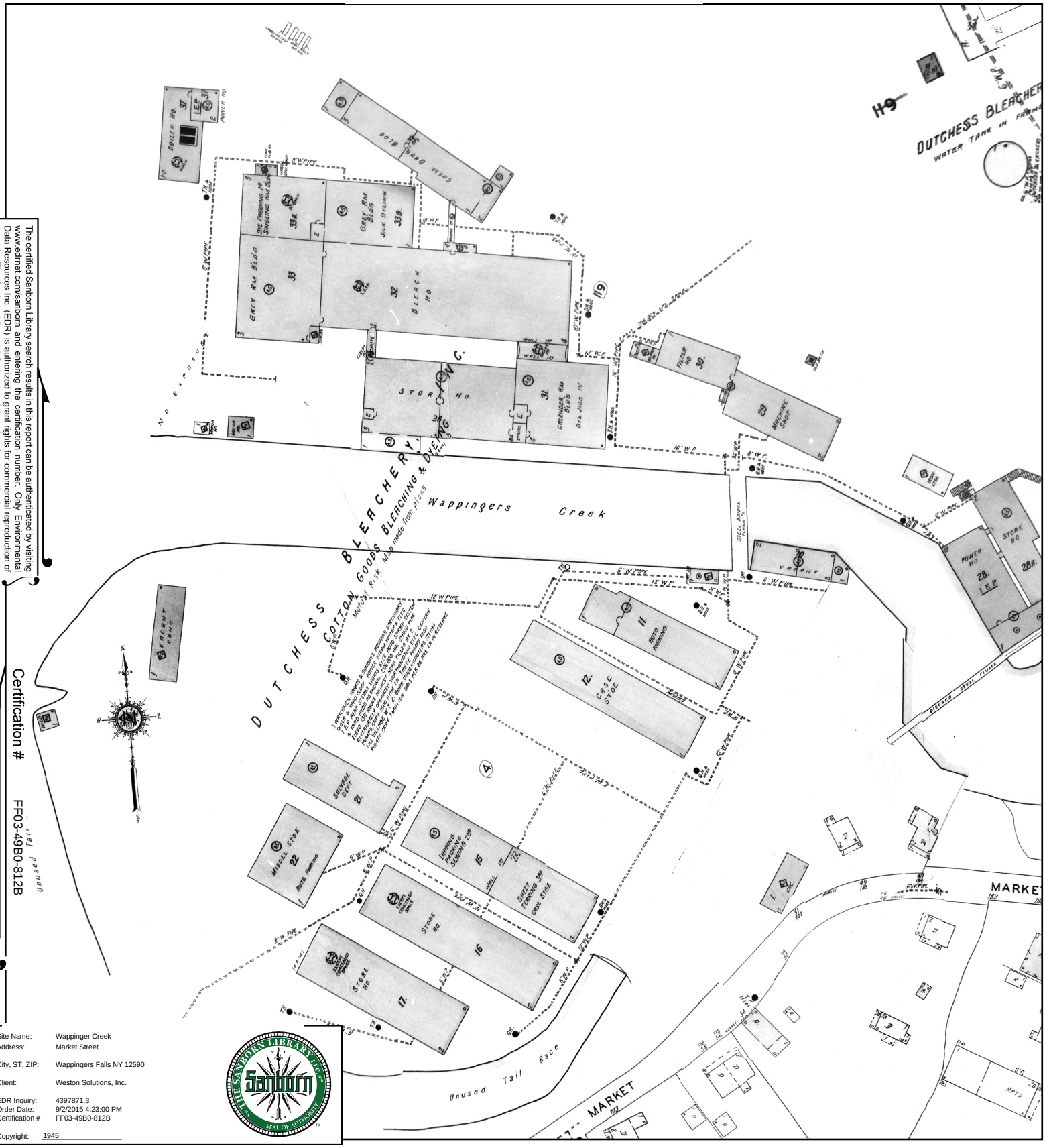

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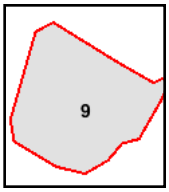

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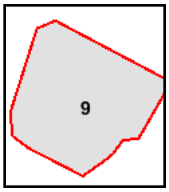

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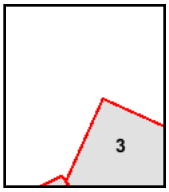

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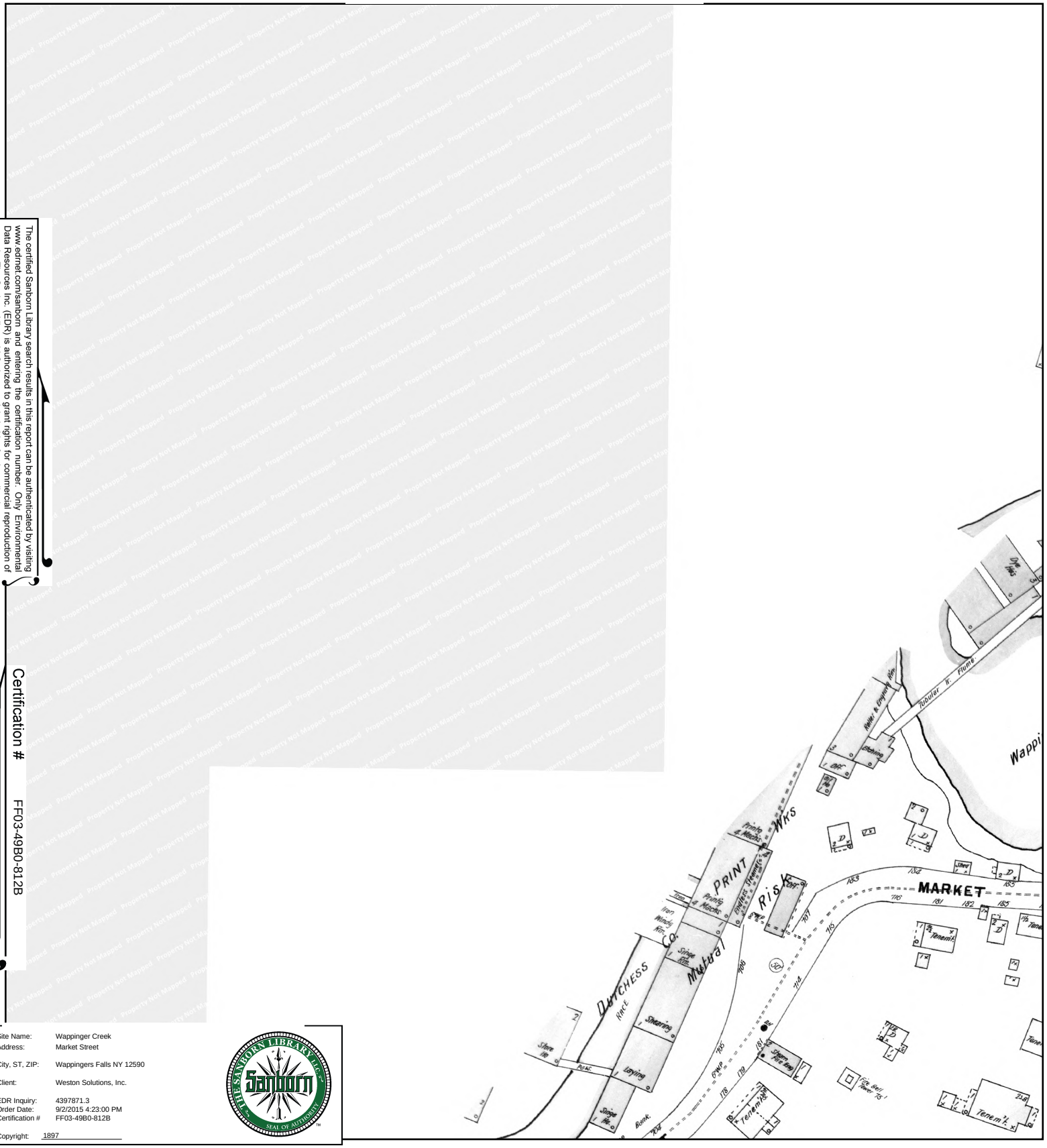

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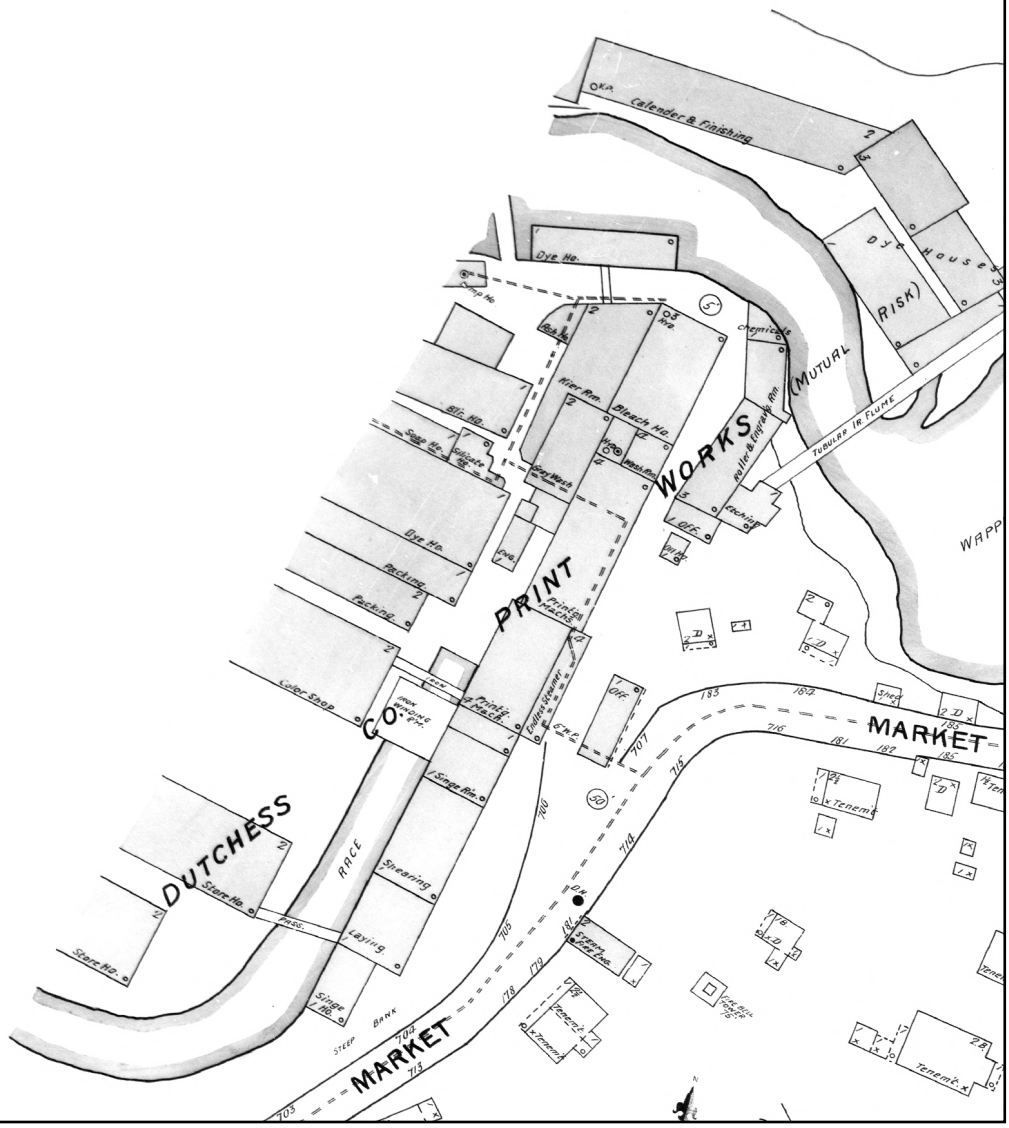

Site Name:	Wappinger Creek
Address:	Market Street
City, ST, ZIP:	Wappingers Falls NY 12590
Client:	Weston Solutions, Inc.
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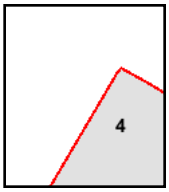

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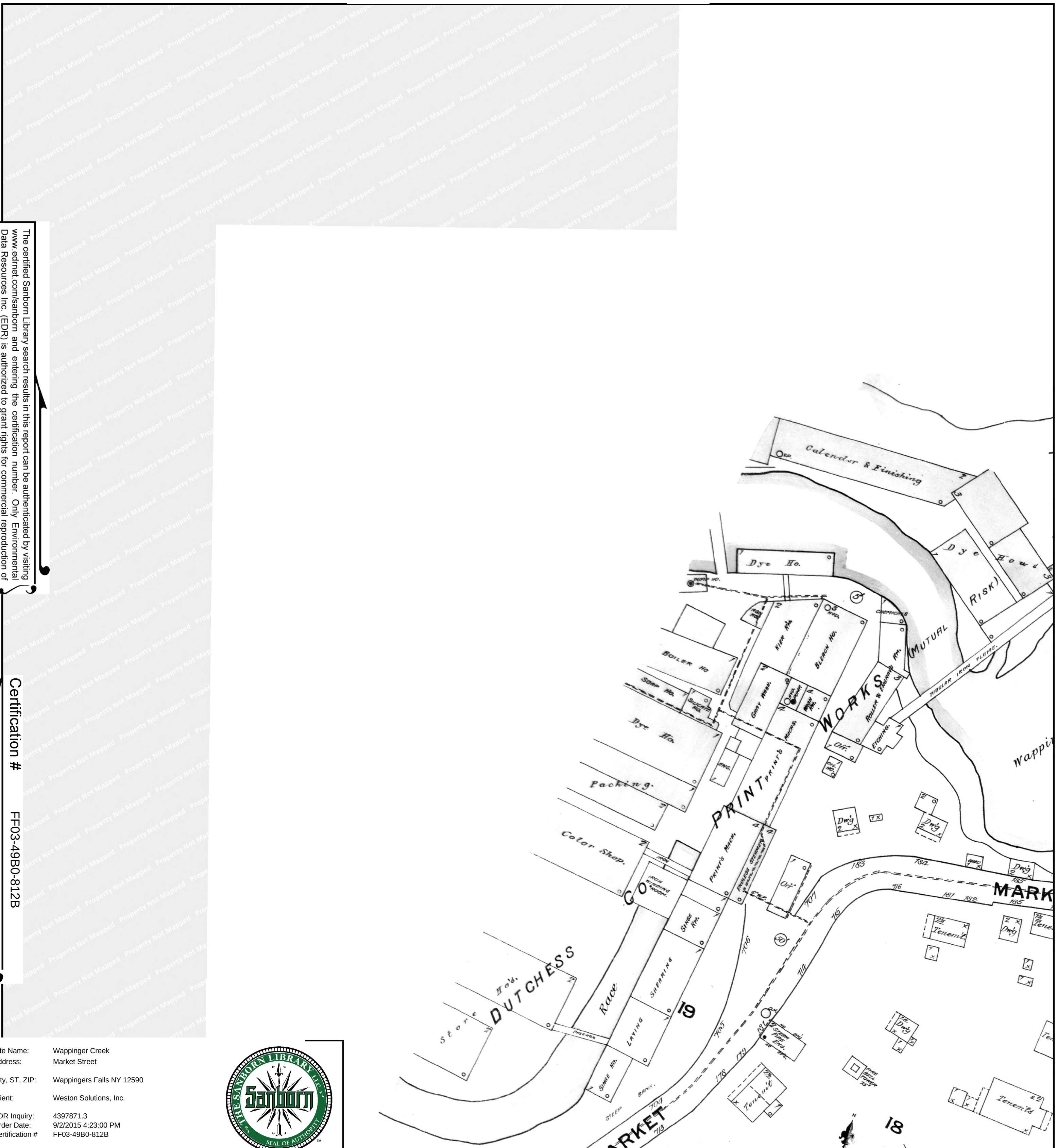

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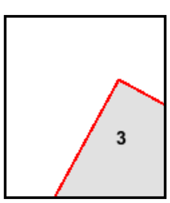

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N

REFERENCE 9

ON THIS DAY,
OCT. 14-1996,
I GIVE THIS BOOK
TO THE GRINELL LIBRARY
AS A PERSONAL GIFT.

A HISTORY OF THE DUTCHESS BLEACHERY

JOSEPH ITALIANO

1996

GRINNELL LIBRARY
26 EAST MAIN STREET
WAPPINGERS FALLS, N.Y. 12590

Preface

As a young man, I worked at the Dutchess Bleachery during my summer vacations from High School.

It inspired me to attend and graduate The Philadelphia Textile Institute in 1958, receiving my Bachelor of Science Degree in Textile Engineering.

The Dutchess Bleachery was part of my youth which I cannot forget.

This inspired me to write the story to the best of my ability.

I gathered information from various articles, periodicals, stories told to me by the Old Timers, my own personal experiences and research.

Soon there will be no one left to document what life was like in a One Company Town.

It is sad that records were not kept during that Era which will never return again.

Now, in this year of 1996, and at the age of 60 I will try to cover a partial history of the Dutchess Bleachery.

This Textile complex started in 1832 and closed in 1955, a period of 123 years.

This magnificent plant reigned as "Queen of the Hudson Valley".

May those who read this book in the future, enjoy it as much as I enjoyed preparing it.

Enjoy,

Joseph Italiano

Joseph Italiano

DUTCHESS PRINT WORKS

In the year 1830, a company was organized in Wappingers Falls, N.Y., by Mr. James Ingram and Mr. Leslie.

The company was named DUTCHESS PRINT WORKS.

It was the first Calico Printing and Dyeing Company in America.

Calico is a plain and closely woven cotton fabric.

The manufacturing site was located on both the North and South side of the lower Wappingers Creek which flows into the H udson River at New Hamburg.

From this location, the abundance of water from the rocky falls was utilized for producing steam to operate power belt driven machinery and for processing the cloth.

In order to have an abundance of water for both power and processing the cloth, a wooden dam was built across the lower Creek just below the gorge in the Falls to produce a reservoir of water.

A wooden sluice-way was constructed from this dam to produce and detour the water to the steam power facilities and for the factory.

This was later replaced by a four foot diameter steel pipe mounted on two masonary piers across the lower Creek where the tide water ends from the Hudson River.

In 1835, Mr. Thomas Garner purchased the DUTCHESS PRINT WORKS from James Ingram and Mr. Leslie.

Thomas Garner changed the name to THE GARNER PRINT WORKS.

Thomas Garner took Mr. Mangan and L.M. Thorn as partners in the business.

In 1856, the entire complex was destroyed by fire.

immediatly the complex was rebuilt and more buildings were added.

in 1866, Mr. Samuel W. Johnson bought the shares of Mr. Mangam and Mr. Thorn.

The Company now had Mr. Thomas Garner and Mr. Samuel W. Johnson as sole owners.

In 1868, Mr. Thomas Garner died and left his part of the business to his son William T. Garner.

At this point in time, the Garner Print works built more Buildings and bought many more acres of land.

They had two family houses built on Franklindale Ave. Lower Henry Street, Fulton Street, Mckinley Street. Dutchess Avenue, Dutchess Terrace and Market Street.

Around 1900, the Garner Print Works owned and rented to it's employees about 43 single family houses and 55 double houses and 20 four family houses.

The monthly rental for these houses was $10.00 per month.

Most of these houses are still in existance today.

All of the houses were heated with anthracite coal, coke or wood.

Toilets were small wooden outhouses located outside and sometimes serviced several families.

Water was carried into the houses in pails from pumps located at various points throughout the Village.

Later, hand pumps were installed in the kitchens of these houses.

Kerosene oil lamps were used for lighting.

To protect the Manufacturing Site and the company homes from fire, William T. Garner and Samuel W. Johnson started the two Fire Companies in the Village.

Today, these companies are known as the W.T. Garner and S.W. Johnson fire companies .

The Fire Companies are located on the North and South side of the Village.

The Steam Engines were the source of power for processing the cloth, and heating the buildings.

The largest Steam Engine was 2,000 Horsepower and powered the machinery in several buildings by long drive shafts, pulleys and leather belts.

The boilers consumed such a huge amount of coal, that a coal shed had to be built to store the coal.

The Company owned 30 horses and carts to transport the coal to the boilers and cart the ashes away.

The horses and carts were also used to transport finished material to Market.

The ashes were used to fill the Village streets which incidently made a perfect base for today's black top streets.

At night, the children of the Village would quietly go to the Coal Shed with burlap bags and bring home to their parents as much coal as they could carry for use in their homes for cooking and heating.

The guard at the gate knew this was going on, but never attempted to catch the youngsters for stealing coal for the survival of their families.

The work week was 6:20 A.M. to 6:00 P.M. each day, except for one hour lunch time.

To earn more money, the workers would work right through lunch hour.

This could be done if the children of the workers would bring lunch to their parents in baskets or lunch pails.

By not stopping for lunch, and eating on the job, the employees would be able to get 2½ hours extra pay by the end of the week.

On Saturday, the work day was from 6:00 A.M. to 12:00 noon.

The weekly wage for the employees was $10.00 for a 60 hour work week.

The highly skilled labor received $28.00 per week.

At it's peak employment, there were 1,200 employees.

In February - March of 1902, a Hurricane occured, which is extremely rare in late winter.

Heavy rain and melting of the winter snow, and Hurricane winds was too much for the four foot diameter steel pipe to withstand.

The steel pipe was destroyed beyond repair.

Only the masonary piers across the lower Creek are still in existance and can be seen from the shore line at the base of the gorge Falls.

In 1908, the GARNER PRINT WORKS was sold.

The entire manufacturing Plant, buildings, huge acerage of land, water rights, residential property and all assets.

Deering Milliken Co. was now the new owners and renamed the complex, DUTCHESS BLEACHERY, INC.

The Dutchess Bleachery was Capitilized at $1,350,000.

DEERING MILLIKEN COMPANY

To continue our History of the Garner Print Works, we must know about Deering Milliken Company and how these two companies were destined to come together in 1908.

Seth Milliken started the Deering Milliken Company in Portland, Main in 1865.

It wholesaled yard goods and other items and became the sales outlet for Farmsworth Woolen Mills in Maine.

Milliken was also the sales agents for many Textile Cotton and Woolen Mills including THE GARNER PRINT WORKS of Wappingers Falls.

In 1868, the Cpmpany expanded its quarters in Portland and opened an office in Boston, and moved Headquarters to New York City.

Also about this time, William Deering left Deering Milliken to establish the Company known today as International Harvester, leaving Seth Milliken the sole owner.

After the purchase of the GARNER PRINT WORKS in 1908 by Seth Milliken, major changes began to take place.

Seth Milliken was an aggressive, intelligent man, with great foresight.

Because he now had no partners, there were no stockholders.

It now became a privately owned Company.

Seth Milliken was out to revitalize and bring the Garner Print Works to an unbelievable progress and achievement never before could be possible.

Most of the old Garner Print Works buildings on the South Side of the creek were demolished, but a few of the better buildings were retained for future use.

Three of the buildings which were retained are located to the right of the property at it's entrance from Mckinley street.

Two other buildings were retained on the North side of the creek.

The old bricks from the buildings that were demolished, were given to the people in the Village who built homes, which now date back to 1908.

One of the buildings which was retained, is directly in front of the steel bridge as it crosses the lower creek from South to North.

This building was designated to become the new Machine Shop and Maintenance department.

The building attached to the left side of the building, was to be used for the water filtration and chlorination plant.

The other building which was retained was to the extreme right side, North corner, where the gorge makes a right turn.

This is a low outlined, one floor building.

It was designated to become the Hydroelectric Plant.

The company owned a huge tract of land above the rocky gorge and erected a Dam which created the Wappingers Lake.

This Dam is 20 feet high.

The water flow over the Dam in Spring is 25 cubic feet per second, at a rate of 1,000 feet per second, and 30 tons of water per second.

What remained, was how to get the water to the Plant which was situated at a much lower level.

It was necessary to construct a Race-Way or large capacity water intake from the lake.

This Race-Way has manually operated steel gates at the intake of the Race-Way.

This allowed the Race-Way to constantly have enough water supply for the Flume.

At the Exit end of the Race-Way, there are large steel grates which trap any debris and fish so as to prevent any damage to the Electrical Generating Plant.

The 9 foot diameter, ½ inch thick steel pipe begins at the Exit end of the Race-Way and extends for 1,000 feet, crossing the gorge supported by a steel bridge, and proceeding downward on the West side of the gorge, entering the Electric Generating Plant.

The steel Flume assembly was the largest Engineering job in the Village.

This was the first time concrete pillars were used to support the pipe.

So much concrete was needed, that the concrete was mixed at the site with a portable steam concrete mixer.

This steel pipe was assembeled in sections..

A large rotating steam driven hoist was used to place these sections of pipe in the proper positions.

On July, 1909, while lowering one of the sections onto a concrete pier, one of the guy cables broke.

Part of the steel section fell into the gorge,

The derrick mast swung around instantly and trapped the operator of the hoist against the machine and crushed him to death.

The main flow of water from the Flume was split into three lines leading directly into the drive assembly of the Hydroelectric Generators and after flowing through those passages, the exhaust water went out large pipes emptying into the general flow of the Wappingers Creek, thus, electric power was established.

In an offset from the Flume, process water was fed to an established water filtration and water softener Plant to the left of the Machine Shop building which was retained from the former Garner Print Works.

From the water treatment Plant, there were feeds of processed water in large volume, to the Plant processing and to the Boiler House for steam generation.

The Hydroelectric Plant had a 2,000 horsepower water Turbine with a 1,200 KWA General Electric Generator and a 500 Horsepower water turbine all connected to a General Electric Switchboard.

At this point, it should be mentioned that these General Electric Generators were the first generators manufactured by General Electric in Schenectady, N.Y., and the first to be installed in the United States.

The first Generator arrived one morning pulled by 8 horses on a great and strong wagon.

It was bound in huge chains and timbers, ready to be installed and attached to the Turbine.

The Hydroelectric Plant was completed and operational in 1910, replacing coal fired steam engines forever.

This Hydroelectric Plant produced enough electric power to keep the Textile Plant operating and enough electric power to supply electricity to the Company homes, Village homes and stores, churches and the Grinnell Library during 1912-1916.

This replaced kerosene oil lamps forever.

In early 1920, the Dutchess Bleachery sold it's excess electric power to Central Hudson Gas and Electric Co.

This is known as slop power.

While all this activity was going on at the Lake and Flume, Seth Milliken ordered a new building to be built on the North side of the creek,close to the Electric Power Plant.

Old wooden buildings were demolished, and the area cleared for the construction of the Manufacturing Plant.

First, wood piles had to be driven in the ground and onto solid rock.

The basement floor was solid concrete for a strong foundation.

The building is four stories high and solid 18 inch thick brick walls.

There are two fireproof iron and brick stairways on each end of the building.

Also, there are two large freight elevators on each end of the building.

The floors are made of 16 inch North Carolina Pine timbers supported on steel columns.

The flooring also consisted of four inch tongue and groove North Carolina yellow Pine.

This floor was then covered with 1 inch hard Maple finished floor.

An automatic Fire Sprinkler System was installed throughout the Plant.

This system was one of the first Sprinkler Systems used in a Factory.

9

Originally, the large Steam Generating Boilers were fired with coal and in later years converted to firing by oil.

In each of these forms of Boiler fuel, another interesting aspect was involved.

Dutchess Bleachery was a BIG PLANT that required supplies and auxiliaries in large volumes.

Such was the case at the Boiler House.

The Wappingers Creek was a Tidal Stream in it's flow below the gorge and falls.

As the Tides came up from the Hudson and receeded to the Hudson, the Creek was Navigable for Tugs and Barges right up to the Company Dock.

Also, it was subject to rules and regulations set forth by the Port of New York Authority.

The lower Creek was Tidal Water Area.

With the lower Creek being deep enough at High Tide, the passage of Tugs and Barges owned by the Dutchess Bleachery brought full loads of coal to be unloaded into large coal storage areas.

Later, when the Boilers were converted to oil firing, three oil tanks, each with a capacity of 630,000 gallons were installed in the area previously occupied by the coal storage.

It was necessary to have enough fuel oil on hand and stored in these tremendous tanks, because during the Winters, the Hudson River froze and so did the lower creek.

With all that ice , the Tugs and Barges could not navigate.

Enough land was left for digging of an effluent collecting and newtralization pond to stabilize the effluent as it was let into the lower Creek on an outgoing Tide.

Transportation facilities for both incoming and outgoing goods were of equal importance to the other factors and there was the Railroad, New York Central, at the shore of the Hudson River at New Hamburg with good unloading and loading docks and equipment on hand.

Perhaps typical of early plant practices and relationship between the plant and its location in the Village, the establishment of electric generation and water treatment at the plant developed into a spin-off of providing electricity to the Village as well as becoming the water supply plant.

There were two public utility divisions established and the Bleachery owned and operated the poles and the wires, etc. of the electric supply and after giving the water to the Village purification treatment, such as chlorination, as needed, the Company supplied that as well.

The water supplied to the Village, its treatment and testing, were part of the Plant Laboratory's responsibility and, in turn, their performance and results were monitored by water samples sent off regularly to the New York State Labs in Albany.

Later on, the Dutchess Bleachery electric supply to the Village became a blockage to Central Hudson Gas and Electric in their expansion program, and they made a deal to take over the supplying of electricity to the Village and buy from the Bleachery excess power, known as "slop power" which was generated in excess of plant needs.

With the ownership of the water rights to Wappingers Creek all the way for thirty-some miles, the Company established a series of smaller dams along the way and the heights of these dams were adjustable to govern the flow, conserve water, not lose water on heavy rain run-offs.

In like manner, a flow gauging system was set up to record the flow of the Creek water into the lake and direct reading from strip charts gauging stations had a direct relationship to strip charts recording at the generation of electricity at the Plant.

N ow that all the major construction projects were about completed, came the purchasing of machinery.

Seth Milliken, being a man of vision and progress, bought all new and the most modern and effecient Textile machinery available at the time.

This Textile machinery was for the Bleaching, Finishing, sewing of cotton material.

The proccess of bleaching material at the Plant was for the manufacturing of sheets and pillowcases.

A bout 20% of production was devoted to this proccess.

The remainder of the production was for the bleaching of material for other end uses, such as bleached material for printing patterns for the Women's Dress Trade, highly starched and stiffened fabrics for sandpaper backing, insulation material for General Electric wires, for DuPont company for various uses in their products to mention a few.

The first floor of the Bleachery building was the only floor that was concrete, beside the basement floor.

This floor had to be concrete, because this is where the bleaching and washing of the material was done.

In the industry, this is known as wet processing.

The second floor was where the finishing of the material was done.

Finishing consisted of the application of starch to the fabric, drying, and setting the proper width.

Sanforizing was done to set the shrinkage and setting the proper touch and feel of the material.

The third floor was where the material was cut to the proper sizes for the various size sheets and pillow-cases.

Here, there were about 100 women who sewed the hems on the sheets and pillowcases.

PARTNERSHIP PLAN

On September, 1918, THE PARTNERSHIP PLAN went into effect.

This Partnership Plan was created by Management and elected representatives from each Department to represent Labor.

The Board of Operatives was intended to represent the interests of the workers in the Bleachery.

Mr. Harold A. Hatch, Treasurer of the Company has said,: "three things constitute a partnership. First, a just and proportionate share of the profits and losses of the business, second, an appropriate share in the management, third, a knowledge of the affairs of the Company".

When reading the features of this plan, keep in mind that this started in the year 1918.

The plan was 16 years ahead of its time, for it wasn't until 1934, when President Roosevelt introduced to Congress, these same plans, and only a few ever became the Labor Laws for the entire United States.

Profit Sharing: This was a 50-50 proposition.

The Market wage for Labor is paid to Labor, and a minimun of 6% is paid to Capital.

After these have been paid together with regular operating expenses, depreciation reserve, taxes, then 15% of the net profit is set aside for Labor and 15% for Capital.

The 50% set aside for Labor was divided in proportion to the amount of each one's pay and distributed once in every two months.

It would be too lengthy to describe each of the other provisions in detail at this point.

However, I have listed the provisions as follows:

The Working Conditions Committee:

Reports to the Board all matters of wages, hours, sanitation, ventilation and the comfort and safety of workers.

Housing Committee:

Has charge of Company Houses, sets rents, decides upon repairs, recommends improvements, hears requests or complaints from tennants.

Life Insurance:

The insurance went into effect after the employee has been employed by the Company for two months.

It was carried by Equitable Life Assurance Company.

The insurance amounted to one year's pay and was provided by the Company without cost to the employee.

Savings Plan:

To make it easy for the employees to save money, a collector from each Department, who was Bonded, collected from each employee on pay day, who wished to participate in this plan.

Vacations:

One week Vacation with pay for every employee after one year service with the Company.

A few employees at a time in each department were allowed to take Vacations, so that there would never be a complete shut down of the entire Plant.

Accident-Compensation Insurance:

In case of accident in the Mill, the employee will receive free Medical Care and if seriously injured, a definate compensation.

A partial pay is also allowed if an employee is disabled and unable to work.

Playgrounds:

The children's play ground was located on Fulton Street.

Carefully supervised play and valuable training to all children of the Village was conducted.

The location was shady and beautiful.

The apparatus included: swings, slide, see-saws, sand box, baby seings, small baseball field and Basketball Court.

Cooking Clubs, Sewing and Dressmaking Classes were also tought by the Women in charge.

Home Nursing was taught and Gardening where Children learned Vegetable Gardening.

The Playground was supervised by competent Supervisors while the Parents of the Children were at work in the Bleachery.

However, this Playground was also open to all the Village Children.

(today, we know this as Day-Care Centers).

Village Club House:

Was to supply a Club and Meeting place for the workers of the Bleachery and to act as a Social Center for the Village.

Its facilities of gymnasium, reading room, shower and baths, kitchen, class rooms, player-piano, gramaphone, moving picture machine, cards, Newspapers and Magazines.

Education Classes were also conducted in Stenography, Typewriting, English, Civics for Italians, and the study of Italian for Foremen and others who may be interested.

Other classes were formed to include Cotton Manufacturing, Bookkeeping, Accounting, also simpler Arithmetic, Spelling, Reading and Writing.

The Club House was located at East Main Street.

GRINNELL LIBRARY
26 EAST MAIN STREET
WAPPINGERS FALLS, N.Y. 12590

ATHLETIC FIELD

One of the finest Baseball and Athletic Fields in the County was developed by the Board of Operatives on lower Market Street.

The high banks around two sides of the field made a natural Stadium from which a fine view is obtained of the Diamond.

The field was used for Carnivals and Pageants.

Some of the names of the baseball teams were:
SUNSET LEAGUE.....ALL WAPPINGERS,.....IRONTOWN CUBS.

A monthly newspaper called BLEACHERY LIFE was published to promote intelligent understanding, progress, and good will.

Accident-Compensation was put into effect.

Fire Brigades were formed in each Department, and Fire Drills were carried out periodically.

SAFETY

Safety was very important aspect, and a safety committee was organized for the concerns of labor and management alike.

Representation of workers on matters affecting safety and health was very important to the Company.

Both the Committee and Management were anxious to make conditions the best possible and the Dutchess Bleachery enjoyed a fine Safety reputation.

It was highly respected and influencial.

SUGGESTION PROGRAM:

Prizes from $1.00 to $10.00 were awarded to employees regarding improving Machinery, Methods, Management, Eliminating Waste.

This was done using a numbered suggestion card provided in racks in each Department.

No signature was required

The suggester retained a numbered Stub.

After reviewing the suggestion, Management would post the number of that suggestion on the Department Bulliten Board.

The Suggester with the numbered stub, would then go to the Main Office to collect the award money.

Mass Meetings:

Mass Meetings were held monthly at which time the profits and or losses were announced by the Manager, and explanation was made of the forces which affected production, effiency.

This Partnership Plan worked so well, that Executives from other Plants and other Industries came to the Dutchess Bleachery to see for themselves how effective the plan was.

The PARTNERSHIP PLAN ADDRESSED THESE AREAS:

Housing Committee
Recreation and Education Committee
Stock Purchase Plan
Life Insurance
Savings Plan
Vacations
Club House
Educational Classes
Athletic Field
Supervised Playgrounds
Bleachery Life (Monthly Newspaper)
Safety
Accident - Compensation Insurance
Effeciency and Production
Suggestion Plan
Mass Meetings.

Capital supplied good buildings, good machinery and equipment.
Management supplied skilled direction and trained leadership.
Labor provided good, careful, watchful intelligent work.

The manufacturing proccess was divided into Departments as follows:

Grey Goods as received from the Looms
Singing Dept
Bleach House
Starch Room
Mercerizing and Finishing
Calender Department
Dye House
Sheet and Pillowcase Dept. (10)
Folding and Packing
Shipping and Storage
Office
Boiler House
Mechanical Dept. (Maintenance)
Electrical (Hydroelectric Generating)

It should be noted at this point, that the Bleachery employed a registered full time Nurse, with her own office and Emergency First Aid Room completely supplied.

This also was a first in American Plants.

In 1918, a "Back Entrance" to the mill on the Channingville side was being considered.

On January 1919, the entrance was completed and opened.

Over 57% of the employees lived on the North side of the Mill.

The entrance started at the end of Givans Avenue and had 76 steps leading down to the Mill Yard.

During the First World War, the company was working at full capacity with much overtime to meet Government Contracts.

The Dutchess Bleachery bleached Duck Cloth for Navy uniforms, Dyed Khaki for uniforms and tents.

It bleached and finished Aeroplane linen material to make wings and fuselage for American and English Aeroplanes.

During this War, the Employees at Dutchess bought $200,000 of LIBERTY BONDS to contribute to the War effort.

In June 2, 1919, the working hours were reduced to 48 hours a week with a 15% increase in pay for the hourly paid employees and also a 15% increase for those on piece work rate.

In 1919, the sale of the Company houses went into effect.

The Company offered the houses at 66% of their value and on an installment plan if desired.

One half of the duplex houses could be bought for $800.00

This furfilled the dreams of many, to be able to own their own home here in America.

In 1920, all production records were broken, the Bleachery processed an average of 5 million yards a month, 60 million yards total for the year.

Some employees bought their homes with the profit sharing money that year.

In 1919, workers received their individual share of the profits, which ranged from $300.00 to $400.00.

Very few workers who had worked for a short time in 1919, received $150.00 to $200.00 for that year.

In this same year, there were now 170 families living in the company houses.

The payroll at the Bleachery as of May 20, 1919, was $9,000 a week.

The average yearly earnings for the worker was $1.280.

There was no such thing as Federal or State Taxes at that time.

The average pay for a 48 hour work week was $26.50.

On March of 1921, stock was offered again to the employees at $43.50 a share.

56 workers took advantage of the opportunity to buy stock.

A total of 521 shares were sold.

GREY AND SINGE ROOMS

First order of processing:

The word GREY as referred to here, is a Textile term for material directly from the Loom.

The word comes from the word GREIGE in French, which has nothing to do with color, but the material contains starch in the threads to give the threads more strength during weaving.

Also, Grey goods contain foreign impurities such as loom oils, irregular fibers in the thread, water soluble tint on the yarn to distinguish the type of yarn used.

The Grey Room is the first department to receive the bales of woven cloth from the cotton mill and start them on their way through the Bleachery.

The Grey Room has to keep the entire mill fed with cloth or production falls down along the line.

Each day, there is a certain number of orders made up into 6,000 to 10,000 pound Kier loads, sent down to the Greige Room to be ordered from the Store House, to be put into process.

After the bales of woven material is received, they are weighed, and placed on the floor to be opened up and examined for hook holes, iron rust, mildew, or oil damages.

Also, 10% of each lot is taken and examined for weight, width, construction, strength, color of cotton and general appearance of cloth.

After examination, the lot and kier numbers are marked on each end of piece laid out on trucks holding about two bales each and pushed over to the sewing machines for the girls to sew the ends of the pieces together, thus getting the cloth into continuous rope form, so that it runs through the pot-eyes (cloth guiders) from room to room.

The goods that are not to be singed, are run directly into the Kiers, where they are boiled under steam pressure.

When the material is received in the Singe Room, the ends are straightened out and made ready to be run over the Singers.

All goods up to five yards per pound are run over the plate singer...two red hot plates on face and two plates on back of cloth.

All goods over five yards per pound are run over the flame of the gas Singer, using a certain number of burners, according to the weight of the cloth.

Extreme care has to be taken by the operator to adjust the cloth properly in order to avoid excessive pressure on the Plate Singers or excessive heat on the gas Singers that may result in burning the cloth.

After the pieces have run over the singers, they pass through a water box and squeezer rollers in order to prevent any sparks remaining on the cloth and causing fire in the tubs where the material lie to steep before being pulled into the Bleach House for the next process.

The water box contains water and a chemical called ENZYME.

These ENZYMES are used to desize the starch from the fabric.

The material is then put into large holding bins for 24 hours, allowing the ENZYMES to attack the starch and disolving the starch.

The next operation is to wash away the disolved starch and free the cloth from any impurities.

In the year 1920, all production records were broken.

That year, 20 million yards of material was processed through the Bleach House and throughout the entire Plant.

BLEACH HOUSE

Before I discuss the Bleaching process, I must explain what a KIER is.

A Kier is a large stainless steel container or Vat where material is placed inside.

The height of a Kier is approximately 20 feet and 6 feet in diameter (a tremendous pressure cooker).

When filled with material, the lid is secured on the top.

Then, under pressure, water and chemicals, the cloth is washed, scoured, boiled, bleached and rinsed.

Caustic Soda and Soda Ash is used to saponify the natural coloring matter, waxes, impurities that are present in cotton fibers.

This rendered the impurities soluble.

Chlorine bleach was added to the Kier ingredients which whitens the cotton properly to a beautiful white color.

The Bleachery operated 24 high pressure Kiers, each had a capacity to bleach 6,000 to 10,000 pounds of material.

The quantity of bleach needed was so enormous, that the Bleachery manufactured its own bleach using chlorine.

This was done is a seperate building and pumped to the Kiers.

When the bleach was prepared there was enough bleach to supply the Bleach House for 24 hours at a time.

Some of the cloth which was bleached in these Kiers at Dutchess Bleachery, included dress goods of all kinds, mercerized fancy goods, pongee, poplins, organdies and Batiste, Linen, Cambrics, Muslin, sheeting, pillowcases, towels and toweling.

This being completed, the goods were then "Soured".

This process was accomplished by using sulphuric acid, which removes all traces of lime, iron stains, or any other sediment which may be left on the material.

After "Souring", the material is washed through machines to remove all traces of acid and placed in Bins.

The Bleach House was equipped with 24 of these washing units.

These machines could be run individually or in conjunction with eachother.

The material is now ready for the Finishing Process.

A perfect bleach is essential to get the best Finish, and if the goods are improperly bleached, and then Finished, it is impossible to get the desired Finish.

Good clean water, clean machinery, clean bins, and clean and attentive workmen were the assets for good work.

STARCH & FINISHING DEPT

The material comes to the starch and finishing department from the Bleach House.

All the material must be unraveled and opened up to full width and flat before any other process is to take place.

The goods may come to the Finishing Room in a half dozen different weave constructions, and must be seperated and sorted out by lots for different finishes and send them to their proper processes, either for heavy Mangling or light Mangling where the starch and finish is applied.

The Mangle consists of two large hard rubber rollers, one above the other.

Pressure is applied between the rollers to control the amount of Finish applied to the cloth.

The material, in open full width passes into a long narrow metal box which has a brass roller that is free rolling.

The starch finish solution is pumped into this long pan .

The material, unraveled, flat and open width is threaded into this formulated solution of starch passes under the brass roller, up to and between the hard rubber rollers under pressure.

This is how the starch solution is applied.

Next, the material goes directly onto the Drying Cans.

Dry Cans are several large heated drums in a horizontal position, arranged in tiers.

These drums are wide enough to accommodate the width of the material.

The cloth is threaded through the drums, making contact with the large area of the drum.

The Bleachery had a Dry Can unit of 21 wide horizonata cans, the width of these cans were 120 inches, that would accommodate wide sheeting which was 108 inches wide.

Next operation was Tentering Framing.

This machine holds out the cloth, dries and stretches the material to its proper width.

The Bleachery had 5 such frames.

Some material required Calendering.

Calendering is a mechanical method done by rollers with tons of pressure exerted to provide a glaze, glossiness, hardness, luster, sheen to the material.

Calender pressure on the Rollers was 10 to 30 Tons.

Mercerizing is a process by which cotton takes on a permanent silken luster when treated with cold water and Caustic Soda at room temperature.

This allows the cloth to become stronger and more absorbent.

Different grades of goods are different in their proccessing to meet customer requirements and finishes.

The Export trade alone required about 300 different finishes from the lowest to the highest grades of goods.

To go into detail on the formulas for the different finishes would be too extensive to go into detail at this point.

SHEET AND PILLOWCASE MANUFACTURING
(Department 10)

Nobody knows how this Department ever got its name as Department 10, but it seems to always been that way.

The cloth comes to Dept. 10 principally from the Packing Room in piece goods, "doubled", and the yards counted out and marked on each piece.

The "tearing" Room is located next to the Packing Room.

The truckers, therefore, bring in the cloth and either take it directly to the tearers or stack it on the benches until needed.

Instructions are issued from the office, giving details as to size and description of sheets and pillow-cases or bolsters desired by customers and the tearers are instructed accordingly.

The tearers after measuring off each sheet, nick the goods on the edge with a knife which is attached to the table and then grasp the cloth with both hands and "tear" it across the width.

A layman always wonders why we do not cut the goods instead of tearing them in this way.

This is explained by the fact that it is impossible to follow the weave with a knife or scissors and the result would be the cutting across of some of the threads, which would result in a crooked sheet after washing.

Tearing, however, follows the weave and produces straight sheets which do not "creep" off the bed.

The tearers count and bundle the goods in two-dozen lots and they are then trucked to the sewing room.

Here, there are about 100 electrical driven sewing machines on which the girls hem the ends of each sheet, finishing them either with a plain hem, or hemstitched or spoke-stitched.

The plain hem consists of plain stitched three-inch hem on one end and a one-inch hem on the other end.

Pillowcases go through similar operations and in addition, have to be sewed up the sides and across the bottom.

Pillowcases are then turned, leaving the seams on the inside.

Turners, as they were called, also inspected for any defects in manufacturing.

Sheets go to inspection tables, where they are inspected, for any defects either in material or manufacturing and are folded.

Both sheets and pillowcases are then sent down to the big steam mangle, where they are pressed and all the creases taken out, leaving them smooth and unwrinkled.

Thread-cutter then snip off any threads which may be hanging on the selvage edge of the sheet as they have come from the cotton mill, leaving the goods trim and neat.

Pillowcases after mangling are folded and again inspected.

Before describing the remaining operations, I wich to describe the scalloping of sheets and pillowcases.

A specail sewing machine sews a scallop on the wide hem so perfectly that it looks like beautiful hand work.

Scallop cutters then cut out the goods along the line of the scallop with scissors.

This is a skilful operation and is done with great care, thus avoiding cutting the scallop.

All goods then go to the ticketing and bundling tables, where each article is ticketed and then tied up in dozens.

It takes extreme care to keep the 205 different tickets straight and get each one on the correct sheet, pillowcases and other orders.

The goods are then wrapped in paper and tied up and labeled on the outside, showing contents.

A trucker then brings the packages to the Packing Room, where they are packed in cases and shipped to the customers all over the United States and in Foreigh Countries.

The system provides for following all goods through the entire process by a tag with coupons covering each and all operations so that it is possible to locate the operator who did each operation on the goods, and thus check up on both good and bad work.

Most of the sheets and pillowcases were packaged for the retail trade for Montgomery Ward, Sears Roebuck.

Then there was the packaging for wholesalers, Domestic and and Export that was packaged differently.

It appears that in the early years, most of the folks in the Wappingers Falls area were English, Irish and Dutch descent, but later on there was an important influx of Italians, some of whom were originally brought to the area by Stoneco, (New York Trap Rock), a rock quarry that crushed rock products, and the Italians from these families became an important part of the Wappingers Falls culture and business.

In like manner, they made first class operatives, both men and the women.

The women fit into the organization very well for there was a demand for sewing machine operators, and that was really their trade.

At Stoneco, there were no jobs for the needle trade.

Here at the Bleachery, both the men and the women found jobs, and it was full time employment all year.

At Stoneco, the operation had to stop for several months out of the year because Winter would set in, and the Barges which carried the stone to market could not navigate because the Hudson River was frozen over.

In March of 1920, a mass meeting was held at the Plant.

It was announced that Seth Milliken Died.

Sympathetic emotions ran high among the employees.

In his Will, Seth Milliken left to his Son, Gerrish Milliken, the entire Milliken Company.

By this time of 1920, Milliken owned the Dutchess Bleachery and 28 other Textile Mills, some in New England, but more in the South.

During the Depression, 1929-1940, the Dutchess Bleachery maintained full employment.

Other companies throughout the United States were going Bankrupt and mass lay-offs were occuring everywhere.

Gerrish Milliken guided and kept Dutchess operating without any lay-offs.

There was full employment at Dutchess throughout those terrible years.

September 22, 1938, another Hurricane struck.

Flood waters again were higher than the steel Bridge.

Water at normal level is usually 14 feet below the Bridge which spands the lower creek North and South.

The basement of the Main Plant was flooded.

Within days after the Hurricane, the basement was back in operation.

During the Second World War, the Dutcgess Bleachery was producing a wide range of fabrics according to Government specifications.

Certificates of Necessity were issued by the War Production Board to Dutchess to obtain goods on the High-Priority list for Military use.

Women took over jobs as machine operators to replace the Men who were drafted into the War.

This was the case throughout all American Industry during the War.

In 1947, Gerrish Milliken died of a Heart attack while playing Golf with his Son, Roger Milliken.

Gerrish Milliken willed the entire Family owned Milliken Company which now consisted of 40 Mills, to his Son, Roger Milliken.

In Waterville, Maine, Milliken owned the Lockwood Plant which was one of the 40 Plants.

Lockwood was a Weaving Plant, that wove wide sheeting material.

Muslin and Percale was their finest line of sheeting.

This sheeting material was shipped directly to Dutchess for Bleaching and manufacturing of sheets and pillowcases.

Around 1948, it was decided to merge these two Plants and name the Company LOCKWOOD-DUTCHESS.

This arrangement was satisfactory, because Dutchess bleached material for other customers for various end uses.

The sheet and pillowcase business was about 20% of the Bleachery's production.

In 1955, the North East was slammed hard by Hurricanes Connie and Diane, which roared through our area eight days apart in August.

The water was so high, that one could stand on the stone Bridge in the Village and practically touch the water.

Twenty five inches of rain in an 8 day period fell.

The Bleachery was hit hard.

After the storm stopped, all the employees pitched in to clean up the mess.

The Electric Generators were dried out, mud and debris were cleaned up, motors and machinery on the basement floor were dried out.

Within 10 days, the Plant was back in operation.

During the Summer of 1955, there were major Textile workers strikes throughout all of New England.

The Lockwood Plant in Main was involved in a long and bitter strike.

Production at the Bleachery continued as usual.

There was enough backlog of material in the warehouse to keep the Plant going.

At Milliken Headquarters, Directors and "Consultants" to Roger Milliken, who were not knowledgable of all the natural assets, prime location, skilled labor force, who never once came to Wappingers to visit the Plant, advised Roger Milliken to cease operations of both the Lockwood and Dutchess Plants.

Roger Milliken had reservations about closing Dutchess, but was persuaded to close the Northern Plants and concentrate on Southern expansion.

Milliken, at this time, owned 40 Textile Plants in Spartanburg, Clemson, Pendelton South Carolina, North Carolina, and Georgia.

Mr. Abe Damon, the Plant Manager at the Bleachery tried desperately to convince Milliken to keep the Plant in Wappingers operating.

He stressed that Dutchess could survive and be profitable by breaking away from Lockwood and returning to the independent and seperate identity it was before the merger with Lockwood.

Meeting after meeting, Mr. Damon argued, showed facts and figures and projections on how Dutchess could remain profitable if left to operate independently.

Mr. Damon explained that the sheet and pillowcase operation was only 20% of the Plant production.

Dutchess did not depend on the Lockwood Plant for survival.

Dutchess had contracts with General Electric, DuPont, Westinghouse, Minnesota Mining and Manufacturing and Armstrong Cork, for Industrial Fabrics in their Companies.

Plus, there were a series of smaller Companies who contracted with Dutchess for bleached goods for Domestic and Export trade.

Dutchess still had the manufacturing line set up to produce sheets and pillowcases if desired, for Lady Pepperell, J.P. Stevens, and Burlington Mills.

These Companies did not have their own Plant to bleach the cotton fabrics and do this type of manufacturing.

While Mr. Damon was negeoating to keep the Plant operating, here are some of the employees comments:

Miss Winifred Schmidt, who has worked in the sheet manufacturing department for many years said "I want to work here as long as I am able. I'm old enough to retire now, but I don't want to".

Mr. Raymond Bain, completing 42 years at the Bleachery as Manager of the prepatory Department said " We must take the waiting and see what will really happen".

Patrick Ward, in charge of service department in the Finishing section, " I was here when they built the new building in 1910. I hope the Bleachery never closes down".

John Sanfilippo , " I worked here since 1929, we worked through the Depression and we survived".

Francis J. Bain, Plant Engineer, started to work at the Bleachery in 1913. "We are all waiting for the decision and what is going to happen.

Leo Di Donato, Master Mechanic, has been at the Bleachery since June 29, 1921, " I've never seen the situation as grave as it is now." "Some of my Brothers-in-law work here also". "I don't know what is going to happen if it is decided to close the Plant" "What will we do"?

Louis Diehl, " It will be felt very much in the Village if the Bleachery closes". "A lot of people would be out of work, it will be hard for the older people to get new jobs.

Miss Josephine F. McKay, Secretary, " I don't know what they will do here if the Bleachery closes." " It is very serious, the Village depends on the Bleachery." " The older people will have trougle getting jobs, They've worked at the Bleachery all their Lives".

Carolyn Relyea, Village Trustee, "It's an unfortunate situation. I hope the Bleachery can be reorganized or sold to another company. If they do liquidate, a lot of Village people will be affected. The Bleachery pays a lot of Taxes here. I don't think the property would remain vacant long, it is too valuable."

Charlie Williams, Village Trustee, " It's too valuable a Plant to be left vacant. When I was a Boy, they employed about 1,200 people. It would make a lot of difference if the Bleachery closed up. It provides a lot of money in the Village".

Needless to say, it was the darkest and saddest day when Mr. Damon read a formal letter to the employees at Dutchess that the Plant would be closing, the machinery liquidated at auction, the Building and property would be broken down into seperate parcels and sold individually.

The floods and the Hurricanes of the past had nothing to do with the decision to close Dutchess.

The Dutchess Bleachery was resilient in recovering from floods and Hurricanes every time.

It wasn't a case that Milliken needed the money from the sale.

At that time, Roger Milliken owned 40 Mills in the Southern States and was building 10 more new modern Plants, in North and South Carolina, bringing the total number of Plants to 50 Mills under the Milliken banner.

The auction and sale of the Dutchess Bleachery and the Lockwood Plant was held in the Summer of 1956.

B.N.A. Company by Mr. Norman Kanor bought the largest parcel.

It contained the Hydroelectric Plant, the Lake, the Machine Shop building, water filtration and softening Plant, the four story brick building, the Boiler House with its 3 oil storage tanks and a few seperate detatched individual buildings.

Norman Kanor was the principle partner of B.N.A. Realty.

Kanor ran the Hydroelectric Plant for a while, then sold all the copper in the generators, the copper switchboard pannel, all the high tension copper heavy duty wires to a junk dealer.

One summer evening, the Generator made her last revolution and came to a halt.

The next morning, workmen arrived in trucks, carrying tools and cutting torches with heavy hammers and wrecking bars.

As the days passed, the men tore at the Generator's insulation, seeking the copper.

Day by day, the generators were reduced into smaller and smaller pieces and carried away bit by bit.

Then, one day, the men packed up their torches and tools and departed.

At sunset, a silent wind blew through this hollow building which once housed man's technology that the Bleachery depended upon for its very existance.

The machinery that was not sold at the Auction and left in the main building was cut up with acetylene torches and sold for junk, together with miles of stainless steel and brass piping and fittings.

With acetylene torches, the junk men cut up the filtering tanks and softening plant and sold for junk.

Norman sold the four tremendous boilers to an out of State Company.

To remove these Boilers, the boiler house had to be demolished, thus destroying that building forever.

The only thing remaining of the Boiler House is the 200 foot Smoke Stack.

Two of the three oil storage tanks were cut up and sold for iron.

Only one tank remains, this was not cut up because, to this day, it contains about 100,000 gallons of oil which has coagulated and turned to a thick tar after 40 years.

Norman Kanor sold the Lake to both New York State and the Village together.

During the 40 years that Kaynor owned this property, the two detatched buildings which were vacant at the time, were destroyed by fire.

These fires were under suspicious origin.

As for the main four story brick building, it was now reduced to an empty shell.

This magnificient Plant was stripped as much as possible for junk money.

Kanor rented bits and parts to mediocre, unstable, fly by night companies.

The only truly stable tennant he had was Lighting and Electronics.

Lighting and Electronics is the second generation of the Fedigan Family.

Before, he, Kanor died, he sold the entire Main Building to John and Robert Fedigan.

With their own money and money borrowed, they began a very costly program of rebuilding, repairing and restoring the Building which had been neglected for the past 40 years.

The Brothers named the complex, MARKET STREET INDUSTRIAL PARK.

John Fedigan kept Lighting and Electronics operating in one section of the Building, and opened another business, an indoor self storage facility on the first floor, which was once the Bleach House.

They had to have contractors pour a solid concrete floor to cover large holes left in the floor when Kanor removed the remaining machinery from the Bleach House.

The Fedigans opened 3 Loading Docks on the second floor which was once the Starch Room and Finishing Room.

Here, they sectioned off individual space to independent enterprises.

The third floor, which was Department 10, sheeting and pillowcases, is rented for bulk storage to several Companies.

The Fedigans have spent an enormous amount of money restoring the building and grounds.

Their plans for future repairs and restoration is endless.

The Fedigan brothers are preserving the past and at the same time, looking to restore the building for the future.

The name has been changed many times since 1830, and probably will be changed many more times in the future.

For us, who lived in that ERA, it will always be known as .....THE BLEACHERY

As for Milliken, in 1978, the name of Deering was finally removed from the Company after carrying it for 110 years.

The Company is known today, as Milliken & Co., with Headquarters at 1045 6th Ave, New York, and the second Headquarters at Milliken Research Center in Spartanburg, South Carolina.

Milliken & Company went on to become the largest privately held Textile Company and one of the largest privately owned Company of any kind in the United States.

Roger Milliken, grandson of company founder, Seth Milliken, has been recognized as a giant of the Textile Industry since he became the Company's president in 1947.

Milliken & Company holds 1,200 patents.

Milliken holds about 30% of the U.S. Stretch Fabric market, 40% of the market for acetate and acetate blends, about 25% of the market for automotive fabrics.

In 1958, Milliken opened a gigantic Textile Research Facility in Spartanburg, South Carolina on 600 acres, the only one of its kind in the world.

Here also is located one of the two Headquarters of the Company together with an information center, plant engineering and design for new constructions.

The Company owns 50 Textile manufacturing Plants, employees 15,000 people with 2 Billion dollars in annual sales.

The success of Milliken & Co. in the future, will depend largely on the Company's ability to continue with its steady technological and organization advancement in the absence of Roger Milliken, who, in this year of 1996, is 79 years old.

Tracing the success of Milliken & Co, one must never forget the role the Dutchess Bleachery played in making Milliken & Co. the Company it is today.

The natural abundance of water from the Falls, and the Power it produced to keep the Dutchess Bleachery going, was the true foundation for this Company.....

RIGHT HERE IN WAPPINGERS FALLS, N.Y.

REFERENCE 10

Wappinger Creek
Market Street
Wappingers Falls, NY 12590

Inquiry Number: 4397871.2s
August 31, 2015

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

FORM-LBC-GON

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

MARKET STREET
WAPPINGERS FALLS, NY 12590

COORDINATES

Latitude (North):	41.5985000 - 41˚ 35' 54.60''
Longitude (West):	73.9241000 - 73˚ 55' 26.76''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	589664.5
UTM Y (Meters):	4605545.5
Elevation:	1 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5939329 WAPPINGERS FALLS, NY
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20110705, 20110717
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
MARKET STREET
WAPPINGERS FALLS, NY 12590

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	THREE STAR ANODIZING	MARKET STREET INDUST	CERCLIS, LIENS 2, RCRA NonGen / NLR, PRP, ICIS,...	Higher	1 ft.
2	NYS DEC	33 MCKINLEY STREET	PA MANIFEST	Higher	395, 0.075, SW
A3	VAN VLACKS CLEANERS	1 FULTON ST	RCRA-SQG, US AIRS, RI MANIFEST, RI MANIFEST	Higher	788, 0.149, SE
A4		1 FULTON ST	EDR US Hist Cleaners	Higher	789, 0.149, ESE
A5	VAN VLACKS CLEANERS	1 FULTON ST NEW ADDR	NY DRYCLEANERS	Higher	789, 0.149, ESE
A6	OWEN MACHINE SHOP	3 FULTON AVE	RCRA NonGen / NLR, FINDS, NY MANIFEST	Higher	799, 0.151, ESE
7		28 FULTON ST	EDR US Hist Cleaners	Higher	1071, 0.203, SSE
8	OAK TREE GARDEN	120 SHANINGVILLE RD	NY LTANKS	Higher	1378, 0.261, NW
9	RESIDENCE	64 WEST MAIN ST	NY LTANKS	Higher	1550, 0.294, NE
10	NYNEX BLDG	10 SOUTH ST	NY LTANKS	Higher	1848, 0.350, ESE
11	DELANEY	32 SOUTH AVENUE	NY LTANKS	Higher	1998, 0.378, SE
12	WAPPINGER FALLS LF	FRANKLINDALE & CLAPP	CERC-NFRAP	Higher	2075, 0.393, South
13	DIAZ	10 PARK AVE	NY LTANKS	Higher	2124, 0.402, East
14	WAPPINGERS FALLS VIL	FRANKLINDALE AVENUE	NY SHWS	Higher	2388, 0.452, South
B15	GULF S/S	127 WEST MAIN STREET	NY LTANKS, NY Spills	Higher	2412, 0.457, NNE
B16	WAPPINGERS TEXACO	127-129 WEST MAIN ST	NY LTANKS	Higher	2412, 0.457, NNE
17	EXXON S/S-MID.VAL.	60 SOUTH AVE	NY LTANKS	Higher	2507, 0.475, SSE
C18	WAPPINGER FALLS GAS	2755 WEST MAIN STREE	NY LTANKS	Higher	2521, 0.477, NNE
C19	DUTCHESS GARAGE: CLO	2755 WEST MAIN STREE	NY LTANKS, NY Spills	Higher	2521, 0.477, NNE
20	WAPPINGERS FALLS (V)	UNKNOWN	NY SWF/LF	Higher	2610, 0.494, South

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ..... Federal Facility Site Information listing

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ..... RCRA - Large Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

Federal ERNS list

ERNS ..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

NY VAPOR REOPENED ..... Vapor Intrusion Legacy Site List

State and tribal leaking storage tank lists

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land
NY HIST LTANKS ..... Listing of Leaking Storage Tanks

State and tribal registered storage tank lists

FEMA UST ..... Underground Storage Tank Listing
NY UST ..... Petroleum Bulk Storage (PBS) Database
NY CBS UST ..... Chemical Bulk Storage Database
NY MOSF UST ..... Major Oil Storage Facilities Database
NY CBS ..... Chemical Bulk Storage Site Listing
NY MOSF ..... Major Oil Storage Facility Site Listing
NY AST ..... Petroleum Bulk Storage
NY CBS AST ..... Chemical Bulk Storage Database
NY MOSF AST ..... Major Oil Storage Facilities Database
INDIAN UST ..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

NY RES DECL ..... Restrictive Declarations Listing
NY ENG CONTROLS ..... Registry of Engineering Controls
NY INST CONTROL ..... Registry of Institutional Controls

State and tribal voluntary cleanup sites

NY VCP ..... Voluntary Cleanup Agreements
INDIAN VCP ..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

NY BROWNFIELDS ..... Brownfields Site List
NY ERP ..... Environmental Restoration Program Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

NY SWRCY ..... Registered Recycling Facility List
NY SWTIRE ..... Registered Waste Tire Storage & Facility List
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ..... National Clandestine Laboratory Register
NY DEL SHWS ..... Delisted Registry Sites
US CDL ..... Clandestine Drug Labs

EXECUTIVE SUMMARY

Local Lists of Registered Storage Tanks

NY HIST UST ..... Historical Petroleum Bulk Storage Database
NY HIST AST ..... Historical Petroleum Bulk Storage Database

Local Land Records

NY LIENS ..... Spill Liens Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
NY Hist Spills ..... SPILLS Database
NY SPILLS 90 ..... SPILLS 90 data from FirstSearch
NY SPILLS 80 ..... SPILLS 80 data from FirstSearch

Other Ascertainable Records

FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PADS ..... PCB Activity Database System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
RADINFO ..... Radiation Information Database
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites
US MINES ..... Mines Master Index File
NY AIRS ..... Air Emissions Data
NY COAL ASH ..... Coal Ash Disposal Site Listing
NY E DESIGNATION ..... E DESIGNATION SITE LISTING
NY Financial Assurance ..... Financial Assurance Information Listing
NY HSWDS ..... Hazardous Substance Waste Disposal Site Inventory
NY SPDES ..... State Pollutant Discharge Elimination System
NY UIC ..... Underground Injection Control Wells

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ..... EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

EDR US Hist Auto Stat..... EDR Exclusive Historic Gas Stations

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

NY RGA HWS..... Recovered Government Archive State Hazardous Waste Facilities List
NY RGA LF..... Recovered Government Archive Solid Waste Facilities List

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

CERCLIS: The Comprehensive Environmental Response, Compensation and Liability Information System contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

A review of the CERCLIS list, as provided by EDR, and dated 10/25/2013 has revealed that there is 1 CERCLIS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THREE STAR ANODIZING	***MARKET STREET INDUST***	***0 - 1/8 (0.000 mi.)***	***1***	***8***

Federal CERCLIS NFRAP site List

CERC-NFRAP: Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/25/2013 has revealed that there is

1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WAPPINGER FALLS LF	FRANKLINDALE & CLAPP	S 1/4 - 1/2 (0.393 mi.)	12	57

Federal RCRA generators list

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/10/2015 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VAN VLACKS CLEANERS	***1 FULTON ST***	***SE 1/8 - 1/4 (0.149 mi.)***	***A3***	***29***

State- and tribal - equivalent CERCLIS

NY SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the NY SHWS list, as provided by EDR, and dated 06/26/2015 has revealed that there is 1 NY SHWS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WAPPINGERS FALLS VIL Site Code: 57829	FRANKLINDALE AVENUE	S 1/4 - 1/2 (0.452 mi.)	14	59

State and tribal landfill and/or solid waste disposal site lists

NY SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the list.

A review of the NY SWF/LF list, as provided by EDR, and dated 06/24/2015 has revealed that there is 1 NY SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
WAPPINGERS FALLS (V)	UNKNOWN	S 1/4 - 1/2 (0.494 mi.)	20	70

State and tribal leaking storage tank lists

NY LTANKS: Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills

A review of the NY LTANKS list, as provided by EDR, and dated 07/21/2015 has revealed that there are 10 NY LTANKS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
OAK TREE GARDEN Spill Number/Closed Date: 9516759 / 5/29/1997 Site ID: 220992 Program Number: 9516759	120 SHANINGVILLE RD	NW 1/4 - 1/2 (0.261 mi.)	8	52
RESIDENCE Spill Number/Closed Date: 9511068 / 12/19/1995 Site ID: 202300 Program Number: 9511068	64 WEST MAIN ST	NE 1/4 - 1/2 (0.294 mi.)	9	53
NYNEX BLDG Spill Number/Closed Date: 9508854 / 3/13/1998 Site ID: 189069 Program Number: 9508854	10 SOUTH ST	ESE 1/4 - 1/2 (0.350 mi.)	10	54
DELANEY Spill Number/Closed Date: 9913107 / 2/18/2000 Site ID: 174865 Program Number: 9913107	32 SOUTH AVENUE	SE 1/4 - 1/2 (0.378 mi.)	11	55
DIAZ Spill Number/Closed Date: 0106094 / 9/14/2001 Site ID: 296713 Program Number: 0106094	10 PARK AVE	E 1/4 - 1/2 (0.402 mi.)	13	57
GULF S/S Spill Number/Closed Date: 9105770 / 1/16/1992 Site ID: 225662 Program Number: 9105770	***127 WEST MAIN STREET***	***NNE 1/4 - 1/2 (0.457 mi.)***	***B15***	***60***
WAPPINGERS TEXACO Spill Number/Closed Date: 8707094 / 9/7/1988 Site ID: 154826 Program Number: 8707094	127-129 WEST MAIN ST	NNE 1/4 - 1/2 (0.457 mi.)	B16	62
EXXON S/S-MID.VAL. Spill Number/Closed Date: 8710041 / 10/19/2004 Site ID: 75191 Program Number: 8710041	60 SOUTH AVE	SSE 1/4 - 1/2 (0.475 mi.)	17	63
WAPPINGER FALLS GAS Spill Number/Closed Date: 0211965 / 3/20/2003 Site ID: 89573 Program Number: 0211965	2755 WEST MAIN STREE	NNE 1/4 - 1/2 (0.477 mi.)	C18	65
DUTCHESS GARAGE: CLO Spill Number/Closed Date: 0504414 / Not Reported Site ID: 349221 Program Number: 0504414	***2755 WEST MAIN STREE***	***NNE 1/4 - 1/2 (0.477 mi.)***	***C19***	***66***

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/10/2015 has revealed that there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THREE STAR ANODIZING	***MARKET STREET INDUST***	***0 - 1/8 (0.000 mi.)***	***1***	***8***
OWEN MACHINE SHOP	***3 FULTON AVE***	***ESE 1/8 - 1/4 (0.151 mi.)***	***A6***	***49***

NY DRYCLEANERS: A listing of all registered drycleaning facilities.

A review of the NY DRYCLEANERS list, as provided by EDR, and dated 07/02/2015 has revealed that there is 1 NY DRYCLEANERS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VAN VLACKS CLEANERS Facility Id: 3-1356-00242	1 FULTON ST NEW ADDR	ESE 1/8 - 1/4 (0.149 mi.)	A5	49

NY MANIFEST: Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

A review of the NY MANIFEST list, as provided by EDR, and dated 08/01/2015 has revealed that there are 3 NY MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THREE STAR ANODIZING EPA ID: NYD002009231	***MARKET STREET INDUST***	***0 - 1/8 (0.000 mi.)***	***1***	***8***
VAN VLACKS CLEANERS EPA Id: NYD987037793 Manifest Document Number: 004337190FLE	***1 FULTON ST***	***SE 1/8 - 1/4 (0.149 mi.)***	***A3***	***29***
OWEN MACHINE SHOP EPA ID: NYD987040177	***3 FULTON AVE***	***ESE 1/8 - 1/4 (0.151 mi.)***	***A6***	***49***

RI MANIFEST: Hazardous waste manifest information

A review of the RI MANIFEST list, as provided by EDR, and dated 08/01/2015 has revealed that there is 1 RI MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VAN VLACKS CLEANERS	***1 FULTON ST***	***SE 1/8 - 1/4 (0.149 mi.)***	***A3***	***29***

EPA Id: NYD987037793
Manifest Document Number: 004337190FLE

PA MANIFEST: Hazardous waste manifest information.

A review of the PA MANIFEST list, as provided by EDR, and dated 08/01/2015 has revealed that there is 1 PA MANIFEST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
NYS DEC Generator EPA Id: NYD002009231	33 MCKINLEY STREET	SW 0 - 1/8 (0.075 mi.)	2	29

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR US Hist Cleaners: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR US Hist Cleaners list, as provided by EDR, has revealed that there are 2 EDR US Hist Cleaners sites within approximately 0.25 miles of the target property.

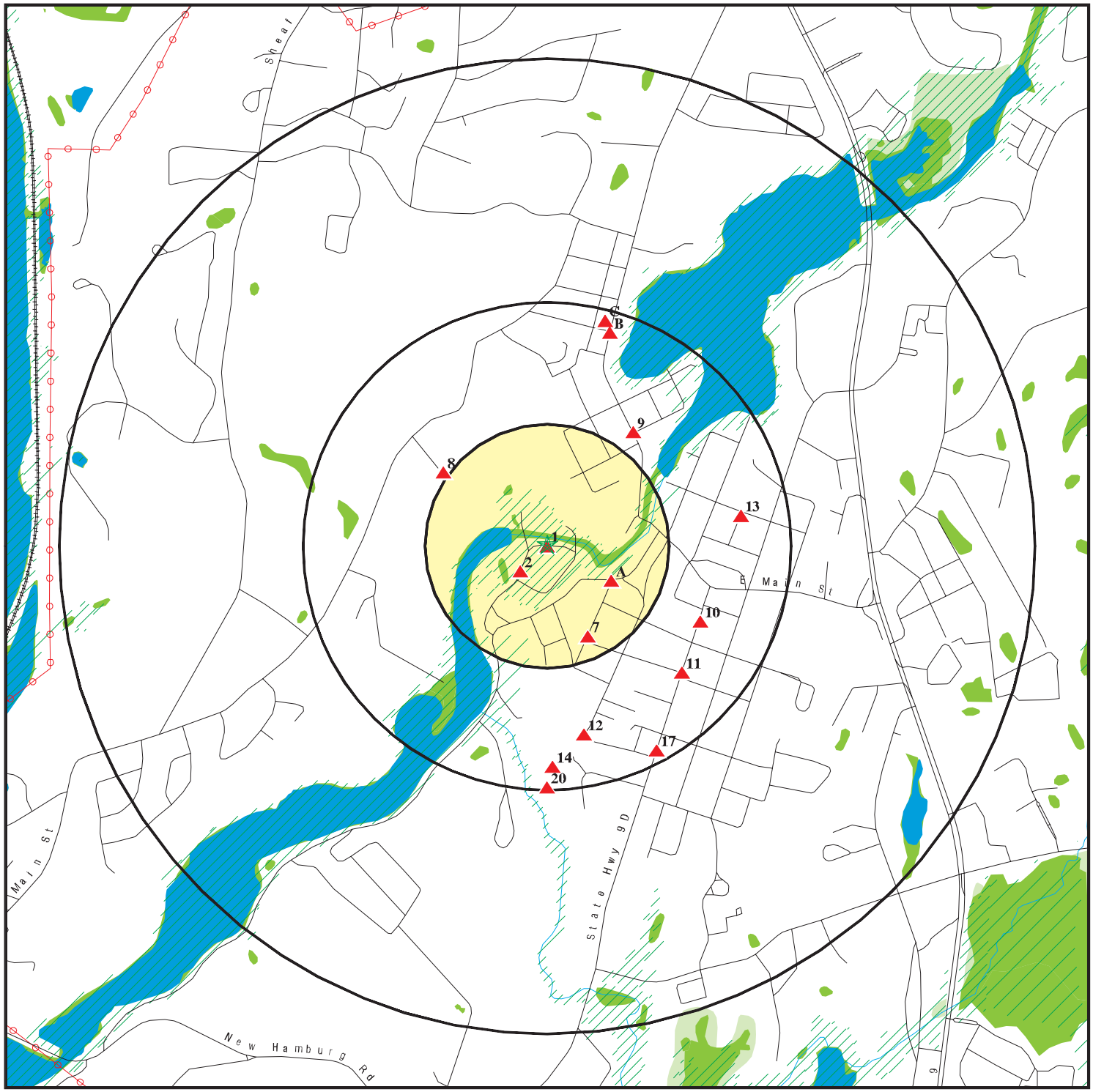
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	1 FULTON ST	ESE 1/8 - 1/4 (0.149 mi.)	A4	49
Not reported	28 FULTON ST	SSE 1/8 - 1/4 (0.203 mi.)	7	52

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

Site Name	Database(s)
THREE STAR ANODIZING	NY SHWS
DUTCHESS AIRPORT LF	CERC-NFRAP
EVENAL CLEANERS	NY DRYCLEANERS

OVERVIEW MAP - 4397871.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites

0 1/4 1/2 1 Miles

- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Wappinger Creek ADDRESS: Market Street Wappingers Falls NY 12590 LAT/LONG: 41.5985 / 73.9241	CLIENT: Weston Solutions, Inc. CONTACT: Scott Snyder INQUIRY #: 4397871.2s DATE: August 31, 2015 3:24 pm

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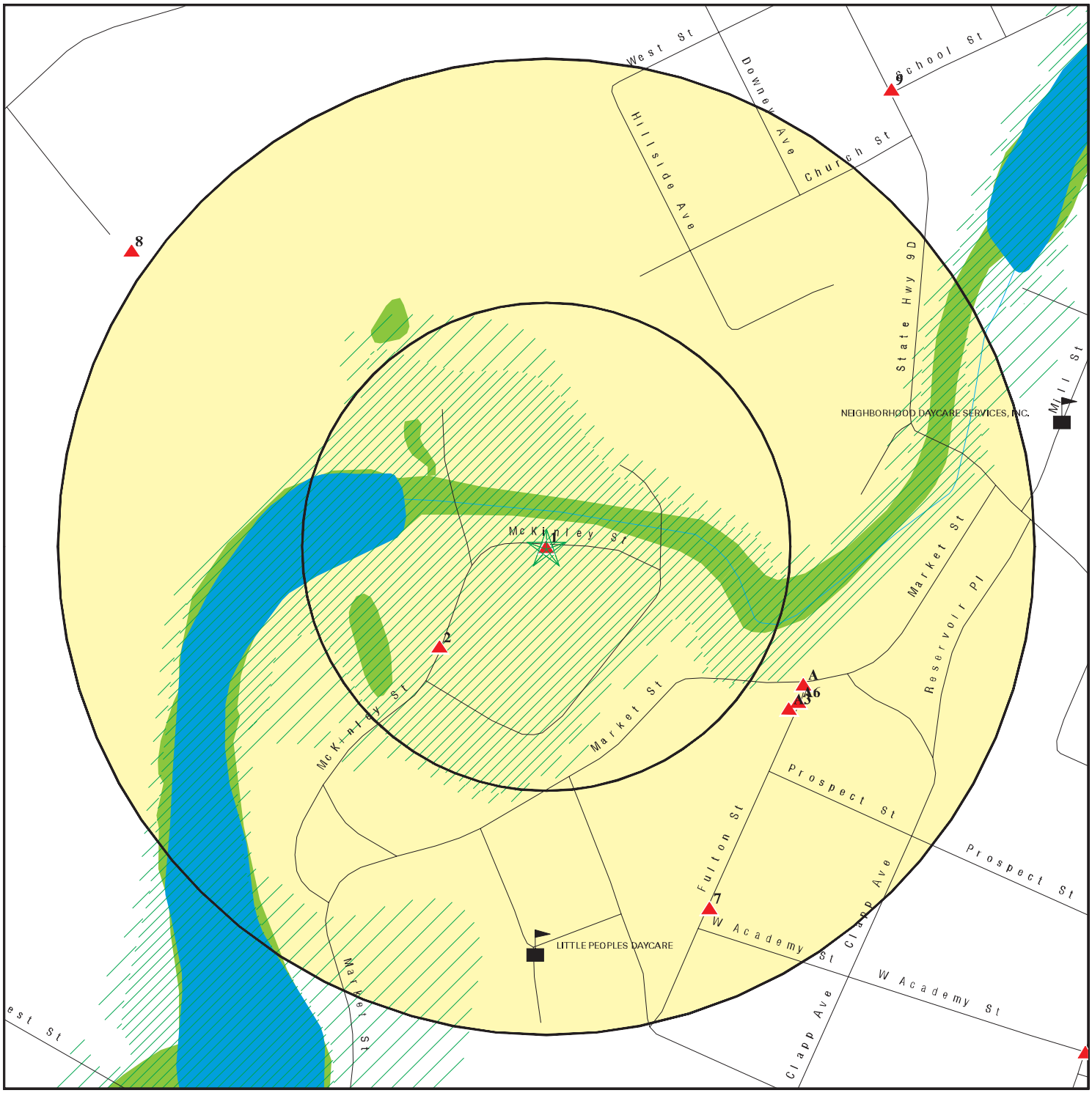
DETAIL MAP - 4397871.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Wappinger Creek ADDRESS: Market Street Wappingers Falls NY 12590 LAT/LONG: 41.5985 / 73.9241	CLIENT: Weston Solutions, Inc. CONTACT: Scott Snyder INQUIRY #: 4397871.2s DATE: August 31, 2015 3:26 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
CERCLIS	0.500		1	0	0	NR	NR	1
Federal CERCLIS NFRAP site List								
CERC-NFRAP	0.500		0	0	1	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	1	NR	NR	NR	1
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
NY SHWS	1.000		0	0	1	0	NR	1
NY VAPOR REOPENED	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
NY SWF/LF	0.500		0	0	1	NR	NR	1
State and tribal leaking storage tank lists								
INDIAN LUST	0.500		0	0	0	NR	NR	0
NY LTANKS	0.500		0	0	10	NR	NR	10
NY HIST LTANKS	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
NY UST	0.250		0	0	NR	NR	NR	0
NY CBS UST	0.250		0	0	NR	NR	NR	0
NY MOSF UST	0.500		0	0	0	NR	NR	0
NY CBS	0.250		0	0	NR	NR	NR	0
NY MOSF	0.500		0	0	0	NR	NR	0
NY AST	0.250		0	0	NR	NR	NR	0
NY CBS AST	0.250		0	0	NR	NR	NR	0
NY MOSF AST	0.500		0	0	0	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
NY RES DECL	0.125		0	NR	NR	NR	NR	0
NY ENG CONTROLS	0.500		0	0	0	NR	NR	0
NY INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
NY VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
NY BROWNFIELDS	0.500		0	0	0	NR	NR	0
NY ERP	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
NY SWRCY	0.500		0	0	0	NR	NR	0
NY SWTIRE	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
NY DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
NY HIST UST	0.250		0	0	NR	NR	NR	0
NY HIST AST	TP		NR	NR	NR	NR	NR	0
Local Land Records								
NY LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
NY Spills	0.125		0	NR	NR	NR	NR	0
NY Hist Spills	0.125		0	NR	NR	NR	NR	0
NY SPILLS 90	0.125		0	NR	NR	NR	NR	0
NY SPILLS 80	0.125		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		1	1	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
NY AIRS	TP		NR	NR	NR	NR	NR	0
NY COAL ASH	0.500		0	0	0	NR	NR	0
NY DRYCLEANERS	0.250		0	1	NR	NR	NR	1
NY E DESIGNATION	0.125		0	NR	NR	NR	NR	0
NY Financial Assurance	TP		NR	NR	NR	NR	NR	0
NY HSWDS	0.500		0	0	0	NR	NR	0
NY MANIFEST	0.250		1	2	NR	NR	NR	3
RI MANIFEST	0.250		0	1	NR	NR	NR	1
PA MANIFEST	0.250		1	0	NR	NR	NR	1
NY SPDES	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NY UIC	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR US Hist Auto Stat	0.250		0	0	NR	NR	NR	0
EDR US Hist Cleaners	0.250		0	2	NR	NR	NR	2
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
NY RGA HWS	TP		NR	NR	NR	NR	NR	0
NY RGA LF	TP		NR	NR	NR	NR	NR	0
- Totals --		0	4	8	13	0	0	25

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1 **THREE STAR ANODIZING** **CERCLIS** **1000202020**
MARKET STREET INDUSTRIAL PARK **LIENS 2** **NYD002009231**
< 1/8 **WAPPINGERS FALLS, NY 12590** **RCRA NonGen / NLR**
1 ft. **PRP**
ICIS
FINDS
Relative: **NY MANIFEST**
Higher

Actual:
1 ft.

CERCLIS:

Site ID:	0202340
EPA ID:	NYD981560519
Facility County:	DUTCHESS
Short Name:	THREE STAR ANODIZING
Congressional District:	21
IFMS ID:	02RT
SMSA Number:	6460
USGC Hydro Unit:	02020008
Federal Facility:	Not a Federal Facility
DMNSN Number:	0.00000
Site Orphan Flag:	N
RCRA ID:	Not reported
USGS Quadrangle:	Not reported
Site Init By Prog:	Not reported
NFRAP Flag:	Not reported
Parent ID:	Not reported
RST Code:	Not reported
EPA Region:	02
Classification:	Not reported
Site Settings Code:	Not reported
NPL Status:	Not on the NPL
DMNSN Unit Code:	Not reported
RBRAC Code:	Not reported
RResp Fed Agency Code:	Not reported
Non NPL Status:	Site Reassessment Start Needed
Non NPL Status Date:	03/16/11
Site Fips Code:	36027
CC Concurrence Date:	/ /
CC Concurrence FY:	Not reported
Alias EPA ID:	Not reported
Site FUDS Flag:	Not reported
Alias Comments:	Not reported
Site Description:	12/04/2006 - Remedial Investigation started in 2001. 3/2011: OCA Reassessments

CERCLIS Assessment History:

Action Code:	001
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	03/13/86
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

THREE STAR ANODIZING (Continued) **1000202020**

Action Code:	001
Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	09/24/86
Priority Level:	Low priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	SITE INSPECTION
Date Started:	01/08/87
Date Completed:	01/15/87
Priority Level:	Higher priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	06/08/87
Priority Level:	Low priority for further assessment
Operable Unit:	SITEWIDE
Primary Responsibility:	State, Fund Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	SECTION 104(E) REF LITIGATION
Date Started:	03/13/02
Date Completed:	07/11/02
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	002
Action:	SECTION 104(E) REF LITIGATION
Date Started:	10/02/03

THREE STAR ANODIZING (Continued) **1000202020**

Date Completed:	05/28/04
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	JUDICIAL/CIVIL JUDGMENT
Date Started:	/ /
Date Completed:	05/28/04
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	Public Notice Published
Date Started:	/ /
Date Completed:	08/19/04
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	REMOVAL
Date Started:	06/03/04
Date Completed:	11/10/04
Priority Level:	Cleaned up
Operable Unit:	SITEWIDE
Primary Responsibility:	EPA Fund-Financed
Planning Status:	Primary
Urgency Indicator:	Time Critical
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	LIEN ON POTENTIALLY RESPONSIBLE PARTY PROPERTY
Date Started:	/ /
Date Completed:	02/03/06
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement

THREE STAR ANODIZING (Continued) **1000202020**

Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	ISSUE REQUEST LETTERS (104E)
Date Started:	/ /
Date Completed:	10/16/07
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	Notice Letters Issued
Date Started:	/ /
Date Completed:	10/16/07
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started:	08/14/01
Date Completed:	04/29/08
Priority Level:	Search Complete, No Viable PRPs
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

For detailed financial records, contact EDR for a Site Report.:

Action Code:	001
Action:	COST RECOVERY NEGOTIATIONS
Date Started:	10/16/07
Date Completed:	04/29/08
Priority Level:	Not reported
Operable Unit:	SITEWIDE
Primary Responsibility:	Federal Enforcement
Planning Status:	Not reported
Urgency Indicator:	Not reported
Action Anomaly:	Not reported

THREE STAR ANODIZING (Continued) **1000202020**

For detailed financial records, contact EDR for a Site Report.:

Click this hyperlink while viewing on your computer to access
25 additional US CERCLIS Financial: record(s) in the EDR Site Report.

LIENS 2:

Facility name:	THREE STAR ANODIZING
Facility address:	MARKET STREET INDUSTRIAL PARK WAPPINGERS FALLS, NY 12590
EPA ID:	NYD981560519
Effective date:	Not reported
Lien:	LP001
Party name:	Not reported
Reg:	02
Release date:	Not reported
Start date:	Not reported
Complete date:	02/03/2006

RCRA NonGen / NLR:

Date form received by agency:	01/01/2007
Facility name:	THREE STAR ANODIZING OF WAPPINGERS INC
Facility address:	MARKET ST INDUSTRIAL PARK WAPPINGERS FALLS, NY 12590
EPA ID:	NYD002009231
Contact:	Not reported
Contact address:	MARKET ST INDUSTRIAL PARK WAPPINGERS FALLS, NY 12590
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	02
Land type:	Facility is not located on Indian land. Additional information is not known.
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	Not reported
Owner/operator address:	NOT REQUIRED NOT REQUIRED, WY 99999
Owner/operator country:	US
Owner/operator telephone:	(212) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported

THREE STAR ANODIZING (Continued) **1000202020**

Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: THREE STAR ANODIZING OF WAPPINGERS INC
Classification: Not a generator, verified

Date form received by agency: 07/08/1999
Site name: THREE STAR ANODIZING OF WAPPINGERS INC
Classification: Not a generator, verified

Date form received by agency: 12/04/1984
Site name: THREE STAR ANODIZING OF WAPPINGERS INC
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D006
. Waste name: CADMIUM

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/27/1987
Date achieved compliance: 07/30/1987
Violation lead agency: State
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 07/30/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 01/27/1987

THREE STAR ANODIZING (Continued) **1000202020**

Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: Generators - General
Date achieved compliance: 07/30/1987
Evaluation lead agency: State

PRP:
PRP name: IANNONE, SAMUEL
THREE STAR ANODIZING COMPANY

ICIS:
Enforcement Action ID: 02-2004-0018
FRS ID: 110009303510
Program ID: CERCLIS NYD981560519
Action Name: THREE STAR ANODIZING CORP
Full Address: MARKET STREET INDUSTRIAL PARK MCKINLEY AVENUE WAPPINGERS FALLS NY 12590
State: New York
Facility Name: THREE STAR ANODIZING
Facility Address: MARKET STREET INDUSTRIAL PARK
WAPPINGERS FALLS, NY 12590
Enforcement Action Type: Access Order
Facility County: DUTCHESS
EPA Region #: 2

Enforcement Action ID: 02-2004-0018
FRS ID: 110009303510
Program ID: FRS 110009303510
Action Name: THREE STAR ANODIZING CORP
Full Address: MARKET STREET INDUSTRIAL PARK MCKINLEY AVENUE WAPPINGERS FALLS NY 12590
State: New York
Facility Name: THREE STAR ANODIZING
Facility Address: MARKET STREET INDUSTRIAL PARK
WAPPINGERS FALLS, NY 12590
Enforcement Action Type: Access Order
Facility County: DUTCHESS
EPA Region #: 2

Enforcement Action ID: 02-2002-0009
FRS ID: 110009303510
Program ID: CERCLIS NYD981560519
Action Name: THREE STAR ANODIZING
Full Address: MARKET STREET INDUSTRIAL PARK MCKINLEY AVENUE WAPPINGERS FALLS NY 12590
State: New York
Facility Name: THREE STAR ANODIZING
Facility Address: MARKET STREET INDUSTRIAL PARK
WAPPINGERS FALLS, NY 12590
Enforcement Action Type: Access Order
Facility County: DUTCHESS
EPA Region #: 2

Enforcement Action ID: 02-2002-0009
FRS ID: 110009303510
Program ID: FRS 110009303510
Action Name: THREE STAR ANODIZING
Full Address: MARKET STREET INDUSTRIAL PARK MCKINLEY AVENUE WAPPINGERS FALLS NY

THREE STAR ANODIZING (Continued) **1000202020**

	12590
State:	New York
Facility Name:	THREE STAR ANODIZING
Facility Address:	MARKET STREET INDUSTRIAL PARK
	WAPPINGERS FALLS, NY 12590
Enforcement Action Type:	Access Order
Facility County:	DUTCHESS
EPA Region #:	2

Program ID:	CERCLIS NYD981560519
Facility Name:	THREE STAR ANODIZING
Address:	MARKET STREET INDUSTRIAL PARK
Tribal Indicator:	N
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported

Program ID:	FRS 110009303510
Facility Name:	THREE STAR ANODIZING
Address:	MARKET STREET INDUSTRIAL PARK
Tribal Indicator:	N
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported

Program ID:	CERCLIS NYD981560519
Facility Name:	THREE STAR ANODIZING
Address:	MARKET STREET INDUSTRIAL PARK
Tribal Indicator:	N
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported

Program ID:	FRS 110009303510
Facility Name:	THREE STAR ANODIZING
Address:	MARKET STREET INDUSTRIAL PARK
Tribal Indicator:	N
Fed Facility:	Not reported
NAIC Code:	Not reported
SIC Code:	Not reported

FINDS:

Registry ID: 110009303510

Environmental Interest/Information System

CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System) is the Superfund database that is used to support management in all phases of the Superfund program. The system contains information on all aspects of hazardous waste sites, including an inventory of sites, planned and actual site activities, and financial information.

NY MANIFEST:

THREE STAR ANODIZING (Continued) **1000202020**

EPA ID:	NYD002009231
Country:	USA
Location Address 1:	MARKET STREET INDUSTRIAL PARK
Location Address 2:	Not reported
Location City:	WAPPINGERS FALLS
Location State:	NY
Location Zip Code:	12590
Location Zip Code 4:	Not reported

Mailing Info:

Name:	THREE STAR ANODIZING OF WAPPINGERS INC
Contact:	MICHAEL MASON
Address:	625 BROADWAY
City/State/Zip:	ALBANY, NY 12233
Country:	USA
Phone:	518-402-9813

Manifest:

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	07/31/2014
Trans1 Recv Date:	07/31/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/01/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	25350
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014162JJK
Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported

THREE STAR ANODIZING (Continued) **1000202020**

Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	08/06/2014
Trans1 Recv Date:	08/06/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/07/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	23130
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014163JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	07/31/2014
Trans1 Recv Date:	07/31/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/01/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	25680
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014164JJK

THREE STAR ANODIZING (Continued) **1000202020**

Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	08/08/2014
Trans1 Recv Date:	08/08/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/11/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	23970
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014165JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	08/08/2014
Trans1 Recv Date:	08/08/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/11/2014

THREE STAR ANODIZING (Continued) **1000202020**

Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	25640
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014166JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	08/07/2014
Trans1 Recv Date:	08/07/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/08/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	27290
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014167JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N

THREE STAR ANODIZING (Continued) **1000202020**

Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	07/30/2014
Trans1 Recv Date:	07/30/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	07/31/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	26540
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014168JJK
Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	06/18/2014
Trans1 Recv Date:	06/18/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/19/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000

THREE STAR ANODIZING (Continued) **1000202020**

Waste Code:	Not reported
Quantity:	27860
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014169JJK
Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	06/18/2014
Trans1 Recv Date:	06/18/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/19/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	25360
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014170JJK
Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

THREE STAR ANODIZING (Continued) **1000202020**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	06/17/2014
Trans1 Recv Date:	06/17/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/19/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	32460
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014171JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	06/18/2014
Trans1 Recv Date:	06/18/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/19/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	25960
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1

THREE STAR ANODIZING (Continued) **1000202020**

Year:	2014
Manifest Tracking Num:	005014172JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	06/18/2014
Trans1 Recv Date:	06/18/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/19/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	23570
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014173JJK
Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	06/17/2014
Trans1 Recv Date:	06/17/2014

THREE STAR ANODIZING (Continued) **1000202020**

Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/18/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	25170
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014175JJK
Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	06/18/2014
Trans1 Recv Date:	06/18/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/19/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	24840
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014176JJK
Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	Y
Discr Type Ind:	N

THREE STAR ANODIZING (Continued) **1000202020**

Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	06/17/2014
Trans1 Recv Date:	06/17/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	06/18/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	23490
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014177JJK
Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	08/05/2014
Trans1 Recv Date:	08/05/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/06/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported

THREE STAR ANODIZING (Continued) **1000202020**

Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	24840
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014182JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	08/04/2014
Trans1 Recv Date:	08/04/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/05/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	25400
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014183JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

THREE STAR ANODIZING (Continued) **1000202020**

Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD986969947
Trans2 State ID: Not reported
Generator Ship Date: 08/04/2014
Trans1 Recv Date: 08/04/2014
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/05/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD002009231
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: CDX850000000
Waste Code: Not reported
Quantity: 24980
Units: K - Kilograms (2.2 pounds)
Number of Containers: 1
Container Type: DT - Dump trucks
Handling Method: L Landfill.
Specific Gravity: 1
Year: 2014
Manifest Tracking Num: 005014184JJK
Import Ind: N
Export Ind: N
Discr Quantity Ind: Y
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H141

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NYD986969947
Trans2 State ID: Not reported
Generator Ship Date: 08/04/2014
Trans1 Recv Date: 08/04/2014
Trans2 Recv Date: Not reported
TSD Site Recv Date: 08/05/2014
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD002009231
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: CDX850000000
Waste Code: Not reported
Quantity: 25370
Units: K - Kilograms (2.2 pounds)
Number of Containers: 1

THREE STAR ANODIZING (Continued) **1000202020**

Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014185JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NYD986969947
Trans2 State ID:	Not reported
Generator Ship Date:	08/04/2014
Trans1 Recv Date:	08/04/2014
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	08/05/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD002009231
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX850000000
Waste Code:	Not reported
Quantity:	31270
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	1
Container Type:	DT - Dump trucks
Handling Method:	L Landfill.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	005014186JJK
Import Ind:	N
Export Ind:	Y
Discr Quantity Ind:	Y
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

2
SW
< 1/8
0.075 mi.
395 ft.

NYS DEC
33 MCKINLEY STREET
WAPPINGERS FALL, NY 12590

PA MANIFEST

S116738409
N/A

Relative:
Higher

Actual:
4 ft.

Manifest Details:

Year:	2013
Manifest Number:	000633928JJK
Manifest Type:	TSD Copy
Generator EPA Id:	NYD002009231
Generator Date:	11/19/2013
Mailing Address:	Not reported
Mailing City,St,Zip:	Not reported
Contact Name:	Not reported
Contact Phone:	Not reported
TSD EPA Id:	Not reported
TSD Date:	Not reported
TSD Facility Name:	Cycle Chem Inc
TSD Facility Address:	550 Industrial Rd
TSD Facility City:	Lewisberry
TSD Facility State:	PA
Facility Telephone:	Not reported
Page Number:	1
Line Number:	1
Waste Number:	D008
Container Number:	4
Container Type:	Metal drums, barrels, kegs
Waste Quantity:	1275
Unit:	Pounds
Handling Code:	Not reported
TSP EPA Id:	PAD067098822
Date TSP Sig:	Not reported

A3
SE
1/8-1/4
0.149 mi.
788 ft.

VAN VLACKS CLEANERS
1 FULTON ST
WAPPINGERS FALLS, NY 12590

Site 1 of 4 in cluster A

RCRA-SQG
US AIRS
NY MANIFEST
RI MANIFEST

1000872565
NYD987037793

Relative:
Higher

Actual:
81 ft.

RCRA-SQG:

Date form received by agency:	01/01/2007
Facility name:	VAN VLACKS CLEANERS
Facility address:	1 FULTON ST WAPPINGERS FALLS, NY 12590
EPA ID:	NYD987037793
Mailing address:	FULTON ST WAPPINGERS FALLS, NY 12590
Contact:	RAYMOND VAN VLACKS
Contact address:	FULTON ST WAPPINGERS FALLS, NY 12590
Contact country:	US
Contact telephone:	(845) 297-6224
Contact email:	Not reported
EPA Region:	02
Land type:	Private
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous

VAN VLACKS CLEANERS (Continued) **1000872565**

waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	VINCENT GIAIMO
Owner/operator address:	PO BOX 618 AMAWALK, NY 10501
Owner/operator country:	US
Owner/operator telephone:	(914) 769-1443
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	VAN VLACKS CLEANERS
Owner/operator address:	FULTON ST WAPPINGERS FALLS, NY 12590
Owner/operator country:	US
Owner/operator telephone:	(845) 297-6224
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	08/12/2004
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No
Used oil transporter:	No

Historical Generators:

Date form received by agency:	01/01/2006
Site name:	VAN VLACKS CLEANERS
Classification:	Small Quantity Generator

Date form received by agency:	01/05/2005
Site name:	VAN VLACKS CLEANERS
Classification:	Small Quantity Generator

. Waste code:	D007
. Waste name:	CHROMIUM

. Waste code:	D039
. Waste name:	TETRACHLOROETHYLENE

VAN VLACKS CLEANERS (Continued) **1000872565**

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 07/08/1999
Site name: GIAIMO VINCENT PROPERTY OF
Classification: Not a generator, verified

Date form received by agency: 07/21/1993
Site name: GIAIMO VINCENT PROPERTY OF
Classification: Large Quantity Generator

. Waste code: D000
. Waste name: Not Defined

. Waste code: D008
. Waste name: LEAD

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 11/06/2008
Date achieved compliance: 01/13/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/12/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Preparedness and Prevention
Date violation determined: 11/06/2008
Date achieved compliance: 01/13/2009
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/12/2008
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

VAN VLACKS CLEANERS (Continued) **1000872565**

Regulation violated:	Not reported
Area of violation:	State Statute or Regulation
Date violation determined:	11/06/2008
Date achieved compliance:	01/13/2009
Violation lead agency:	State
Enforcement action:	WRITTEN INFORMAL
Enforcement action date:	11/12/2008
Enf. disposition status:	Not reported
Enf. disp. status date:	Not reported
Enforcement lead agency:	State
Proposed penalty amount:	Not reported
Final penalty amount:	Not reported
Paid penalty amount:	Not reported

Evaluation Action Summary:

Evaluation date:	11/06/2008
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	State Statute or Regulation
Date achieved compliance:	01/13/2009
Evaluation lead agency:	State

Evaluation date:	11/06/2008
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	TSD IS-Preparedness and Prevention
Date achieved compliance:	01/13/2009
Evaluation lead agency:	State

Evaluation date:	11/06/2008
Evaluation:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation:	Generators - Pre-transport
Date achieved compliance:	01/13/2009
Evaluation lead agency:	State

AIRS (AFS):

Airs Minor Details:

EPA plant ID:	110021036644
Plant name:	VAN VLACKS CLEANERS
Plant address:	1 FULTON ST WAPPINGERS FALLS, NY 125902608
County:	DUTCHESS
Region code:	02
Dunn & Bradst #:	Not reported
Air quality cntrl region:	161
Sic code:	7216
Sic code desc:	DRYCLEANING PLANTS, EXCEPT RUG
North Am. industrial classf:	812320
NAIC code description:	Drycleaning and Laundry Services (except Coin-Operated)
Default compliance status:	IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Default classification:	POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Govt facility:	ALL OTHER FACILITIES NOT OWNED OR OPERATED BY A FEDERAL, STATE, OR LOCAL GOVERNMENT
Current HPV:	Not reported

Compliance and Enforcement Major Issues:

VAN VLACKS CLEANERS (Continued) **1000872565**

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Air program: Not reported
National action type: Not reported
Date achieved: Not reported
Penalty amount: Not reported

Historical Compliance Minor Sources:

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1403
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1402
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1401
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1304
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1303
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1302
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1301
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS

VAN VLACKS CLEANERS (Continued) **1000872565**

Hist compliance date: 1201
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: MACT (SECTION 63 NESHAPS)

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1403
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1402
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1401
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1304
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1303
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1302
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1301
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1204
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1203
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1202
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1201
Air prog code hist file: SIP SOURCE

State compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Hist compliance date: 1104
Air prog code hist file: SIP SOURCE

Compliance & Violation Data by Minor Sources:
Air program code: MACT (SECTION 63 NESHAPS)

VAN VLACKS CLEANERS (Continued) **1000872565**

Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: SIP SOURCE
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: ATTAINMENT AREA FOR GIVEN POLLUTANT
Repeat violator date: Not reported
Turnover compliance: Not reported

Air program code: MACT (SECTION 63 NESHAPS)
Plant air program pollutant: Not reported
Default pollutant classification: POTENTIAL UNCONTROLLED EMISSIONS < 100 TONS/YEAR
Def. poll. compliance status: IN COMPLIANCE WITH PROCEDURAL REQUIREMENTS
Def. attainment/non attnmnt: UNCLASSIFIED
Repeat violator date: Not reported
Turnover compliance: Not reported

NY MANIFEST:
EPA ID: NYD987037793
Country: USA
Location Address 1: 1 FULTON STREET
Location Address 2: Not reported
Location City: WAPPINGERS FALLS
Location State: NY
Location Zip Code: 12590
Location Zip Code 4: Not reported

Mailing Info:
Name: VAN VLACKS CLEANERS
Contact: RAY VAN VLACK
Address: 1 FULTON STREET
City/State/Zip: WAPPINGERS FALLS, NY 12590
Country: USA
Phone: 845-297-6224

Manifest:

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: NJD000564906
Trans2 State ID: CDX107000000
Generator Ship Date: 05/04/2015
Trans1 Recv Date: 05/04/2015

VAN VLACKS CLEANERS (Continued) **1000872565**

Trans2 Recv Date:	05/08/2015
TSD Site Recv Date:	05/08/2015
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX107000000
Waste Code:	Not reported
Quantity:	390
Units:	P - Pounds
Number of Containers:	3
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2015
Manifest Tracking Num:	013919173JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	NJD000564906
Trans2 State ID:	MIK814262374
Generator Ship Date:	10/28/2014
Trans1 Recv Date:	10/28/2014
Trans2 Recv Date:	11/04/2014
TSD Site Recv Date:	11/04/2014
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	CDX107000000
Waste Code:	Not reported
Quantity:	260
Units:	P - Pounds
Number of Containers:	2
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1
Year:	2014
Manifest Tracking Num:	012907728JJK
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N

VAN VLACKS CLEANERS (Continued) **1000872565**

Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	OKD981588791
Generator Ship Date:	03/24/2009
Trans1 Recv Date:	03/24/2009
Trans2 Recv Date:	04/02/2009
TSD Site Recv Date:	04/03/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	240.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	001657198SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	OHR000110858
Generator Ship Date:	06/04/2009
Trans1 Recv Date:	06/04/2009
Trans2 Recv Date:	06/10/2009
TSD Site Recv Date:	06/11/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported

VAN VLACKS CLEANERS (Continued) **1000872565**

Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	300.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	001918690SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	OHR000110858
Generator Ship Date:	07/24/2009
Trans1 Recv Date:	07/24/2009
Trans2 Recv Date:	08/05/2009
TSD Site Recv Date:	08/10/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	150.0
Units:	P - Pounds
Number of Containers:	1.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	001882991SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported

VAN VLACKS CLEANERS (Continued) **1000872565**

Mgmt Method Type Code: H020

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: TXR000050930
Trans2 State ID: OHR000110858
Generator Ship Date: 06/04/2009
Trans1 Recv Date: 06/04/2009
Trans2 Recv Date: 06/10/2009
TSD Site Recv Date: 06/11/2009
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD987037793
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: OHD980587364
Waste Code: Not reported
Quantity: 180.0
Units: P - Pounds
Number of Containers: 3.0
Container Type: DF - Fiberboard or plastic drums (glass)
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 1.0
Year: 2009
Manifest Tracking Num: 001918690SKS
Import Ind: N
Export Ind: N
Discr Quantity Ind: N
Discr Type Ind: N
Discr Residue Ind: N
Discr Partial Reject Ind: N
Discr Full Reject Ind: N
Manifest Ref Num: Not reported
Alt Fac RCRA Id: Not reported
Alt Fac Sign Date: Not reported
Mgmt Method Type Code: H020

Document ID: Not reported
Manifest Status: Not reported
Trans1 State ID: TXR000050930
Trans2 State ID: NJD071629976
Generator Ship Date: 10/13/2009
Trans1 Recv Date: 10/13/2009
Trans2 Recv Date: 10/19/2009
TSD Site Recv Date: 10/23/2009
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: NYD987037793
Trans1 EPA ID: Not reported
Trans2 EPA ID: Not reported
TSDF ID: OHD980587364
Waste Code: Not reported
Quantity: 600.0
Units: P - Pounds
Number of Containers: 4.0

VAN VLACKS CLEANERS (Continued) **1000872565**

Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002049520SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	OKD981588791
Generator Ship Date:	03/24/2009
Trans1 Recv Date:	03/24/2009
Trans2 Recv Date:	04/02/2009
TSD Site Recv Date:	04/03/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	300.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	001657198SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930

VAN VLACKS CLEANERS (Continued) **1000872565**

Trans2 State ID:	NJD071629976
Generator Ship Date:	10/13/2009
Trans1 Recv Date:	10/13/2009
Trans2 Recv Date:	10/19/2009
TSD Site Recv Date:	10/23/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	120.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	002049520SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	OHR000110858
Generator Ship Date:	07/24/2009
Trans1 Recv Date:	07/24/2009
Trans2 Recv Date:	08/05/2009
TSD Site Recv Date:	08/10/2009
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	120.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2009
Manifest Tracking Num:	001882991SKS
Import Ind:	N

VAN VLACKS CLEANERS (Continued) **1000872565**

Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	02/14/2011
Trans1 Recv Date:	02/14/2011
Trans2 Recv Date:	02/18/2011
TSD Site Recv Date:	02/21/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	300.0
Units:	P - Pounds
Number of Containers:	5.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	003878981FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	02/14/2011
Trans1 Recv Date:	02/14/2011
Trans2 Recv Date:	02/18/2011
TSD Site Recv Date:	02/21/2011
Part A Recv Date:	Not reported

VAN VLACKS CLEANERS (Continued) **1000872565**

Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	248.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	003878981FLE
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	11/22/2011
Trans1 Recv Date:	11/22/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/29/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	240.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	003006346SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N

VAN VLACKS CLEANERS (Continued) **1000872565**

Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	Not reported
Generator Ship Date:	11/22/2011
Trans1 Recv Date:	11/22/2011
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	11/29/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	248.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	003006346SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	07/07/2011
Trans1 Recv Date:	07/07/2011
Trans2 Recv Date:	07/13/2011
TSD Site Recv Date:	07/14/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported

VAN VLACKS CLEANERS (Continued) **1000872565**

Quantity:	496.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	002689035SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD071629976
Generator Ship Date:	07/07/2011
Trans1 Recv Date:	07/07/2011
Trans2 Recv Date:	07/13/2011
TSD Site Recv Date:	07/14/2011
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	RID084802842
Waste Code:	Not reported
Quantity:	240.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2011
Manifest Tracking Num:	002689035SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H141

VAN VLACKS CLEANERS (Continued) **1000872565**

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD00692061
Generator Ship Date:	08/15/2008
Trans1 Recv Date:	08/15/2008
Trans2 Recv Date:	08/28/2008
TSD Site Recv Date:	09/02/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	200.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001417169SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	OKD981588791
Generator Ship Date:	02/01/2008
Trans1 Recv Date:	02/01/2008
Trans2 Recv Date:	02/11/2008
TSD Site Recv Date:	02/12/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	450.0
Units:	P - Pounds
Number of Containers:	3.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0

VAN VLACKS CLEANERS (Continued) **1000872565**

Year:	2008
Manifest Tracking Num:	000109241SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	NJD000692061
Generator Ship Date:	10/09/2008
Trans1 Recv Date:	10/09/2008
Trans2 Recv Date:	10/15/2008
TSD Site Recv Date:	10/17/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	150.0
Units:	P - Pounds
Number of Containers:	2.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	001370519SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

Document ID:	Not reported
Manifest Status:	Not reported
Trans1 State ID:	TXR000050930
Trans2 State ID:	OKD981588791
Generator Ship Date:	02/01/2008
Trans1 Recv Date:	02/01/2008

VAN VLACKS CLEANERS (Continued) **1000872565**

Trans2 Recv Date:	02/11/2008
TSD Site Recv Date:	02/12/2008
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	NYD987037793
Trans1 EPA ID:	Not reported
Trans2 EPA ID:	Not reported
TSDF ID:	OHD980587364
Waste Code:	Not reported
Quantity:	240.0
Units:	P - Pounds
Number of Containers:	4.0
Container Type:	DF - Fiberboard or plastic drums (glass)
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	1.0
Year:	2008
Manifest Tracking Num:	000109241SKS
Import Ind:	N
Export Ind:	N
Discr Quantity Ind:	N
Discr Type Ind:	N
Discr Residue Ind:	N
Discr Partial Reject Ind:	N
Discr Full Reject Ind:	N
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	H020

RI MANIFEST:

EPA Id:	NYD987037793
Manifest Document Number:	004337190FLE
GEN Cert Date:	9/27/2010
TSDF Id:	RID084802842
TSDF Name:	SAFETY KLEEN
TSDF Date:	10/7/2010
Transporter 2 Id:	NJD071629976
Transporter 2 Name:	10/7/2010
Transporter Receipt Date:	9/27/2010
Number Of Containers:	3
Container Type:	DF
Waste Code1:	D007
Waste Code2:	D029
Waste Code3:	D039
Fee Exempt Code:	Not reported
Comment:	Not reported

Details:

EPA ID:	NYD987037793
Manifest Docket Number:	004337190FLE
Waste Description:	TOXIC LIQUIDS ORGANIC NOS
Quantity:	180
WT/Vol Units:	P
Item Number:	2
Transporter Name:	SAFETY KLEEN
Transporter EPA ID:	TXR000050930
GEN Cert Date:	9/27/2010

VAN VLACKS CLEANERS (Continued) **1000872565**

Transporter Receipt Date: 9/27/2010
Transporter 2 Receipt Date: 10/7/2010
TSDF Receipt Date: 10/7/2010
Transporter 2 ID: NJD071629976

A4 **EDR US Hist Cleaners** **1014965501**
ESE **1 FULTON ST** **N/A**
1/8-1/4 **WAPPINGERS FALLS, NY 12590**
0.149 mi.
789 ft. **Site 2 of 4 in cluster A**

Relative:
Higher

Actual:
75 ft.

EDR Historical Cleaners:

Name: VAN VLACKS CLEANERS
Year: 2006
Address: 1 FULTON ST

Name: VAN VLACKS CLEANERS
Year: 2011
Address: 1 FULTON ST

Name: VAN VLACKS CLEANERS
Year: 2012
Address: 1 FULTON ST

A5 **VAN VLACKS CLEANERS** **NY DRYCLEANERS** **S110248242**
ESE **1 FULTON ST NEW ADDRESS** **N/A**
1/8-1/4 **WAPPINGERS FALLS, NY 12590**
0.149 mi.
789 ft. **Site 3 of 4 in cluster A**

Relative:
Higher

Actual:
75 ft.

DRYCLEANERS:

Facility ID: 3-1356-00242
Phone Number: 845-297-6224
Region: Not reported
Registration Effective Date: 6/2/2004
Inspection Date: 07OCO2
Install Date: 04
Drop Shop: Not reported
Shutdown: Not reported
Alternate Solvent: Not reported
Current Business: Not reported

A6 **OWEN MACHINE SHOP** **RCRA NonGen / NLR** **1000872799**
ESE **3 FULTON AVE** **FINDS** **NYD987040177**
1/8-1/4 **WAPPINGERS FALLS, NY 12590** **NY MANIFEST**
0.151 mi.
799 ft. **Site 4 of 4 in cluster A**

Relative:
Higher

Actual:
78 ft.

RCRA NonGen / NLR:

Date form received by agency: 01/01/2007
Facility name: OWEN MACHINE SHOP
Facility address: 3 FULTON AVE
WAPPINGERS FALLS, NY 125902608
EPA ID: NYD987040177

OWEN MACHINE SHOP (Continued) **1000872799**

Mailing address: FULTON AVE
WAPPINGERS FALLS, NY 12590
Contact: Not reported
Contact address: FULTON AVE
WAPPINGERS FALLS, NY 12590
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 02
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: JERALD OWEN
Owner/operator address: OLD POST RD
WAPPINGERS FALLS, NY 12590
Owner/operator country: US
Owner/operator telephone: (914) 297-6349
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: JERALD OWEN
Owner/operator address: OLD POST RD
WAPPINGERS FALLS, NY 12590
Owner/operator country: US
Owner/operator telephone: (914) 297-6349
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/01/2006
Site name: OWEN MACHINE SHOP
Classification: Not a generator, verified

Date form received by agency: 07/08/1999

OWEN MACHINE SHOP (Continued) **1000872799**

Site name: OWEN MACHINE SHOP
Classification: Not a generator, verified

Date form received by agency: 08/31/1993
Site name: OWEN MACHINE SHOP
Classification: Small Quantity Generator

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

Violation Status: No violations found

FINDS:

Registry ID: 110004508435

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

NY MANIFEST:
EPA ID: NYD987040177
Country: USA
Location Address 1: 3 FULTON AVE
Location Address 2: Not reported
Location City: WAPPINGER FALLS
Location State: NY
Location Zip Code: 12590
Location Zip Code 4: Not reported

Mailing Info:
Name: OWEN MACH SHOP
Contact: JERRY OWEN
Address: 3 FULTON AVE
City/State/Zip: WAPPINGER FALLS, NY 12590
Country: USA
Phone: 914-297-6349

Manifest:

Document ID: TXA0643123
Manifest Status: Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID: 88888
Trans2 State ID: 40582
Generator Ship Date: 03/16/1994
Trans1 Recv Date: 03/16/1994
Trans2 Recv Date: 03/27/1994
TSD Site Recv Date: 03/28/1994
Part A Recv Date: 03/28/1994

OWEN MACHINE SHOP (Continued) **1000872799**

Part B Recv Date:	05/06/1994
Generator EPA ID:	NYD987040177
Trans1 EPA ID:	ILD984908202
Trans2 EPA ID:	NYD980769947
TSDF ID:	TXD077603371
Waste Code:	D002 - NON-LISTED CORROSIVE WASTES
Quantity:	00298
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	T Chemical, physical, or biological treatment.
Specific Gravity:	100
Year:	1994

7
SSE
1/8-1/4
0.203 mi.
1071 ft.

28 FULTON ST
WAPPINGERS FALLS, NY 12590

EDR US Hist Cleaners **1015033503**
N/A

Relative:
Higher

Actual:
91 ft.

EDR Historical Cleaners:

Name:	RIVERA CARPET CLEANING PLUS
Year:	2004
Address:	28 FULTON ST

8
NW
1/4-1/2
0.261 mi.
1378 ft.

OAK TREE GARDEN
120 SHANINGVILLE RD
WAPPINGERS FALLS, NY

NY LTANKS **S102233507**
N/A

Relative:
Higher

Actual:
208 ft.

LTANKS:

Site ID:	220992
Spill Number/Closed Date:	9516759 / 5/29/1997
Spill Date:	3/28/1996
Spill Cause:	Tank Failure
Spill Source:	Institutional, Educational, Gov., Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	1400
Investigator:	VPMCCABE
Referred To:	Not reported
Reported to Dept:	3/28/1996
CID:	349
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	3/28/1996
Spill Record Last Update:	8/11/2004
Spiller Name:	GEORGE ANGEL
Spiller Company:	OAK TREE GARDEN APTS

OAK TREE GARDEN (Continued) **S102233507**

Spiller Address:	120 SHANINGVILLE RD
Spiller City,St,Zip:	WAPPINGERS FALLS, NY
Spiller County:	001
Spiller Contact:	GEORGE ANGEL
Spiller Phone:	(914) 297-1034
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	182787
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MCCABE"05/29/97 LETTER SENT; BASED ON TANK CLOSURE REPORT; NFA.This spill was updated 08/11/2004 from info in V. McCabe's data files. 'Date:' = 03/28/96, 'Phone' = 4/2/1996, 'Site Insp' = .
Remarks:	contaminated soil from underground tank removal - 12 yards of soil stockpiled so far

Material:

Site ID:	220992
Operable Unit ID:	1027682
Operable Unit:	01
Material ID:	353272
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

9
NE
1/4-1/2
0.294 mi.
1550 ft.

RESIDENCE **NY LTANKS** **S102675036**
64 WEST MAIN ST **N/A**
WAPPINGERS FALLS, NY

Relative:
Higher

Actual:
129 ft.

LTANKS:

Site ID:	202300
Spill Number/Closed Date:	9511068 / 12/19/1995
Spill Date:	12/4/1995
Spill Cause:	Tank Overfill
Spill Source:	Private Dwelling
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	12/19/1995
Cleanup Meets Standard:	True
SWIS:	1400
Investigator:	VPMCCABE
Referred To:	Not reported
Reported to Dept:	12/4/1995
CID:	270
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported

RESIDENCE (Continued) **S102675036**

Recommended Penalty: False
UST Involvement: False
Remediation Phase: 0
Date Entered In Computer: 12/4/1995
Spill Record Last Update: 12/19/1995
Spiller Name: MARGARET BENSON
Spiller Company: KOSCO
Spiller Address: PO BOX 760
Spiller City,St,Zip: PORT EWEN NY, NY 12466-
Spiller County: 001
Spiller Contact: TOM TERRALABORO
Spiller Phone: (914) 298-2664
Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 168281
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MCCABE"12/04/95 RESIDENT REQUESTED DELIVERY TO SECOND TANK NO TANK CONNECTED TO SECOND FILL PORT KOSCO RESPONDING
Remarks: ONE FILL HAD NO TANK ATTACHED TO IT

Material:
Site ID: 202300
Operable Unit ID: 1025409
Operable Unit: 01
Material ID: 358420
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 5
Units: Gallons
Recovered: 5
Resource Affected: Not reported
Oxygenate: False

Tank Test:

---

10 ESE 1/4-1/2 0.350 mi. 1848 ft.

Relative: Higher

Actual: 136 ft.

NYNEX BLDG **NY LTANKS** **S102233377**
10 SOUTH ST **N/A**
WAPPINGERS FALLS, NY

LTANKS:
Site ID: 189069
Spill Number/Closed Date: 9508854 / 3/13/1998
Spill Date: 10/11/1995
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: True
SWIS: 1400
Investigator: VPMCCABE
Referred To: Not reported

NYNEX BLDG (Continued) **S102233377**

Reported to Dept:	10/19/1995
CID:	211
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	10/19/1995
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	10/19/1995
Spill Record Last Update:	4/20/1998
Spiller Name:	Not reported
Spiller Company:	NYNEX
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	157884
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MCCABE"10/19/98 KARL WEED REVIEWED REPORT; NFA;
Remarks:	CALLER DOING TANK REMOVAL AND FOUND GROUNDWATER AND SOIL CONTAMINATION - CALLER WILL BE REMOVING MORE TANKS TODAY

Material:

Site ID:	189069
Operable Unit ID:	1023211
Operable Unit:	01
Material ID:	359818
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

11
SE
1/4-1/2
0.378 mi.
1998 ft.

DELANEY **NY LTANKS** **S104516568**
32 SOUTH AVENUE **N/A**
WAPPINGER, NY

Relative:
Higher

Actual:
136 ft.

LTANKS:

Site ID:	174865
Spill Number/Closed Date:	9913107 / 2/18/2000
Spill Date:	2/17/2000
Spill Cause:	Tank Failure
Spill Source:	Private Dwelling
Spill Class:	Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.

DELANEY (Continued) **S104516568**

Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True
SWIS:	1400
Investigator:	vpmccabe
Referred To:	Not reported
Reported to Dept:	2/17/2000
CID:	389
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	2/17/2000
Spill Record Last Update:	8/11/2004
Spiller Name:	Not reported
Spiller Company:	GERALD DELANEY
Spiller Address:	32 SOUTH AVENUE
Spiller City,St,Zip:	WAPPENGER, NY
Spiller County:	001
Spiller Contact:	CALLER
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	147036
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MCCABE/WEITZ"02/18/2000 SEE ONE-PAGE UPDATE BY D. WEITZ; NFAThis spill was updated 08/11/2004 from info in V. McCabe's data files. 'Date:' = 02/17/00, 'Phone' = - -, 'Site Insp' = 2/18/2000.
Remarks:	caller reporting a spill of material from 40-100 gal of oil into the ground from a faulty tank no clean up in progress as of yetno callback necessary

Material:

Site ID:	174865
Operable Unit ID:	1091817
Operable Unit:	01
Material ID:	294965
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

12 South 1/4-1/2 0.393 mi. 2075 ft. | **WAPPINGER FALLS LF**
FRANKLINDALE & CLAPP AVENUES
WAPPINGER FALLS, NY 12590 | **CERC-NFRAP** | **1003863751**
NYD980509392

Relative: Higher

Actual: 120 ft.

CERC-NFRAP:

Site ID:	0201838
Federal Facility:	Not a Federal Facility
NPL Status:	Not on the NPL
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Assessment History:

Action:	SITE INSPECTION
Date Started:	04/01/83
Date Completed:	04/01/83
Priority Level:	NFRAP-Site does not qualify for the NPL based on existing information
Action:	HAZARD RANKING SYSTEM PACKAGE
Date Started:	/ /
Date Completed:	04/01/83
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	/ /
Date Completed:	05/01/83
Priority Level:	Low priority for further assessment
Action:	ARCHIVE SITE
Date Started:	/ /
Date Completed:	03/02/94
Priority Level:	Not reported
Action:	DISCOVERY
Date Started:	/ /
Date Completed:	04/29/80
Priority Level:	Not reported
Action:	PRELIMINARY ASSESSMENT
Date Started:	06/24/88
Date Completed:	06/29/88
Priority Level:	Low priority for further assessment

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13 East 1/4-1/2 0.402 mi. 2124 ft. | **DIAZ**
10 PARK AVE
WAPPINGERS FALLS, NY | **NY LTANKS** | **S105135466**
N/A

Relative: Higher

Actual: 137 ft.

LTANKS:

Site ID:	296713
Spill Number/Closed Date:	0106094 / 9/14/2001
Spill Date:	9/7/2001
Spill Cause:	Tank Overfill
Spill Source:	Commercial Vehicle
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	True

DIAZ (Continued) **S105135466**

SWIS:	1400
Investigator:	VPMCCABE
Referred To:	Not reported
Reported to Dept:	9/7/2001
CID:	282
Water Affected:	Not reported
Spill Notifier:	Responsible Party
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	9/7/2001
Spill Record Last Update:	8/11/2004
Spiller Name:	JODY VOSBURG
Spiller Company:	KINGSTON OIL SUPPLY
Spiller Address:	PO BOX 760
Spiller City,St,Zip:	PORT EWEN, NY 12466-
Spiller County:	001
Spiller Contact:	JOSE DIAZ-OWNER
Spiller Phone:	(845) 297-9692
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	240110
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "MCCABE"09/14/2001 OVERFILLED BY DRIVER ONTO CONCRETE FLOOR OF BASEMENT & OUT VENT INTO GROUND OUTSIDE. KOSCO CREW CLEANED UP. APPROX. 1 QUART SPILLED. NO FURTHER ACTION.This spill was updated 08/11/2004 from info in V. McCabe's data files. 'Date:' = 09/07/01, 'Phone' = 9/14/2001, 'Site Insp' = N/A.
Remarks:	DRIVER POSSIBLY OVERFILLED THE TANK.CREW ENROUTE TO CLEAN UP

Material:

Site ID:	296713
Operable Unit ID:	844489
Operable Unit:	01
Material ID:	530977
Material Code:	0001A
Material Name:	#2 fuel oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	1
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

14 South 1/4-1/2 0.452 mi. 2388 ft. | **WAPPINGERS FALLS VILLAGE LANDFILL**
FRANKLINDALE AVENUE
WAPPINGER, NY 12590 | **NY SHWS** | **S105972486**
N/A

Relative: Higher

Actual: 82 ft.

SHWS:

Program:	HW
Site Code:	57829
Classification:	N
Region:	3
Acres:	2.000
HW Code:	314045
Record Add:	11/18/1999
Record Upd:	12/16/2003
Updated By:	kstang
Site Description:	This site was a municipal landfill which received municipal wastes including village STP dried sludge. Closure of the site included a final soil cover, leachate control and drainage control. No record of hazardous waste disposal at the site exists. The site is currently used for disposal of leaves and brush. The site is a plateau on the side of a steep grade to Wappingers Creek. Drainage from an apartment complex enters the site but is directed around the waste. Many close by residents are on public water. The site is very accessible.
Env Problem:	Sampling in 1979 showed slightly elevated levels of some heavy metals and phenols. A Phase I investigation has been completed. There is no documentation of hazardous waste disposal. The site does not qualify for addition to the Registry of Inactive Hazardous Waste Disposal Sites.
Health Problem:	Not reported
Dump:	Not reported
Structure:	Not reported
Lagoon:	Not reported
Landfill:	Not reported
Pond:	Not reported
Disp Start:	Not reported
Disp Term:	Not reported
Lat/Long:	Not reported
Dell:	Not reported
Record Add:	Not reported
Record Upd:	Not reported
Updated By:	Not reported
Own Op:	Disp. Owner
Sub Type:	NNN
Owner Name:	Not reported
Owner Company:	VILLAGE OF WAPPINGERS FALLS
Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	ZZ
Owner Country:	United States of America
Own Op:	On-Site Operator
Sub Type:	C01
Owner Name:	Not reported
Owner Company:	Village of Wappingers Falls
Owner Address:	7 SPRING STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	WAPPINGERS FALLS, NY 12590
Owner Country:	United States of America
Own Op:	Owner

WAPPINGERS FALLS VILLAGE LANDFILL (Continued) **S105972486**

Sub Type:	C01
Owner Name:	Not reported
Owner Company:	Village of Wappingers Falls
Owner Address:	7 SPRING STREET
Owner Addr2:	Not reported
Owner City,St,Zip:	WAPPINGERS FALLS, NY 12590
Owner Country:	United States of America
HW Code:	Not reported
Waste Type:	Not reported
Waste Quantity:	Not reported
Waste Code:	Not reported
Crossref ID:	Not reported
Cross Ref Type Code:	Not reported
Cross Ref Type:	Not reported
Record Added Date:	Not reported
Record Updated:	Not reported
Updated By:	Not reported

B15 **GULF S/S** **NY LTANKS** **S102109143**
NNE **127 WEST MAIN STREET** **NY Spills** **N/A**
1/4-1/2 **WAPPINGERS FALLS, NY**
0.457 mi.
2412 ft. **Site 1 of 2 in cluster B**

Relative:
Higher

Actual:
130 ft.

LTANKS:

Site ID:	225662
Spill Number/Closed Date:	9105770 / 1/16/1992
Spill Date:	8/28/1991
Spill Cause:	Tank Overfill
Spill Source:	Tank Truck
Spill Class:	Not reported
Cleanup Ceased:	6/18/1953
Cleanup Meets Standard:	True
SWIS:	1400
Investigator:	dxtraver
Referred To:	Not reported
Reported to Dept:	8/28/1991
CID:	Not reported
Water Affected:	Not reported
Spill Notifier:	Fire Department
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	False
Remediation Phase:	0
Date Entered In Computer:	3/17/1992
Spill Record Last Update:	3/20/1992
Spiller Name:	Not reported
Spiller Company:	Not reported
Spiller Address:	Not reported
Spiller City,St,Zip:	***Update***, ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	186273
DEC Memo:	Prior to Sept, 2004 data translation this spill Lead_DEC Field was "TRAVER"

GULF S/S (Continued) **S102109143**

Remarks: HOSE BROKE CONTAINED ON PAVEMENT FD USED SORBENTS TO CLEAN UP NOT SURE WHO IS PICKING UP GULF IS SENDING A CLEAN UP TEAM TO REMOVE SORBENTS AND FINISH CLEAN UP

Material:

Site ID:	225662
Operable Unit ID:	960116
Operable Unit:	01
Material ID:	421543
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	20
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

SPILLS:

Facility ID:	9312044
Facility Type:	ER
DER Facility ID:	186273
Site ID:	200925
DEC Region:	3
Spill Date:	1/12/1994
Spill Number/Closed Date:	9312044 / 2/1/1996
Spill Cause:	Human Error
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	1400
Investigator:	VPMCCABE
Referred To:	Not reported
Reported to Dept:	1/12/1994
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Commercial/Industrial
Spill Notifier:	Responsible Party
Cleanup Ceased:	2/1/1996
Cleanup Meets Std:	True
Last Inspection:	2/1/1994
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/14/1994
Spill Record Last Update:	2/5/1996
Spiller Name:	Not reported
Spiller Company:	BOTTINI FUEL CORP.
Spiller Address:	157 W. MAIN ST.
Spiller City,St,Zip:	WAPPINGERS FALLS, ZZ
Spiller Company:	001
Contact Name:	Not reported
Contact Phone:	Not reported

GULF S/S (Continued) **S102109143**

DEC Memo: Not reported
Remarks: NO HEAT CALL OIL CO. FILLED OBSERVATION WELL INSTEAD OF FUEL TANK

Material:
Site ID: 200925
Operable Unit ID: 994046
Operable Unit: 01
Material ID: 391050
Material Code: 0001A
Material Name: #2 fuel oil
Case No.: Not reported
Material FA: Petroleum
Quantity: 100
Units: Gallons
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:

B16
NNE
1/4-1/2
0.457 mi.
2412 ft.

Relative:
Higher

Actual:
130 ft.

WAPPINGERS TEXACO **NY LTANKS** **S104514285**
127-129 WEST MAIN ST **N/A**
WAPPINGERS FALLS, NY

Site 2 of 2 in cluster B

LTANKS:
Site ID: 154826
Spill Number/Closed Date: 8707094 / 9/7/1988
Spill Date: 11/13/1987
Spill Cause: Tank Test Failure
Spill Source: Gasoline Station or other PBS Facility
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: 9/7/1988
Cleanup Meets Standard: True
SWIS: 1400
Investigator: jeokesso
Referred To: Not reported
Reported to Dept: 11/18/1987
CID: Not reported
Water Affected: Not reported
Spill Notifier: Responsible Party
Last Inspection: 9/7/1988
Recommended Penalty: False
UST Involvement: True
Remediation Phase: 0
Date Entered In Computer: 11/25/1987
Spill Record Last Update: 9/7/1988
Spiller Name: Not reported
Spiller Company: SPAIN OIL
Spiller Address: Not reported
Spiller City,St,Zip: ZZ
Spiller County: 001
Spiller Contact: Not reported
Spiller Phone: Not reported

WAPPINGERS TEXACO (Continued) **S104514285**

Spiller Extention: Not reported
DEC Region: 3
DER Facility ID: 131238
DEC Memo: Prior to Sept, 2004 data translation this spill Lead_DEC Field was "OKESSON"09/07/88: RETEST PASSED.
Remarks: RETEST

Material:
Site ID: 154826
Operable Unit ID: 910984
Operable Unit: 01
Material ID: 466071
Material Code: 0009
Material Name: gasoline
Case No.: Not reported
Material FA: Petroleum
Quantity: 0
Units: Not reported
Recovered: No
Resource Affected: Not reported
Oxygenate: False

Tank Test:
Site ID: 154826
Spill Tank Test: 1532337
Tank Number: Not reported
Tank Size: 0
Test Method: 00
Leak Rate: 0
Gross Fail: Not reported
Modified By: Spills
Last Modified: 10/1/2004
Test Method: Unknown

17
SSE
1/4-1/2
0.475 mi.
2507 ft.

EXXON S/S-MID.VAL. **NY LTANKS** **S103037551**
60 SOUTH AVE **N/A**
WAPPINGERS FALLS, NY

Relative:
Higher

Actual:
135 ft.

LTANKS:
Site ID: 75191
Spill Number/Closed Date: 8710041 / 10/19/2004
Spill Date: 12/30/1986
Spill Cause: Tank Failure
Spill Source: Commercial/Industrial
Spill Class: Known release that creates potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased: Not reported
Cleanup Meets Standard: False
SWIS: 1456
Investigator: SLINGERLAND
Referred To: Not reported
Reported to Dept: 2/29/1988
CID: Not reported
Water Affected: Not reported

EXXON S/S-MID.VAL. (Continued) **S103037551**

Spill Notifier:	Responsible Party
Last Inspection:	8/3/1988
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	3/9/1988
Spill Record Last Update:	10/6/2005
Spiller Name:	Not reported
Spiller Company:	GARY MCCLELLAND,EXXON
Spiller Address:	Not reported
Spiller City,St,Zip:	ZZ
Spiller County:	001
Spiller Contact:	Not reported
Spiller Phone:	Not reported
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	70417
DEC Memo:	Based on the 6/9/03 report prepared by Passaretti Geological, impacts to groundwater have decreased significantly and are either very low or ND.NFA
Remarks:	WHEN TANK WERE PULLED CONTAMINATED SOIL/GROUND WATER WAS FOUND. ENG.,EXXON,INSTALLED M.W. WILL MAIL COPIES OF THE TEST RESULTS AND REPORTS TO DEC FOR DECISION. WELL #6,7HAD A SHEEN.

Material:

Site ID:	75191
Operable Unit ID:	915624
Operable Unit:	01
Material ID:	2106604
Material Code:	1213A
Material Name:	MTBE (methyl-tert-butyl ether)
Case No.:	01634044
Material FA:	Hazardous Material
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	True
Site ID:	75191
Operable Unit ID:	915624
Operable Unit:	01
Material ID:	461827
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	True

Tank Test:

C18 NNE 1/4-1/2 0.477 mi. 2521 ft. | **WAPPINGER FALLS GAS S/S**
2755 WEST MAIN STREET
WAPPINGERS FALLS, NY | **NY LTANKS** | **S105998302**
N/A

Site 1 of 2 in cluster C

Relative: Higher

Actual: 131 ft.

LTANKS:

Site ID:	89573
Spill Number/Closed Date:	0211965 / 3/20/2003
Spill Date:	3/4/2003
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	1456
Investigator:	VPMCCABE
Referred To:	Not reported
Reported to Dept:	3/4/2003
CID:	257
Water Affected:	Not reported
Spill Notifier:	Tank Tester
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	0
Date Entered In Computer:	3/4/2003
Spill Record Last Update:	7/22/2014
Spiller Name:	STEVE MCGLINCHEY
Spiller Company:	WAPPINGER FALLS GAS STAT
Spiller Address:	127 WEST MAIN ST
Spiller City,St,Zip:	WAPPINGER FALLS, NY
Spiller County:	001
Spiller Contact:	STEVE MCGLINCHEY
Spiller Phone:	(845) 561-4000
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	295671
DEC Memo:	7-22-14: V.Mc.: See 050-4414/ACT.Also see spill # 010-9342/NFA: 4-1-09 Not reported
Remarks:	tank taken out of service until repairs are made

Material:

Site ID:	89573
Operable Unit ID:	865414
Operable Unit:	01
Material ID:	511743
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

WAPPINGER FALLS GAS S/S (Continued) **S105998302**

Tank Test:

C19 NNE 1/4-1/2 0.477 mi. 2521 ft. **DUTCHESS GARAGE: CLOSED** **NY LTANKS** **S107522380**
2755 WEST MAIN STREET **NY Spills** **N/A**
WAPPINGERS FALLS, NY 12590

Site 2 of 2 in cluster C

Relative: Higher

Actual: 131 ft.

LTANKS:

Site ID:	349221
Spill Number/Closed Date:	0504414 / Not Reported
Spill Date:	7/13/2005
Spill Cause:	Tank Test Failure
Spill Source:	Gasoline Station or other PBS Facility
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
Cleanup Ceased:	Not reported
Cleanup Meets Standard:	False
SWIS:	1456
Investigator:	MBMASTRO
Referred To:	Not reported
Reported to Dept:	7/13/2005
CID:	444
Water Affected:	Not reported
Spill Notifier:	Other
Last Inspection:	Not reported
Recommended Penalty:	False
UST Involvement:	True
Remediation Phase:	4
Date Entered In Computer:	7/13/2005
Spill Record Last Update:	8/22/2014
Spiller Name:	GARY BORGIA
Spiller Company:	WAPPERINGERS FALLS EXXON
Spiller Address:	2755 WEST MAIN STREET
Spiller City,St,Zip:	WAPPERINGERS FALLS, NY
Spiller County:	001
Spiller Contact:	GARY BORGIA
Spiller Phone:	(845) 297-6880
Spiller Extention:	Not reported
DEC Region:	3
DER Facility ID:	295671
DEC Memo:	7-13-05: D.Tr.: INC. IN DISSOLVED Gr.Wat. CONTAMINATION, FORMER SPAIN OIL/WAREX SITE. SEE: 021-1965 - TTF, NFA 3-20-03, Ref. to 010-9342. 050-4168 - TTF, NFA 7-8-06, Ref. to : 050-4414. 051-2380 - TTF, NFA 1-25-06, Ref. to: 050-4414.4/28/09: After reviewing the files for this site, spill # 01-9342 will be closed and this spill will remain open. This site was sold in '04 and in '05 there was a significant increase in groundwater contamination....mm5/21/13 A drum (blue plastic carboy) was discovered on site. Drum is bulging and plastic is cracking. Small leak to leaves and other debris on the pavement. No soil impacted. TriState has been hired. Drum has been sampled for disposal and overpacked. Contaminated debris has been removed...mm7-23-14: V.Mc.: See 1 page update, inc. phone site inspection noting:*) 5-17-13: M.M. call to V.Mc.: Confirm Drum.*) 7-22-14: V.Mc. & D.B.: New report, 140-4291, of aband.drum. Prior report of aband. drum, aprx. 1 to 2 years ago, handled by M.M. then.

DUTCHESS GARAGE: CLOSED (Continued) **S107522380**

PIN and Spill # both still active. V.Mc. to site inspect to confirm.*) 7-22-14: V.Mc. site inspection: No activity on site at time of inspection. Confirm poly drum right side of building, between building and fence of adj. property. Proceeded to V/Wap.Fall Hall, met with Bryan Murphy/Build-Zone. Taxes are not being paik, Village not going to take over property. Currently zoned as res., may try to re-zone as comm.*) 7-22-14: V.Mc. & D.Ben.: Drum not leaking at this time, OK for now.

Remarks: DURING SOIL BORINGS FOUND CONTAMINATION

Material:

Site ID:	349221
Operable Unit ID:	1106849
Operable Unit:	01
Material ID:	2096168
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

SPILLS:

Facility ID:	1107414
Facility Type:	ER
DER Facility ID:	411537
Site ID:	455111
DEC Region:	3
Spill Date:	9/12/2011
Spill Number/Closed Date:	1107414 / 3/28/2012
Spill Cause:	Housekeeping
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	1456
Investigator:	JPCUMMIN
Referred To:	Not reported
Reported to Dept:	9/12/2011
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	DEC
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	9/12/2011
Spill Record Last Update:	3/28/2012

DUTCHESS GARAGE: CLOSED (Continued) **S107522380**

Spiller Name:	Not reported
Spiller Company:	borgia petroleum
Spiller Address:	110 brandy lane
Spiller City,St,Zip:	wappingers falls, NY
Spiller Company:	999
Contact Name:	GARY BORGIA
Contact Phone:	(845) 221-9725
DEC Memo:	Waste oil found in spill bucket for waste oil tank (tank 5) during inspection. Site is vacant. NOV to be sent.10-24-11: V.Mc.: See 1 page update, inc. site inspection of 10-20-11, noting:No activity at time of inspection. S/S is closed at this time. No work towards removal of UST's done. V.Mc. call to M.M.: old spill number closed for this loc. Sign in window, call Gary @ 845 298 3368. See : 050-4414NFA.3-7-12 No documentation found that spill cleaned up. Spill reopened. NOV sent. jc3/28/2012 -- May warrant enforcement. No known enviro impacts. nfa ELM
Remarks:	See DEC remarks

Material:

Site ID:	455111
Operable Unit ID:	1205263
Operable Unit:	01
Material ID:	2202106
Material Code:	0022
Material Name:	waste oil/used oil
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	1404291
Facility Type:	ER
DER Facility ID:	295671
Site ID:	497681
DEC Region:	3
Spill Date:	7/21/2014
Spill Number/Closed Date:	1404291 / 7/21/2014
Spill Cause:	Abandoned Drums
Spill Class:	Possible release with minimal potential for fire or hazard or Known release with no damage. (Highly Improbable)
SWIS:	1456
Investigator:	MBMASTRO
Referred To:	Not reported
Reported to Dept:	7/21/2014
CID:	Not reported
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Citizen
Cleanup Ceased:	Not reported
Cleanup Meets Std:	False
Last Inspection:	Not reported

DUTCHESS GARAGE: CLOSED (Continued) **S107522380**

Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	7/21/2014
Spill Record Last Update:	7/22/2014
Spiller Name:	Not reported
Spiller Company:	ABANDONED STATION
Spiller Address:	2755 WEST MAIN STREET
Spiller City,St,Zip:	WAPPINGERS FALLS, NY
Spiller Company:	999
Contact Name:	RONALD LASUSA
Contact Phone:	845 416 4201
DEC Memo:	7/21/14: Multiple spill numbers on this property. Spill 0504414 is currently open. This is an abandoned gas station, former PBS facility. Vince McCabe is aware of the situation and states the property is being handled my Melissa Mastro.*I called the Caller and reached a voice mail system, left a message with the dispatch desk number. jod7-22-14: V.Mc.: Close and ref. to 050-4414/ACT.
Remarks:	Abandoned gas station. Leaking various unknown chemicals. Facility abandoned.

Material:

Site ID:	497681
Operable Unit ID:	1247139
Operable Unit:	01
Material ID:	2248379
Material Code:	0063A
Material Name:	unknown hazardous material
Case No.:	Not reported
Material FA:	Hazardous Material
Quantity:	Not reported
Units:	Not reported
Recovered:	Not reported
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Facility ID:	0512380
Facility Type:	ER
DER Facility ID:	308679
Site ID:	358694
DEC Region:	3
Spill Date:	1/25/2006
Spill Number/Closed Date:	0512380 / 1/25/2006
Spill Cause:	Other
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.
SWIS:	1446
Investigator:	RDBENDEL
Referred To:	Not reported
Reported to Dept:	1/25/2006
CID:	444
Water Affected:	Not reported
Spill Source:	Gasoline Station or other PBS Facility
Spill Notifier:	Other

DUTCHESS GARAGE: CLOSED (Continued) **S107522380**

Cleanup Ceased:	Not reported
Cleanup Meets Std:	True
Last Inspection:	Not reported
Recommended Penalty:	False
UST Trust:	False
Remediation Phase:	0
Date Entered In Computer:	1/25/2006
Spill Record Last Update:	10/14/2009
Spiller Name:	GARY BORGIA
Spiller Company:	GAS STATION
Spiller Address:	2755 WEST MAIN STREET
Spiller City,St,Zip:	WAPPERGERS FALLS, NY
Spiller Company:	001
Contact Name:	GARY BORGIA
Contact Phone:	(845) 297-6880
DEC Memo:	SEE SPILL # 0504414 - ACT. SPILL # 0504168 - NFA. 7/8/05
Remarks:	TIGHTNESS TEST FAILED

Material:

Site ID:	358694
Operable Unit ID:	1115925
Operable Unit:	01
Material ID:	2106036
Material Code:	0009
Material Name:	gasoline
Case No.:	Not reported
Material FA:	Petroleum
Quantity:	0
Units:	Gallons
Recovered:	No
Resource Affected:	Not reported
Oxygenate:	False

Tank Test:

Site ID:	358694
Spill Tank Test:	1549671
Tank Number:	4
Tank Size:	4000
Test Method:	03
Leak Rate:	0
Gross Fail:	Not reported
Modified By:	Watchdog
Last Modified:	1/25/2006
Test Method:	Horner EZ Check I or II

20
South
1/4-1/2
0.494 mi.
2610 ft.

WAPPINGERS FALLS (V) **NY SWF/LF** **S106615604**
UNKNOWN **N/A**
WAPPINGERS FALLS, NY unkno

Relative:
Higher

Actual:
85 ft.

SWF/LF:

Flag:	INACTIVE
Region Code:	3
Phone Number:	Not reported
Owner Name:	Not reported
Owner Type:	Not reported

WAPPINGERS FALLS (V) (Continued) **S106615604**

Owner Address:	Not reported
Owner Addr2:	Not reported
Owner City,St,Zip:	Not reported
Owner Email:	Not reported
Owner Phone:	Not reported
Contact Name:	Not reported
Contact Address:	Not reported
Contact Addr2:	Not reported
Contact City,St,Zip:	Not reported
Contact Email:	Not reported
Contact Phone:	Not reported
Activity Desc:	Landfill - municipal solid waste
Activity Number:	[14S86]
Active:	No
East Coordinate:	589672
North Coordinate:	4604963
Accuracy Code:	Not reported
Regulatory Status:	None
Waste Type:	Not reported
Authorization #:	0
Authorization Date:	Not reported
Expiration Date:	Not reported

Count: 3 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
WAPPINGER FALLS	1003863733	DUTCHESS AIRPORT LF	AIRPORT PARK/ROUTE 376	12590	CERC-NFRAP
WAPPINGERS FALLS	S110246541	EVENAL CLEANERS	DUTCHESS SHOPPING CNTR, RT 9	12590	NY DRYCLEANERS
WAPPINGERS FALLS	S105114250	THREE STAR ANODIZING	MARKET STREET	12590	NY SHWS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 75

Source: EPA
Telephone: N/A
Last EDR Contact: 07/09/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 04/08/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 75

Source: EPA
Telephone: N/A
Last EDR Contact: 07/09/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/26/2015	Source: EPA
Date Data Arrived at EDR: 04/08/2015	Telephone: N/A
Date Made Active in Reports: 06/22/2015	Last EDR Contact: 07/09/2015
Number of Days to Update: 75	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 03/26/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/08/2015	Telephone: 703-603-8704
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 07/10/2015
Number of Days to Update: 64	Next Scheduled EDR Contact: 10/19/2015
	Data Release Frequency: Varies

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 11/11/2013	Telephone: 703-412-9810
Date Made Active in Reports: 02/13/2014	Last EDR Contact: 05/29/2015
Number of Days to Update: 94	Next Scheduled EDR Contact: 09/07/2015
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/28/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 13

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/12/2015
Next Scheduled EDR Contact: 11/30/2015
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/01/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/16/2015
Date Data Arrived at EDR: 03/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 77

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 06/01/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 63

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: Inactive Hazardous Waste Disposal Sites in New York State

Referred to as the State Superfund Program, the Inactive Hazardous Waste Disposal Site Remedial Program is the cleanup program for inactive hazardous waste sites and now includes hazardous substance sites

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 06/30/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Annually

VAPOR REOPENED: Vapor Intrustion Legacy Site List

New York is currently re-evaluating previous assumptions and decisions regarding the potential for soil vapor intrusion exposures at sites. As a result, all past, current, and future contaminated sites will be evaluated to determine whether these sites have the potential for exposures related to soil vapor intrusion.

Date of Government Version: 11/01/2014
Date Data Arrived at EDR: 11/19/2014
Date Made Active in Reports: 01/12/2015
Number of Days to Update: 54

Source: Department of Environmenal Conservation
Telephone: 518-402-9814
Last EDR Contact: 05/22/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Facility Register

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-457-2051
Last EDR Contact: 07/06/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/29/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 24

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 29

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 01/08/2015
Date Data Arrived at EDR: 01/08/2015
Date Made Active in Reports: 02/09/2015
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/31/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 48

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 04/28/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 55

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 03/17/2015
Date Data Arrived at EDR: 05/01/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 52

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 04/30/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 53

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/31/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

LTANKS: Spills Information Database
Leaking Storage Tank Incident Reports. These records contain an inventory of reported leaking storage tank incidents reported from 4/1/86 through the most recent update. They can be either leaking underground storage tanks or leaking aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills.

Date of Government Version: 07/21/2015
Date Data Arrived at EDR: 07/21/2015
Date Made Active in Reports: 08/04/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/21/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

HIST LTANKS: Listing of Leaking Storage Tanks
A listing of leaking underground and aboveground storage tanks. The causes of the incidents are tank test failures, tank failures or tank overfills. In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY LTANKS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/10/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Varies

UST: Petroleum Bulk Storage (PBS) Database
Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 07/29/2015
Date Data Arrived at EDR: 07/29/2015
Date Made Active in Reports: 08/21/2015
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/29/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: No Update Planned

CBS UST: Chemical Bulk Storage Database
Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 10/24/2005
Next Scheduled EDR Contact: 01/23/2006
Data Release Frequency: No Update Planned

MOSF UST: Major Oil Storage Facilities Database
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

CBS: Chemical Bulk Storage Site Listing
These facilities store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size

Date of Government Version: 07/29/2015
Date Data Arrived at EDR: 07/29/2015
Date Made Active in Reports: 08/21/2015
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/29/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

MOSF: Major Oil Storage Facility Site Listing
These facilities may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 07/29/2015
Date Data Arrived at EDR: 07/29/2015
Date Made Active in Reports: 08/21/2015
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/29/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Quarterly

AST: Petroleum Bulk Storage
Registered Aboveground Storage Tanks.

Date of Government Version: 07/29/2015
Date Data Arrived at EDR: 07/29/2015
Date Made Active in Reports: 08/21/2015
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/29/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: No Update Planned

CBS AST: Chemical Bulk Storage Database

Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

MOSF AST: Major Oil Storage Facilities Database

Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 02/20/2002
Date Made Active in Reports: 03/22/2002
Number of Days to Update: 30

Source: NYSDEC
Telephone: 518-402-9549
Last EDR Contact: 07/25/2005
Next Scheduled EDR Contact: 10/24/2005
Data Release Frequency: No Update Planned

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 03/17/2015
Date Data Arrived at EDR: 05/01/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 52

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 12/14/2014
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 28

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/31/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/06/2015
Date Data Arrived at EDR: 05/19/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 34

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/03/2015
Date Data Arrived at EDR: 04/30/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 53

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/31/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/26/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 27

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/30/2015
Date Data Arrived at EDR: 05/05/2015
Date Made Active in Reports: 06/22/2015
Number of Days to Update: 48

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 09/30/2014
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/13/2015
Number of Days to Update: 10

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Semi-Annually

State and tribal institutional control / engineering control registries

RES DECL: Restrictive Declarations Listing

A restrictive declaration is a covenant running with the land which binds the present and future owners of the property. As a condition of certain special permits, the City Planning Commission may require an applicant to sign and record a restrictive declaration that places specified conditions on the future use and development of the property. Certain restrictive declarations are indicated by a D on zoning maps.

Date of Government Version: 11/18/2010
Date Data Arrived at EDR: 06/30/2014
Date Made Active in Reports: 07/21/2014
Number of Days to Update: 21

Source: NYC Department of City Planning
Telephone: 212-720-3401
Last EDR Contact: 06/25/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Varies

ENV RES DECL: Environmental Restrictive Declarations

The Environmental Restrictive Declarations (ERD) listed were recorded in connection with a zoning action against the noted Tax Blocks and Tax Lots, or portion thereof, and are available in the property records on file at the Office of the City Register for Bronx, Kings, New York and Queens counties or at the Richmond County Clerk's office. They contain environmental requirements with respect to hazardous materials, air quality and/or noise in accordance with Section 11-15 of this Resolution.

Date of Government Version: 03/31/2015
Date Data Arrived at EDR: 06/25/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 27

Source: New York City Department of City Planning
Telephone: 212-720-3300
Last EDR Contact: 06/19/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Varies

ENG CONTROLS: Registry of Engineering Controls

Environmental Remediation sites that have engineering controls in place.

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 06/30/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

INST CONTROL: Registry of Institutional Controls

Environmental Remediation sites that have institutional controls in place.

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 06/30/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9553
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 09/29/2014
Date Data Arrived at EDR: 10/01/2014
Date Made Active in Reports: 11/06/2014
Number of Days to Update: 36

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

VCP: Voluntary Cleanup Agreements

New York established its Voluntary Cleanup Program (VCP) to address the environmental, legal and financial barriers that often hinder the redevelopment and reuse of contaminated properties. The Voluntary Cleanup Program was developed to enhance private sector cleanup of brownfields by enabling parties to remediate sites using private rather than public funds and to reduce the development pressures on "greenfield" sites.

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 06/30/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9711
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Semi-Annually

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields Site List
A Brownfield is any real property where redevelopment or re-use may be complicated by the presence or potential presence of a hazardous waste, petroleum, pollutant, or contaminant.

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 06/30/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9764
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Semi-Annually

ERP: Environmental Restoration Program Listing
In an effort to spur the cleanup and redevelopment of brownfields, New Yorkers approved a $200 million Environmental Restoration or Brownfields Fund as part of the $1.75 billion Clean Water/Clean Air Bond Act of 1996 (1996 Bond Act). Enhancements to the program were enacted on October 7, 2003. Under the Environmental Restoration Program, the State provides grants to municipalities to reimburse up to 90 percent of on-site eligible costs and 100% of off-site eligible costs for site investigation and remediation activities. Once remediated, the property may then be reused for commercial, industrial, residential or public use.

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 06/30/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/23/2015
Date Data Arrived at EDR: 03/24/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 70

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/24/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWTIRE: Registered Waste Tire Storage & Facility List
A listing of facilities registered to accept waste tires.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 11/15/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8694
Last EDR Contact: 07/15/2015
Next Scheduled EDR Contact: 11/02/2015
Data Release Frequency: Annually

SWRCY: Registered Recycling Facility List
A listing of recycling facilities.

Date of Government Version: 06/24/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-8705
Last EDR Contact: 07/06/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Semi-Annually

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/01/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/29/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: No Update Planned

DEL SHWS: Delisted Registry Sites
A database listing of sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites.

Date of Government Version: 06/26/2015
Date Data Arrived at EDR: 06/30/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 22

Source: Department of Environmental Conservation
Telephone: 518-402-9622
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Annually

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/25/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/29/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

HIST UST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. It is no longer updated due to the sensitive nature of the information involved. See UST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

HIST AST: Historical Petroleum Bulk Storage Database

These facilities have petroleum storage capabilities in excess of 1,100 gallons and less than 400,000 gallons. This database contains detailed information per site. No longer updated due to the sensitive nature of the information involved. See AST for more current data.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 06/02/2006
Date Made Active in Reports: 07/20/2006
Number of Days to Update: 48

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Spill Liens Information

Lien information from the Oil Spill Fund.

Date of Government Version: 08/10/2015
Date Data Arrived at EDR: 08/11/2015
Date Made Active in Reports: 08/21/2015
Number of Days to Update: 10

Source: Office of the State Comptroller
Telephone: 518-474-9034
Last EDR Contact: 08/10/2015
Next Scheduled EDR Contact: 11/23/2015
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/30/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Annually

SPILLS: Spills Information Database
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 07/21/2015
Date Data Arrived at EDR: 07/21/2015
Date Made Active in Reports: 08/04/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/21/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

HIST SPILLS: SPILLS Database
This database contains records of chemical and petroleum spill incidents. Under State law, petroleum and hazardous chemical spills that can impact the waters of the state must be reported by the spiller (and, in some cases, by anyone who has knowledge of the spills). In 2002, the Department of Environmental Conservation stopped providing updates to its original Spills Information Database. This database includes fields that are no longer available from the NYDEC as of January 1, 2002. Current information may be found in the NY SPILLS database. Department of Environmental Conservation.

Date of Government Version: 01/01/2002
Date Data Arrived at EDR: 07/08/2005
Date Made Active in Reports: 07/14/2005
Number of Days to Update: 6

Source: Department of Environmental Conservation
Telephone: 518-402-9549
Last EDR Contact: 07/07/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 12/14/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/12/2013
Number of Days to Update: 40

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch
Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 11/02/2010
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 03/07/2013
Number of Days to Update: 63

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 03/31/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 72

Source: Environmental Protection Agency
Telephone: (212) 637-3660
Last EDR Contact: 06/26/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 06/06/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 09/18/2014
Number of Days to Update: 8

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 07/08/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/14/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/14/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/21/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/09/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 08/12/2015
Next Scheduled EDR Contact: 11/30/2015
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 08/04/2015
Next Scheduled EDR Contact: 11/23/2015
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/14/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/25/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/12/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 110

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 01/29/2015
Next Scheduled EDR Contact: 06/08/2015
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/12/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2015
Date Data Arrived at EDR: 02/13/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/22/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 05/14/2015
Next Scheduled EDR Contact: 08/24/2015
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 10/15/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 33

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/17/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 01/23/2015
Date Data Arrived at EDR: 02/06/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 07/09/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/20/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/20/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/31/2015
Date Data Arrived at EDR: 04/09/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 63

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 06/04/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/12/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 07/31/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/07/2015
Date Data Arrived at EDR: 04/09/2015
Date Made Active in Reports: 06/11/2015
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/09/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 08/04/2015
Next Scheduled EDR Contact: 11/16/2015
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/02/2015
Number of Days to Update: 46

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/12/2015
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2011
Date Data Arrived at EDR: 02/26/2013
Date Made Active in Reports: 04/19/2013
Number of Days to Update: 52

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/29/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/14/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Semi-Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/26/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 11/25/2014
Date Data Arrived at EDR: 11/26/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/07/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/16/2014
Date Data Arrived at EDR: 10/31/2014
Date Made Active in Reports: 11/17/2014
Number of Days to Update: 17

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 06/22/2015
Next Scheduled EDR Contact: 10/22/2015
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 12/30/2014
Date Data Arrived at EDR: 12/31/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 06/03/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/05/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/05/2015
Next Scheduled EDR Contact: 09/14/2015
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/18/2015
Date Data Arrived at EDR: 02/27/2015
Date Made Active in Reports: 03/25/2015
Number of Days to Update: 26

Source: EPA
Telephone: (212) 637-3000
Last EDR Contact: 06/10/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Quarterly

AIRS: Air Emissions Data
Point source emissions inventory data.

Date of Government Version: 04/17/2015
Date Data Arrived at EDR: 04/23/2015
Date Made Active in Reports: 05/20/2015
Number of Days to Update: 27

Source: Department of Environmental Conservation
Telephone: 518-402-8452
Last EDR Contact: 07/27/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: Annually

COAL ASH: Coal Ash Disposal Site Listing
A listing of coal ash disposal site locations.

Date of Government Version: 07/05/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 14

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 07/06/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Varies

DRYCLEANERS: Registered Drycleaners
A listing of all registered drycleaning facilities.

Date of Government Version: 07/02/2015
Date Data Arrived at EDR: 07/13/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 9

Source: Department of Environmental Conservation
Telephone: 518-402-8403
Last EDR Contact: 06/11/2015
Next Scheduled EDR Contact: 09/28/2015
Data Release Frequency: Varies

E DESIGNATION: E DESIGNATION SITE LISTING
The (E (Environmental)) designation would ensure that sampling and remediation take place on the subject properties, and would avoid any significant impacts related to hazardous materials at these locations. The (E) designations would require that the fee owner of the sites conduct a testing and sampling protocol, and remediation where appropriate, to the satisfaction of the NYCDEP before the issuance of a building permit by the Department of Buildings pursuant to the provisions of Section 11-15 of the Zoning Resolution (Environmental Requirements). The (E) designations also include a mandatory construction-related health and safety plan which must be approved by NYCDEP.

Date of Government Version: 05/27/2015
Date Data Arrived at EDR: 06/25/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 27

Source: New York City Department of City Planning
Telephone: 718-595-6658
Last EDR Contact: 06/19/2015
Next Scheduled EDR Contact: 10/05/2015
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 07/13/2015
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 08/04/2015
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-8660
Last EDR Contact: 07/06/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for hazardous waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 10/01/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 23

Source: Department of Environmental Conservation
Telephone: 518-402-8712
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: Varies

HSWDS: Hazardous Substance Waste Disposal Site Inventory

The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Disposal Sites and non-Registry sites that U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared. Hazardous Substance Waste Disposal Sites are eligible to be Superfund sites now that the New York State Superfund has been refinanced and changed. This means that the study inventory has served its purpose and will no longer be maintained as a separate entity. The last version of the study inventory is frozen in time. The sites on the study will not automatically be made Superfund sites, rather each site will be further evaluated for listing on the Registry. So overtime they will be added to the registry or not.

Date of Government Version: 01/01/2003
Date Data Arrived at EDR: 10/20/2006
Date Made Active in Reports: 11/30/2006
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-9564
Last EDR Contact: 05/26/2009
Next Scheduled EDR Contact: 08/24/2009
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2015
Date Data Arrived at EDR: 08/06/2015
Date Made Active in Reports: 08/24/2015
Number of Days to Update: 18

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/06/2015
Next Scheduled EDR Contact: 11/16/2015
Data Release Frequency: Annually

SPDES: State Pollutant Discharge Elimination System

New York State has a state program which has been approved by the United States Environmental Protection Agency for the control of wastewater and stormwater discharges in accordance with the Clean Water Act. Under New York State law the program is known as the State Pollutant Discharge Elimination System (SPDES) and is broader in scope than that required by the Clean Water Act in that it controls point source discharges to groundwaters as well as surface waters.

Date of Government Version: 07/29/2015
Date Data Arrived at EDR: 07/31/2015
Date Made Active in Reports: 08/21/2015
Number of Days to Update: 21

Source: Department of Environmental Conservation
Telephone: 518-402-8233
Last EDR Contact: 07/27/2015
Next Scheduled EDR Contact: 11/09/2015
Data Release Frequency: No Update Planned

UIC: Underground Injection Control Wells

A listing of enhanced oil recovery underground injection wells.

Date of Government Version: 06/05/2015
Date Data Arrived at EDR: 06/11/2015
Date Made Active in Reports: 07/22/2015
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 518-402-8056
Last EDR Contact: 06/11/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR US Hist Auto Stat: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR US Hist Cleaners: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in New York.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/10/2014
Number of Days to Update: 193

Source: Department of Environmental Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COUNTY RECORDS

CORTLAND COUNTY:

Cortland County Storage Tank Listing
A listing of aboveground storage tank sites located in Cortland County.

Date of Government Version: 06/05/2015
Date Data Arrived at EDR: 06/09/2015
Date Made Active in Reports: 06/19/2015
Number of Days to Update: 10

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 08/03/2015
Next Scheduled EDR Contact: 11/16/2015
Data Release Frequency: Quarterly

Cortland County Storage Tank Listing
A listing of underground storage tank sites located in Cortland County.

Date of Government Version: 06/05/2015
Date Data Arrived at EDR: 06/09/2015
Date Made Active in Reports: 06/19/2015
Number of Days to Update: 10

Source: Cortland County Health Department
Telephone: 607-753-5035
Last EDR Contact: 08/03/2015
Next Scheduled EDR Contact: 11/16/2015
Data Release Frequency: Quarterly

NASSAU COUNTY:

Registered Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 04/16/2015
Date Data Arrived at EDR: 07/07/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 36

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/01/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of aboveground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 08/03/2015
Next Scheduled EDR Contact: 11/16/2015
Data Release Frequency: Varies

Registered Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 04/16/2015
Date Data Arrived at EDR: 07/07/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 36

Source: Nassau County Health Department
Telephone: 516-571-3314
Last EDR Contact: 07/01/2015
Next Scheduled EDR Contact: 10/19/2015
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Nassau County.

Date of Government Version: 02/15/2011
Date Data Arrived at EDR: 02/23/2011
Date Made Active in Reports: 03/29/2011
Number of Days to Update: 34

Source: Nassau County Office of the Fire Marshal
Telephone: 516-572-1000
Last EDR Contact: 08/03/2015
Next Scheduled EDR Contact: 11/16/2015
Data Release Frequency: Varies

ROCKLAND COUNTY:

Petroleum Bulk Storage Database
A listing of aboveground storage tank sites located in Rockland County.

Date of Government Version: 06/17/2015
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/23/2015
Number of Days to Update: 34

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 06/08/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Quarterly

Petroleum Bulk Storage Database
A listing of underground storage tank sites located in Rockland County.

Date of Government Version: 06/17/2015
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/23/2015
Number of Days to Update: 34

Source: Rockland County Health Department
Telephone: 914-364-2605
Last EDR Contact: 06/08/2015
Next Scheduled EDR Contact: 09/21/2015
Data Release Frequency: Quarterly

SUFFOLK COUNTY:

Storage Tank Database
A listing of aboveground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 13

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 08/03/2015
Next Scheduled EDR Contact: 11/16/2015
Data Release Frequency: No Update Planned

Storage Tank Database
A listing of underground storage tank sites located in Suffolk County.

Date of Government Version: 03/03/2015
Date Data Arrived at EDR: 03/10/2015
Date Made Active in Reports: 03/23/2015
Number of Days to Update: 13

Source: Suffolk County Department of Health Services
Telephone: 631-854-2521
Last EDR Contact: 08/03/2015
Next Scheduled EDR Contact: 11/16/2015
Data Release Frequency: No Update Planned

WESTCHESTER COUNTY:

Listing of Storage Tanks
A listing of aboveground storage tank sites located in Westchester County.

Date of Government Version: 12/11/2014
Date Data Arrived at EDR: 12/12/2014
Date Made Active in Reports: 01/13/2015
Number of Days to Update: 32

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 07/31/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

Listing of Storage Tanks
A listing of underground storage tank sites located in Westchester County.

Date of Government Version: 12/11/2014
Date Data Arrived at EDR: 12/12/2014
Date Made Active in Reports: 01/13/2015
Number of Days to Update: 32

Source: Westchester County Department of Health
Telephone: 914-813-5161
Last EDR Contact: 07/31/2015
Next Scheduled EDR Contact: 08/17/2015
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/18/2015
Next Scheduled EDR Contact: 08/31/2015
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 07/13/2015
Next Scheduled EDR Contact: 10/28/2015
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/24/2015
Date Made Active in Reports: 08/18/2015
Number of Days to Update: 25

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/20/2015
Next Scheduled EDR Contact: 11/02/2015
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/26/2015
Next Scheduled EDR Contact: 09/07/2015
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data
Hazardous waste manifest information.

Date of Government Version: 03/26/2015
Date Data Arrived at EDR: 06/03/2015
Date Made Active in Reports: 07/20/2015
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/20/2015
Next Scheduled EDR Contact: 11/02/2015
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 03/19/2015
Date Made Active in Reports: 04/07/2015
Number of Days to Update: 19

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/11/2015
Next Scheduled EDR Contact: 09/28/2015
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Telephone: 281-546-1505
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
Telephone: 800-823-6277
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Providers
Source: Department of Health
Telephone: 212-676-2444

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

WAPPINGER CREEK
MARKET STREET
WAPPINGERS FALLS, NY 12590

TARGET PROPERTY COORDINATES

Latitude (North):	41.5985 - 41˚ 35’ 54.60’’
Longitude (West):	73.9241 - 73˚ 55’ 26.76’’
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	589664.5
UTM Y (Meters):	4605545.5
Elevation:	1 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5939329 WAPPINGERS FALLS, NY
Version Date:	2013

EDR’s GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

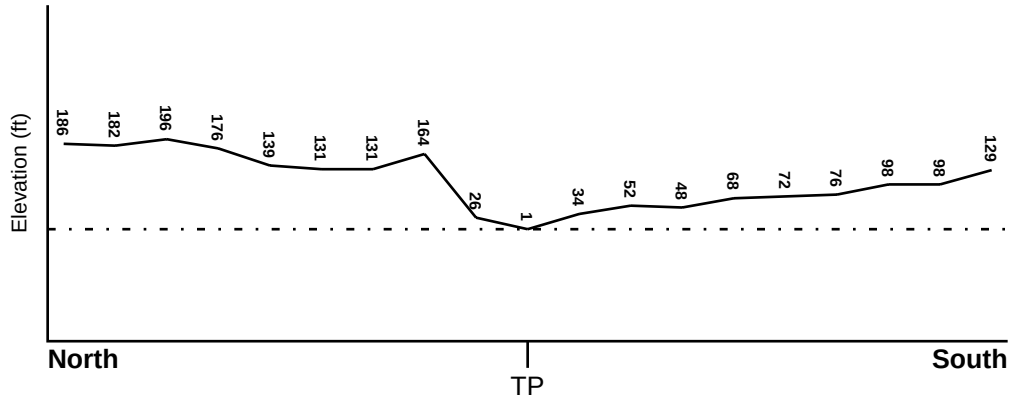
TOPOGRAPHIC INFORMATION

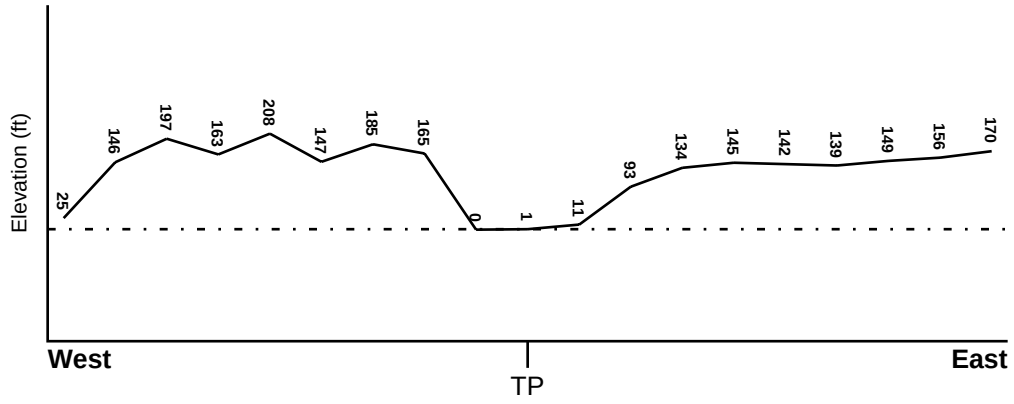
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 1 ft.

0 1/2 1 Miles

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County	FEMA Flood Electronic Data
DUTCHESS, NY	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	3602230001B - FEMA Q3 Flood data
Additional Panels in search area:	3611420020A - FEMA Q3 Flood data 3613870005A - FEMA Q3 Flood data 3613870010A - FEMA Q3 Flood data 3613870015A - FEMA Q3 Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
WAPPINGERS FALLS	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

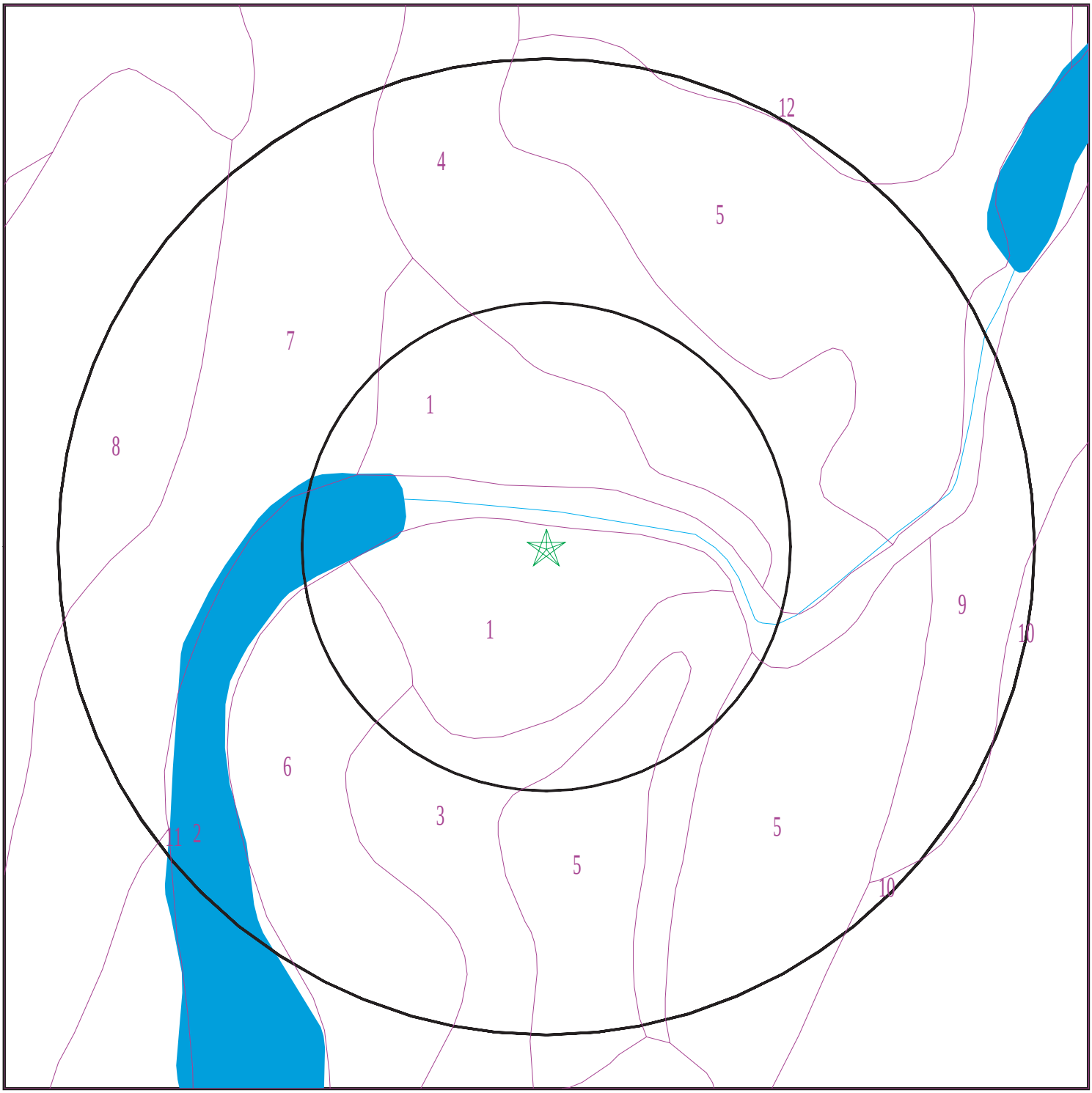
GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT		GEOLOGIC AGE IDENTIFICATION	
Era:	Paleozoic	Category:	Stratified Sequence
System:	Ordovicias		
Series:	Lower Ordovician and Cambrian carbonate rocks		
Code:	OC *(decoded above as Era, System & Series)*		

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4397871.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME: Wappinger Creek ADDRESS: Market Street Wappingers Falls NY 12590 LAT/LONG: 41.5985 / 73.9241	CLIENT: Weston Solutions, Inc. CONTACT: Scott Snyder INQUIRY #: 4397871.2s DATE: August 31, 2015 3:26 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Urban land

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	variable	Not reported	Not reported	Max: 1.4 Min: 0	Max: Min:

Soil Map ID: 2

Soil Component Name: Water

Soil Surface Texture: variable

Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Hoosic

Soil Surface Texture: gravelly loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 14	Max: 5.5 Min: 4.5
2	9 inches	24 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 14	Max: 5.5 Min: 4.5
3	24 inches	70 inches	extremely gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 141 Min: 141	Max: 6 Min: 4.5

Soil Map ID: 4

Soil Component Name: Hoosic

Soil Surface Texture: gravelly loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 14	Max: 5.5 Min: 4.5
2	9 inches	24 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 14	Max: 5.5 Min: 4.5
3	24 inches	70 inches	extremely gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 141 Min: 141	Max: 6 Min: 4.5

Soil Map ID: 5

Soil Component Name: Hoosic

Soil Surface Texture: gravelly loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 14	Max: 5.5 Min: 4.5
2	9 inches	24 inches	very gravelly sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 14	Max: 5.5 Min: 4.5
3	24 inches	70 inches	extremely gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Gravels, Clean gravels, Poorly Graded Gravel.	Max: 141 Min: 141	Max: 6 Min: 4.5

Soil Map ID: 6

Soil Component Name: Udorthents

Soil Surface Texture: gravelly loam

Hydrologic Group: Class A/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 137 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	3 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 141 Min: 0.42	Max: 7.3 Min: 4.5
2	3 inches	70 inches	very gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 42 Min: 0.42	Max: 8.4 Min: 4.5

Soil Map ID: 7

Soil Component Name: Farmington

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	7 inches	14 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 7.8 Min: 5.6
3	14 inches	18 inches	unweathered bedrock	Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

Soil Map ID: 8

Soil Component Name: Galway

Soil Surface Texture: gravelly loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 38 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 14 Min: 4	Max: 7.3 Min: 5.6
2	5 inches	29 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 7.8 Min: 5.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	29 inches	31 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 8.4 Min: 7.4
4	31 inches	35 inches	unweathered bedrock	Not reported	Not reported	Max: 0.01 Min: 0	Max: Min:

Soil Map ID: 9

Soil Component Name: Dutchess

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 77 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	7 inches	27 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	27 inches	85 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 14 Min: 4	Max: 6.5 Min: 5.1

Soil Map ID: 10

Soil Component Name: Dutchess

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 77 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5
2	7 inches	27 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 6 Min: 4.5

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
3	27 inches	85 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 14 Min: 4	Max: 6.5 Min: 5.1

Soil Map ID: 11

Soil Component Name: Medisaprists

Soil Surface Texture: muck

Hydrologic Group: Class A/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	70 inches	muck	A-8	Highly organic soils, Peat.	Max: 141 Min: 1.4	Max: Min:

Soil Map ID: 12

Soil Component Name: Knickerbocker

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 4.5
2	9 inches	18 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 6 Min: 4.5
3	18 inches	29 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 4.5
4	29 inches	72 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6 Min: 4.5

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS40000845558	1/2 - 1 Mile NNE
A2	USGS40000845559	1/2 - 1 Mile NNE
A3	USGS40000845557	1/2 - 1 Mile NNE
A4	USGS40000845569	1/2 - 1 Mile NNE
A5	USGS40000845570	1/2 - 1 Mile NNE
A6	USGS40000845568	1/2 - 1 Mile NNE
A7	USGS40000845567	1/2 - 1 Mile NNE
B9	USGS40000845602	1/2 - 1 Mile NNE
B10	USGS40000845603	1/2 - 1 Mile NNE
A11	USGS40000845591	1/2 - 1 Mile NNE
A12	USGS40000845592	1/2 - 1 Mile NNE
C16	USGS40000845596	1/2 - 1 Mile NNE
C17	USGS40000845601	1/2 - 1 Mile NNE
18	USGS40000845495	1/2 - 1 Mile WNW
24	USGS40000845519	1/2 - 1 Mile WNW
E25	USGS40000845536	1/2 - 1 Mile NE
26	USGS40000845287	1/2 - 1 Mile SE
E27	USGS40000845551	1/2 - 1 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
8	NY0001592	1/2 - 1 Mile ESE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
C13	NYWS004293	1/2 - 1 Mile NNE
C14	NYWS004294	1/2 - 1 Mile NNE
C15	NYWS004295	1/2 - 1 Mile NNE
19	NYWS10000004404	1/2 - 1 Mile SSW
D20	NYWS004302	1/2 - 1 Mile ENE
D21	NYWS004299	1/2 - 1 Mile ENE
D22	NYWS004300	1/2 - 1 Mile ENE
D23	NYWS004301	1/2 - 1 Mile ENE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

PHYSICAL SETTING SOURCE MAP - 4397871.2s

County Boundary
Major Roads
Contour Lines
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME: Wappinger Creek ADDRESS: Market Street Wappingers Falls NY 12590 LAT/LONG: 41.5985 / 73.9241	CLIENT: Weston Solutions, Inc. CONTACT: Scott Snyder INQUIRY #: 4397871.2s DATE: August 31, 2015 3:26 pm

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Map ID Direction Distance Elevation	Database	EDR ID Number
A1 **NNE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000845558**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413624073550901		
Monloc name:	DU1318		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6067603
Longitude:	-73.918748	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	120
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		
Aquifer type:	Not Reported		
Construction date:	19590902	Welldepth:	94
Welldepth units:	ft	Wellholedepth:	95
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A2 **NNE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000845559**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413624073550902		
Monloc name:	DU1319		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6067603
Longitude:	-73.918748	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	120
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		

Aquifer type:	Not Reported		
Construction date:	19790816	Welldepth:	93
Welldepth units:	ft	Wellholedepth:	94
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A3
NNE **FED USGS** **USGS40000845557**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413624073550701		
Monloc name:	DU 760		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6067603
Longitude:	-73.9181924	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	120
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	108
Welldepth units:	ft	Wellholedepth:	108
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A4
NNE **FED USGS** **USGS40000845569**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413625073550702		
Monloc name:	DU 85		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.607038
Longitude:	-73.9181924	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	150.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		

Aquifer type:	Not Reported		
Construction date:	1938	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	100
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A5
NNE **FED USGS** **USGS40000845570**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413625073550703		
Monloc name:	DU1322		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.607038
Longitude:	-73.9181924	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	140
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		
Aquifer type:	Not Reported		
Construction date:	19820913	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

A6
NNE **FED USGS** **USGS40000845568**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413625073550701		
Monloc name:	DU 84		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.607038
Longitude:	-73.9181924	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	150.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		

Aquifer type:	Not Reported		
Construction date:	1938	Welldepth:	100
Welldepth units:	ft	Wellholedepth:	100
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A7
NNE **FED USGS** **USGS40000845567**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413625073550601		
Monloc name:	DU3214		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.607038
Longitude:	-73.9179146	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		
Aquifer type:	Not Reported		
Construction date:	1984	Welldepth:	105
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

8
ESE **FRDS PWS** **NY0001592**
1/2 - 1 Mile
Higher

PWS ID:	NY0001592		
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	PATTERSONVILLE MOBILE HOME #1 AMSTERDAM, NY 12010		
Addressee / Facility:	System Owner/Responsible Party SHAH AHMED S PATTERSONVILLE MOBILE PARK INC R.D.#3, RT. 376 WAPPINGER FALLS, NY 12590		
Facility Latitude:	41 35 47	Facility Longitude:	073 54 41

Facility Latitude:	42 54 07	Facility Longitude:	074 06 02
City Served:	FLORIDA (T)		
Treatment Class	Not Reported	Population:	Not Reported

Violations information not reported.

B9
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000845602**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413629073551400		
Monloc name:	DU3199		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6081491
Longitude:	-73.9201369	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

B10
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000845603**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413629073551401		
Monloc name:	DU1052		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6081491
Longitude:	-73.9201369	Sourcemap scale:	24000
Horiz Acc measure:	5	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

A11
NNE **FED USGS** **USGS40000845591**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413627073550701		
Monloc name:	DU1320		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6075936
Longitude:	-73.9181924	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	145
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		
Aquifer type:	Not Reported		
Construction date:	19651101	Welldepth:	102
Welldepth units:	ft	Wellholedepth:	102
Wellholedepth units:	ft		

Ground-water levels, Number of Measurements: 0

A12
NNE **FED USGS** **USGS40000845592**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413627073550702		
Monloc name:	DU1321		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6075936
Longitude:	-73.9181924	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refsys:	Not Reported	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		

Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

C13
NNE
1/2 - 1 Mile
Higher

NY WELLS **NYWS004293**

Well Id:	NY1302783	System name:	WAPPINGERS FALLS VILLAGE
System Id:	001	Well name:	WELL 3
Type:	Well	Active?:	Active
County:	DUTCHESS COUNTY	Latitude:	413628 000
Longitude:	735505 000	Slec_type_:	AC
Agency:	WAPPINGERS FALLS VILLAGE MAYOR AND BOARD		
Address:	7 SPRING STREET		
City/State/Zip:	WAPINGERS FALLS NY 12590		
Phone:	Not Reported		

C14
NNE
1/2 - 1 Mile
Higher

NY WELLS **NYWS004294**

Well Id:	NY1302783	System name:	WAPPINGERS FALLS VILLAGE
System Id:	003	Well name:	WELL #5 HIGH IRON AND MANGANESE
Type:	Well	Active?:	Active
County:	DUTCHESS COUNTY	Latitude:	413628 000
Longitude:	735505 000	Slec_type_:	AC
Agency:	WAPPINGERS FALLS VILLAGE MAYOR AND BOARD		
Address:	7 SPRING STREET		
City/State/Zip:	WAPINGERS FALLS NY 12590		
Phone:	Not Reported		

C15
NNE
1/2 - 1 Mile
Higher

NY WELLS **NYWS004295**

Well Id:	NY1302783	System name:	WAPPINGERS FALLS VILLAGE
System Id:	002	Well name:	WELL 4: 12", 101', 10' SCREEN #90 SLOT
Type:	Well	Active?:	Active
County:	DUTCHESS COUNTY	Latitude:	413628 000
Longitude:	735505 000	Slec_type_:	AC
Agency:	WAPPINGERS FALLS VILLAGE MAYOR AND BOARD		
Address:	7 SPRING STREET		
City/State/Zip:	WAPINGERS FALLS NY 12590		
Phone:	Not Reported		

C16
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000845596**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413628073550701		
Monloc name:	DU1323		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6078714
Longitude:	-73.9181924	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	140
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		
Aquifer type:	Not Reported		
Construction date:	1982	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

C17
NNE **FED USGS** **USGS40000845601**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413629073550801		
Monloc name:	DU1324		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6081491
Longitude:	-73.9184702	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	140
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		
Aquifer type:	Not Reported		
Construction date:	19820908	Welldepth:	91.25
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

Map ID Direction Distance Elevation	Database	EDR ID Number
18 **WNW** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000845495**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413609073561301		
Monloc name:	DU 457		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6023158
Longitude:	-73.9373597	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	120.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	New York and New England carbonate-rock aquifers		
Formation type:	Stockbridge Group		
Aquifer type:	Not Reported		
Construction date:	1900	Welldepth:	490
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

---

19 **SSW** **1/2 - 1 Mile** **Higher**	**NY WELLS**	**NYWS10000004404**

Fid:	4404
County:	DUTCHESS
Town:	Wappinger
Dec well n:	DU7590
Foil loc:	HAMILTON RD
Latitude:	41 35 19.1
Longitude:	73 55 51.1
Well depth:	120
Rock depth:	9
Gw depth:	20
Cased dept:	19
Scr:	N
Yt avgdisc:	13.5
Regnumber:	NYRD10063
Ddlat:	41.588639
Ddlong:	-73.930861
Site id:	NYWS10000004404

Map ID Direction Distance Elevation	Database	EDR ID Number
D20 **ENE** **1/2 - 1 Mile** **Higher**	**NY WELLS**	**NYWS004302**

Well Id:	NY1303230	System name:	WOODHILL GREEN
System Id:	003	Well name:	WELL #5 (NEAR NEW HACKENSACK RD, NORTH)
Type:	Well	Active?:	Active
County:	DUTCHESS COUNTY	Latitude:	413617 000
Longitude:	735440 000	Slec_type_:	AC
Agency:	WOODHILL GREEN HOA		
Address:	c/o Thomas Management 1020 Main Street		
City/State/Zip:	FISHKILL NY 10524		
Phone:	845-896-4424		

D21 **ENE** **1/2 - 1 Mile** **Higher**	**NY WELLS**	**NYWS004299**

Well Id:	NY1303230	System name:	WOODHILL GREEN
System Id:	001	Well name:	WELL #3 (IN BLGG. NEAR TENNIS COURT,WEST
Type:	Well	Active?:	Active
County:	DUTCHESS COUNTY	Latitude:	413617 000
Longitude:	735440 000	Slec_type_:	AC
Agency:	WOODHILL GREEN HOA		
Address:	c/o Thomas Management 1020 Main Street		
City/State/Zip:	FISHKILL NY 10524		
Phone:	845-896-4424		

D22 **ENE** **1/2 - 1 Mile** **Higher**	**NY WELLS**	**NYWS004300**

Well Id:	NY1303230	System name:	WOODHILL GREEN
System Id:	002	Well name:	WELL #4 (IN BLGG. NEAR TENNIS COURT,EAST
Type:	Well	Active?:	Active
County:	DUTCHESS COUNTY	Latitude:	413617 000
Longitude:	735440 000	Slec_type_:	AC
Agency:	WOODHILL GREEN HOA		
Address:	c/o Thomas Management 1020 Main Street		
City/State/Zip:	FISHKILL NY 10524		
Phone:	845-896-4424		

D23 **ENE** **1/2 - 1 Mile** **Higher**	**NY WELLS**	**NYWS004301**

Well Id:	NY1303230	System name:	WOODHILL GREEN
System Id:	004	Well name:	WELL #6 (NEAR NEW HACKENSACK RD, SOUTH)
Type:	Well	Active?:	Active
County:	DUTCHESS COUNTY	Latitude:	413617 000
Longitude:	735440 000	Slec_type_:	AC
Agency:	WOODHILL GREEN HOA		
Address:	c/o Thomas Management 1020 Main Street		
City/State/Zip:	FISHKILL NY 10524		
Phone:	845-896-4424		

24
WNW
1/2 - 1 Mile
Higher

FED USGS **USGS40000845519**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413616073561301		
Monloc name:	DU 684		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	02020008	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6048158
Longitude:	-73.937082	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	120.00
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	New York and New England carbonate-rock aquifers		
Formation type:	Stockbridge Group		
Aquifer type:	Not Reported		
Construction date:	1900	Welldepth:	318
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

E25
NE
1/2 - 1 Mile
Higher

FED USGS **USGS40000845536**

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413620073543701		
Monloc name:	DU1702		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6056491
Longitude:	-73.9098588	Sourcemap scale:	24000

Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	170
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	296
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

26
SE **FED USGS** **USGS40000845287**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413515073545201		
Monloc name:	DU1325		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.5875936
Longitude:	-73.9140256	Sourcemap scale:	24000
Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	170
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

E27
NE **FED USGS** **USGS40000845551**
1/2 - 1 Mile
Higher

Org. Identifier:	USGS-NY		
Formal name:	USGS New York Water Science Center		
Monloc Identifier:	USGS-413622073543301		
Monloc name:	DU1527		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	Not Reported	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	41.6062047
Longitude:	-73.9087476	Sourcemap scale:	24000

Horiz Acc measure:	10	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	170
Vert measure units:	feet	Vertacc measure val:	5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic map		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Not Reported		
Formation type:	Bedrock		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	127
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

AREA RADON INFORMATION

State Database: NY Radon

Radon Test Results

County	Town	Num Tests	Avg Result	Geo Mean	Max Result
DUTCHESS	FISHKILL	129	4.88	2.87	31.3
DUTCHESS	HYDE PARK	215	6.22	4.29	33.3
DUTCHESS	LA GRANGE	231	8.59	4.84	135.2
DUTCHESS	MILAN	18	7.69	5.14	29.1
DUTCHESS	NORTHEAST	16	9.1	4.91	30.2
DUTCHESS	PAWLING	67	4.58	2.95	27.8
DUTCHESS	PINE PLAINS	40	16.05	8.57	69.1
DUTCHESS	PLEASANT VALLEY	131	9.07	5.59	36.6
DUTCHESS	POUGHKEEPSIE	1,078	5.51	3.42	96.4
DUTCHESS	RED HOOK	133	7.57	4.03	120.9
DUTCHESS	RHINEBECK	123	6.55	4.38	34.9
DUTCHESS	STANFORD	56	8.29	4.86	57.5
DUTCHESS	UNION VALE	57	10.31	6.06	62.6
DUTCHESS	WAPPINGER	121	4.04	2.73	18.7
DUTCHESS	WASHINGTON	66	9.16	4.93	56.1
DUTCHESS	AMENIA	25	10.25	6.26	44.8
DUTCHESS	BEACON	56	4.65	2.75	21.2
DUTCHESS	BEEKMAN	95	8.97	5.37	86.2
DUTCHESS	CLINTON	65	9.26	5.55	66.4
DUTCHESS	DOVER	34	10.44	4.98	49.9
DUTCHESS	E. FISHKILL	345	7.61	4.62	71.6

Federal EPA Radon Zone for DUTCHESS County: 1

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for DUTCHESS COUNTY, NY

Number of sites tested: 186

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.690 pCi/L	80%	20%	0%
Basement	3.630 pCi/L	56%	38%	6%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Freshwater Wetlands
Source: Department of Environmental Conservation
Telephone: 518-402-8961

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database
Department of Environmental Conservation
Telephone: 518-402-8072
These files contain records, in the database, of wells that have been drilled.

RADON

State Database: NY Radon
Source: Department of Health
Telephone: 518-402-7556
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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REFERENCE 11

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

This Sample Data Package includes data of all analysis requested For each particular Case/SDG.

The Sample Data Package will include:

SDG Cover Page
Traffic Report/Chain of Custody
Sample Log-In Sheet (DC-1)
CSF Inventory Sheet (DC-2)
SDG Narrative

The following analysis are included in this package, if applicable:

ICP-AES Data
ICP-MS Data
Mercury Data
Cyanide Data
Miscellaneous Data

SDG Cover Sheet, TR/COC, DC-1, DC-2

SDG COVER PAGE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: N/A SDG No.: MBC7F4

SOW No.: ISM02.2

Analysis Method

EPA Sample No.	Lab Sample ID	ICP-AES	ICP-MS	Mercury	Cyanide
MBC7F4	QK12004-001	X		X	
MBC7F5	QK12004-002	X		X	
MBC7F6	QK12004-003	X		X	
MBC7F7	QK12004-004	X		X	
MBC7F8	QK12004-005	X		X	
MBC7F9	QK12004-006	X		X	
MBC7G0	QK12004-007	X		X	
MBC7G1	QK12004-008	X		X	
MBC7G2	QK12004-009	X		X	
MBC7G3	QK12004-010	X		X	
MBC7G4	QK12004-011	X		X	
MBC7G5	QK12004-012	X		X	
MBC7G6	QK12004-013	X		X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy Complete SDG File and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Robert Name: Robert Zhu

Date: 12/3/2015 Title: Technical Director

Contract Laboratory Program

Sample Delivery Group (SDG) Definition Sheet

SDG Number	MBC7F4	Case Number	45717	Contract Number	EPW14035
Lab Code	EQI	SDG Turnaround	7 days	Delivery CLIN(s)	n/a

First Sample Received in SDG	MBC7F4	Last Sample Received in SDG	MBC7G6
First Sample Receipt Date	11/12/2015	Last Sample Receipt Date	11/14/2015

USEPA Sample Numbers in SDG (Listed in Numerical Order)

CLP Sample ID		Sample Type	Requested Analytical CLIN(s)/SubCLIN(s)	Solicitation Number	MA Number(s)
1	MBC7F4	Water	ICP AES, Hg	N/A	N/A
2	MBC7F5	Water	ICP AES, Hg	N/A	N/A
3	MBC7F6	Water	ICP AES, Hg	N/A	N/A
4	MBC7F7	Water	ICP AES, Hg	N/A	N/A
5	MBC7F8	Water	ICP AES, Hg	N/A	N/A
6	MBC7F9	Water	ICP AES, Hg	N/A	N/A
7	MBC7G0	Water	ICP AES, Hg	N/A	N/A
8	MBC7G1	Water	ICP AES, Hg	N/A	N/A
9	MBC7G2	Water	ICP AES, Hg	N/A	N/A
10	MBC7G3	Water	ICP AES, Hg	N/A	N/A
11	MBC7G4	Water	ICP AES, Hg	N/A	N/A
12	MBC7G5	Water	ICP AES, Hg	N/A	N/A
13	MBC7G6	Water	ICP AES, Hg	N/A	N/A
14					
15					
16					
17					
18					
19				11/16/15	
20					

Note: *There are a maximum of 20* ***field*** *samples (excluding PE samples) in an SDG. Attach TR/COC Records to this form in alphanumeric order (the order listed above on this form).*

Signature _____ Date 11/16/15

MBC7F4

USEPA CLP COC (LAB COPY)

Date Shipped: 11/11/2015
Carrier Name: FedEx
Airbill No: 8088 5684 5233

CHAIN OF CUSTODY RECORD

Case #: 45717

No: 2-111115-084257-0007

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-RIN03	MBC7F4	DI Water/ Region 2 SAT	Grab	TAL(7)	1413 (HNO3 to pH<2) (1)	N/A	11/10/2015 14:00	
0269-SW01	MBC7F5	Surface Water/ Region 2 SAT	Grab	TAL(7)	1118 (HNO3 to pH<2) (3)	0269-SW01	11/10/2015 11:11	
0269-SW02	MBC7F6	Surface Water/ Region 2 SAT	Grab	TAL(7)	1121 (HNO3 to pH<2) (1)	0269-SW02	11/10/2015 11:30	
0269-SW03	MBC7F7	Surface Water/ Region 2 SAT	Grab	TAL(7)	1124 (HNO3 to pH<2) (1)	0269-SW03	11/10/2015 11:45	
0269-SW04	MBC7F8	Surface Water/ Region 2 SAT	Grab	TAL(7)	1127 (HNO3 to pH<2) (1)	0269-SW04	11/10/2015 12:00	
0269-SW05	MBC7F9	Surface Water/ Region 2 SAT	Grab	TAL(7)	1130 (HNO3 to pH<2) (1)	0269-SW05	11/10/2015 12:12	
0269-SW06	MBC7G0	Surface Water/ Region 2 SAT	Grab	TAL(7)	1133 (HNO3 to pH<2) (1)	0269-SW06	11/10/2015 12:37	
0269-SW07	MBC7G1	Surface Water/ Region 2 SAT	Grab	TAL(7)	1136 (HNO3 to pH<2) (1)	0269-SW07	11/10/2015 14:15	
0269-SW08	MBC7G2	Surface Water/ Region 2 SAT	Grab	TAL(7)	1139 (HNO3 to pH<2) (1)	0269-SW08	11/10/2015 14:25	

Sample(s) to be used for Lab QC: 0269-SW01 Tag 1118 - Special Instructions: MS/MSD: 0269-SW01 CLP No.:MBC7F5	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #
Analysis Key: TAL=TAL Inorganics (incl. Hg)	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sampling	Denise Green / WESTON	11/11/15 2000	FEDEX	11/11/15 2000	
			[signature]	11-12-15/0800	OK

T=2.8°

MBC7C9, MBC7F4

USEPA CLP COC (LAB COPY)

Date Shipped: 11/13/2015
Carrier Name: FedEx
Airbill No: 8044 6775 2027

CHAIN OF CUSTODY RECORD

Case #: 45717

EPW14035

No: 2-111315-131828-0021

Lab: Shealy Environmental Services
Lab Contact: Robert Zhu
Lab Phone: 803-791-9700

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
0269-SED13-0-6	MBC7B1	Sediment/ Region 2 SAT	Grab	TAL(7)	1306 (4 C) (1)	0269-SED13	11/13/2015 11:45	
0269-SED13-12-24	MBC7B2	Sediment/ Region 2 SAT	Grab	TAL(7)	1314 (4 C) (1)	0269-SED13	11/13/2015 12:05	
0269-SED13-6-12	MBC7B3	Sediment/ Region 2 SAT	Grab	TAL(7)	1310 (4 C) (1)	0269-SED13	11/13/2015 11:55	
0269-SED14-0-6	MBC7B4	Sediment/ Region 2 SAT	Grab	TAL(7)	1318 (4 C) (1)	0269-SED14	11/13/2015 12:20	
0269-SED14-6-12	MBC7B6	Sediment/ Region 2 SAT	Grab	TAL(7)	1322 (4 C) (1)	0269-SED14	11/13/2015 12:30	
0269-SW09	MBC7G3	Surface Water/ Region 2 SAT	Grab	TAL(7)	1142 (HNO3 to pH<2) (1)	0269-SW09	11/13/2015 08:35	
0269-SW10	MBC7G4	Surface Water/ Region 2 SAT	Grab	TAL(7)	1145 (HNO3 to pH<2) (1)	0269-SW10	11/13/2015 09:00	
0269-SW11	MBC7G5	Surface Water/ Region 2 SAT	Grab	TAL(7)	1148 (HNO3 to pH<2) (1)	0269-SW11	11/13/2015 09:15	
0269-SW12	MBC7G6	Surface Water/ Region 2 SAT	Grab	TAL(7)	1151 (HNO3 to pH<2) (1)	0269-SW11	11/13/2015 09:20	
0269-SED22-12-24	MBC7H8	Sediment/ Region 2 SAT	Grab	TAL(7)	1454 (4 C) (1)	0269-SED13	11/13/2015 12:15	

Special Instructions:	**Shipment for Case Complete? N**
	Samples Transferred From Chain of Custody #

Analysis Key: TAL=TAL Inorganics (incl. Hg)

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Sampling	Denise Green / WESTON	11/13/15 1530	FEDEX	11/13/15 1530	
			Lacey Dowdy	11/14/15 0845	OK

T= 1.6°C

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Sheely Environmental Services		Page of
Received By (Print Name) Kelly W Price		Log-in Date
Received By (Signature) Kelly W Price		
Case Number 45717	SDG No. MBC7F4	MA No.

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8088 5684 5233
6. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	2.8°
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11-12-15
12. Time Received	0800

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC7F4	2.0	NA	QK12004-001	OK
2	MBC7F5	2.0		-002	
3	MBC7F6	2.0		-003	
4	MBC7F7	2.0		-004	
5	MBC7F8	2.0		-005	
6	MBC7F9	2.0		-006	
7	MBC7G0	2.0		-007	
8	MBC7G1	2.0		-008	
9	MBC7G2	2.0		-009	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

KWP 11-12-15

* Contact SMO and attach record of resolution

Reviewed By	Logbook No.
Date	Logbook Page No.

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy Environmental		Page 1 of 1
Received By (Print Name) Lacey Goulding		Log-in Date 11/14/15
Received By (Signature) Lacey Goulding		
Case Number 45717	SDG No. MBC7C9, MBC7F4	MA No.

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8044 6775 2027
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	1.6 °C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11/14/15
12. Time Received	0845

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC7B1	NA	NA	QK13013-003	OK
2	MBC7B2	↓	↓	↓ -004	↓
3	MBC7B3	↓	↓	↓ -005	↓
4	MBC7B4	↓	↓	↓ -006	↓
5	MBC7B6	↓	↓	↓ -007	↓
6	MBC7G3	1.5	↓	QK12004-010	↓
7	MBC7G4	↓	↓	↓ -011	↓
8	MBC7G5	↓	↓	↓ -012	↓
9	MBC7G6	↓	↓	↓ -013	↓
10	MBC7H8	NA	↓	QK13013-008	↓
11					
12					
13				11/14/15	
14				LGG	
15					
16					
17					
18					
19					
20					
21					
22					

* Contact SMO and attach record of resolution

Reviewed By MMN	Logbook No. MK
Date 11/16/15	Logbook Page No. 100

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LAB NAME Shealy Environmental Services, Inc.

LAB CODE EQI

CONTRACT NO. EPW-14-035

CASE NO. 45717 SDG NO. MBC7F4

MA NO. M/A

SOW NO. ISM02.2

All documents delivered in the Complete SDG File must be original documents where possible. (Reference - Exhibit B Section 2.4)

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
1.	SDG Cover Page	1	4		
2.	Traffic Report/Chain of Custody Record(s)	5	6		
3.	Sample Log-In Sheet (DC-1)	7	8		
4.	CSF Inventory Sheet (DC-2)	9	12		
5.	SDG Narrative	13	15		
Inorganic Analysis					
ICP-AES					
6.	Inorganic Analysis Data Sheet (Form 1-IN)	16	31	X	
7.	Initial and Continuing Calibration Verification (Form 2-IN)	32	36	X	
8.	Blanks (Form 3-IN)	37	39	X	
9.	ICP Interference Check Sample (Form 4-IN)	40	41	X	
10.	Matrix Spike Sample Recovery (Form 5A-IN)	42	43	X	
11.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
12.	Duplicates (Form 6-IN)	44	45	X	
13.	Laboratory Control Sample (Form 7-IN)	46	47	X	
14.	ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	48	49	X	
15.	Method Detection Limit (Form 9-IN)	50	50	X	
16.	ICP-AES Interelement Correction Factors (Form 10A-IN)	51	51	X	
17.	ICP-AES Interelement Correction Factors (Form 10B-IN)	52	55	X	
18.	Analysis Log (Form 12-IN)	56	61	X	
19.	Initial Calibration (Form 15-IN)	62	69	X	

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

		PAGE NOs.		CHECK	
		FROM	TO	LAB	REGION
20.	Initial Calibration Summary (Form 16-IN)	70	71	X	
21.	ICP-AES Raw Data	72	578	X	
22.	ICP-AES Preparation Log Books, Preparation records, Analysis records, and PE Instructions	579	601	X	
ICP-MS					
23.	Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
24.	Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
25.	Blanks (Form 3-IN)	N/A	N/A	X	
26.	ICP Interference Check Sample (Form 4-IN)	N/A	N/A	X	
27.	Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
28.	Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
29.	Duplicates (Form 6-IN)	N/A	N/A	X	
30.	Laboratory Control Sample (Form 7-IN)	N/A	N/A	X	
31.	ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)	N/A	N/A	X	
32.	Method Detection Limit (Form 9-IN)	N/A	N/A	X	
33.	ICP-MS Internal Standard Association (Form 11-IN)	N/A	N/A	X	
34.	Analysis Log (Form 12-IN)	N/A	N/A	X	
35.	ICP-MS Tune (Form 13-IN)	N/A	N/A	X	
36.	ICP-MS Internal Standards Relative Intensity Summary (Form 14-IN)	N/A	N/A	X	
37.	Initial Calibration (Form 15-IN)	N/A	N/A	X	
38.	Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
39.	ICP-MS Raw Data	N/A	N/A	X	
40.	ICP-MS Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Mercury		N/A	N/A	X	
41.	Inorganic Analysis Data Sheet (Form 1-IN)	602	618	X	
42.	Initial and Continuing Calibration Verification (Form 2-IN)	619	622	X	
43.	Blanks (Form 3-IN)	623	625	X	
44.	Matrix Spike Sample Recovery (Form 5A-IN)	626	626	X	
45.	Duplicates (Form 6-IN)	627	627	X	
46.	Method Detection Limit (Form 9-IN)	628	628	X	
47.	Analysis Log (Form 12-IN)	629	631	X	
48.	Initial Calibration (Form 15-IN)	632	633	X	

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

49. Initial Calibration Summary (Form 16-IN)	634	634	X	
50. Mercury Raw Data	635	638	X	
51. Mercury Preparation Log Books, Preparation records, Analysis records, and PE Instructions	639	646	X	
Cyanide	N/A	N/A	X	
52. Inorganic Analysis Data Sheet (Form 1-IN)	N/A	N/A	X	
53. Initial and Continuing Calibration Verification (Form 2-IN)	N/A	N/A	X	
54. Blanks (Form 3-IN)	N/A	N/A	X	
55. Matrix Spike Sample Recovery (Form 5A-IN)	N/A	N/A	X	
56. Post-Digestion/Distillation Spike Sample Recovery (Form 5B-IN)	N/A	N/A	X	
57. Duplicates (Form 6-IN)	N/A	N/A	X	
58. Method Detection Limit (Form 9-IN)	N/A	N/A	X	
59. Analysis Log (Form 12-IN)	N/A	N/A	X	
60. Initial Calibration (Form 15-IN)	N/A	N/A	X	
61. Initial Calibration Summary (Form 16-IN)	N/A	N/A	X	
62. Cyanide Raw Data	N/A	N/A	X	
63. Cyanide Preparation Log Books, Preparation records, Analysis records, and PE Instructions	N/A	N/A	X	
Additional	647	654	X	
64. Percent Solids Determination Log	N/A	N/A	X	
65. EPA Shipping/Receiving Documents	648	649		
Airbill (No. of Shipments 2)	648	649	X	
Sample Tags	N/A	N/A		
Sample Log-In Sheet (Lab)	650	651	X	
66. Misc. Shipping/Receiving Records (list all individual records) Communication Logs	N/A	N/A		
67. Internal Lab Sample Transfer Records & Tracking Sheets (describe or list)	652	653	X	
68. Other Records (describe or list)				
Communication Logs	654	654		
Hazard Warning				

FORM DC-2
FULL INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

69. Comments:

Completed by:
(CLP Lab)

(Signature)	(Print Name & Title)	(Date)
	Robert Zhu, Technical Director	12/03/2015

Audited by:
(EPA)

(Signature)	(Print Name & Title)	(Date)

Narrative

Shealy Environmental Services, Inc.

SDG Narrative
Date: 11/27/2015
Case 45717
SDG MBC7F4
SOW ISM02.2
Contract Number: EPW14035

ICP-AES Thermo Sci ICAP 7600 Software: iTEVA Version: 2.8.0.96 Operating System:Windows XP Professional Version: 5.1.2600 **MERCURY** Leeman Labs Hydra AA Software: WinHg Runner 1.7 Version: Rev 0.12 Operating System: Windows XP Professional Version: 5.1.2600	Water sample: Final concentration (ug/L) = C * DF Soil sample: Final concentration (mg/Kg) = $\frac{C * V * DF}{W * S}$ Where, C = the instrument readout in ug/L V = final sample volume in liter W = the wet sample weight (g) S = %solids/100 DF = Dilution Factor

Sample Receiving

The thirteen (13) water samples in this SDG were received in sealed shipping containers on November 12, and 14, 2015 with temperatures of 2.8˚C and 1.6˚C

Target Analyte

Mercury is required for this SDG. The target analytes for ICP-AES are listed below:

Target Analytes	ICP-AES
Aluminum	Yes
Antimony	Yes
Arsenic	Yes
Barium	Yes
Beryllium	Yes
Cadmium	Yes
Calcium	Yes
Chromium	Yes
Cobalt	Yes
Copper	Yes
Iron	Yes
Lead	Yes
Magnesium	Yes
Manganese	Yes
Nickel	Yes
Potassium	Yes
Selenium	Yes
Silver	Yes
Sodium	Yes
Thallium	Yes
Vanadium	Yes

Zinc	Yes

ICP-AES

IEC factors and background corrections were applied during the ICP-AES analyses. Raw data was not generated prior to the application of the background corrections.

,

Mercury

ICP-AES Metals

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
ICP Interference Check Sample (Form 4-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Post Digestion/Distillation Spike Sample Recovery (Form 5B-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
ICP-AES and ICP-MS Serial Dilutions (Form 8-IN)
Method Detection Limit (Form 9-IN)
ICP-AES Interelement Correction Factors (Form 10A-IN)
ICP-AES Interelement Correction Factors (Form 10B-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
Initial Calibration Summary (Form 16-IN)
ICP-AES Raw Data
ICP-AES Preparation Log Books, Preparation Records, Analysis Records

ICP-AES
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In Contract: 45717

Lab Code: EQI Case No: 45717 MA No.: SDG No: QK12004

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBC7F4	QK12004-001	X			
MBC7F5	QK12004-002	X			
MBC7F5D	QK12004-002DU	X			
MBC7F5S	QK12004-002MS	X			
MBC7F6	QK12004-003	X			
MBC7F7	QK12004-004	X			
MBC7F8	QK12004-005	X			
MBC7F9	QK12004-006	X			
MBC7G0	QK12004-007	X			
MBC7G1	QK12004-008	X			
MBC7G2	QK12004-009	X			
MBC7G3	QK12004-010	X			
MBC7G3D	QK12004-010DU	X			
MBC7G3S	QK12004-010MS	X			
MBC7G4	QK12004-011	X			
MBC7G5	QK12004-012	X			
MBC7G6	QK12004-013	X			

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Robert Name: Robert Zhu

Date: 12/3/2015 Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-001

% Solids: Date Received: 11/12/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/16/2015	17:09:15
7440-36-0	Antimony	60.0		U	11/16/2015	17:09:15
7440-38-2	Arsenic	10.0		U	11/16/2015	17:09:15
7440-39-3	Barium	200		U	11/16/2015	17:09:15
7440-41-7	Beryllium	5.0		U	11/16/2015	17:09:15
7440-43-9	Cadmium	5.0		U	11/16/2015	17:09:15
7440-70-2	Calcium	5000		U	11/16/2015	17:09:15
7440-47-3	Chromium	10.0		U	11/16/2015	17:09:15
7440-48-4	Cobalt	50.0		U	11/16/2015	17:09:15
7440-50-8	Copper	25.0		U	11/16/2015	17:09:15
7439-89-6	Iron	100		U	11/16/2015	17:09:15
7439-92-1	Lead	10.0		U	11/16/2015	17:09:15
7439-95-4	Magnesium	5000		U	11/16/2015	17:09:15
7439-96-5	Manganese	5.3		J	11/16/2015	17:09:15
7440-02-0	Nickel	40.0		U	11/16/2015	17:09:15
7440-09-7	Potassium	5000		U	11/16/2015	17:09:15
7782-49-2	Selenium	35.0		U	11/16/2015	17:09:15
7440-22-4	Silver	10.0		U	11/16/2015	17:09:15
7440-23-5	Sodium	5000		U	11/16/2015	17:09:15
7440-28-0	Thallium	25.0		U	11/16/2015	17:09:15
7440-62-2	Vanadium	50.0		U	11/16/2015	17:09:15
7440-66-6	Zinc	60.0		U	11/16/2015	17:09:15

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-002

% Solids: Date Received: 11/12/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/16/2015	17:14:04
7440-36-0	Antimony	60.0		U	11/16/2015	17:14:04
7440-38-2	Arsenic	10.0		U	11/16/2015	17:14:04
7440-39-3	Barium	22.3		J	11/16/2015	17:14:04
7440-41-7	Beryllium	0.11		J	11/16/2015	17:14:04
7440-43-9	Cadmium	5.0		U	11/16/2015	17:14:04
7440-70-2	Calcium	27400			11/16/2015	17:14:04
7440-47-3	Chromium	10.0		U	11/16/2015	17:14:04
7440-48-4	Cobalt	50.0		U	11/16/2015	17:14:04
7440-50-8	Copper	25.0		U	11/16/2015	17:14:04
7439-89-6	Iron	310			11/16/2015	17:14:04
7439-92-1	Lead	10.0		U	11/16/2015	17:14:04
7439-95-4	Magnesium	5740			11/16/2015	17:14:04
7439-96-5	Manganese	34.7			11/16/2015	17:14:04
7440-02-0	Nickel	40.0		U	11/16/2015	17:14:04
7440-09-7	Potassium	1850		J	11/16/2015	17:14:04
7782-49-2	Selenium	35.0		U	11/16/2015	17:14:04
7440-22-4	Silver	10.0		U	11/16/2015	17:14:04
7440-23-5	Sodium	23000			11/16/2015	17:14:04
7440-28-0	Thallium	25.0		U	11/16/2015	17:14:04
7440-62-2	Vanadium	50.0		U	11/16/2015	17:14:04
7440-66-6	Zinc	60.0		U	11/16/2015	17:14:04

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-003

% Solids: Date Received: 11/12/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	127	▪	J	11/16/2015	17:38:01
7440-36-0	Antimony	60.0	▪	U	11/16/2015	17:38:01
7440-38-2	Arsenic	10.0	▪	U	11/16/2015	17:38:01
7440-39-3	Barium	21.4	▪	J	11/16/2015	17:38:01
7440-41-7	Beryllium	0.096	▪	J	11/16/2015	17:38:01
7440-43-9	Cadmium	5.0	▪	U	11/16/2015	17:38:01
7440-70-2	Calcium	28400	▪		11/16/2015	17:38:01
7440-47-3	Chromium	10.0	▪	U	11/16/2015	17:38:01
7440-48-4	Cobalt	50.0	▪	U	11/16/2015	17:38:01
7440-50-8	Copper	25.0	▪	U	11/16/2015	17:38:01
7439-89-6	Iron	396	▪		11/16/2015	17:38:01
7439-92-1	Lead	10.0	▪	U	11/16/2015	17:38:01
7439-95-4	Magnesium	6310	▪		11/16/2015	17:38:01
7439-96-5	Manganese	44.8	▪		11/16/2015	17:38:01
7440-02-0	Nickel	40.0	▪	U	11/16/2015	17:38:01
7440-09-7	Potassium	1900	▪	J	11/16/2015	17:38:01
7782-49-2	Selenium	35.0	▪	U	11/16/2015	17:38:01
7440-22-4	Silver	10.0	▪	U	11/16/2015	17:38:01
7440-23-5	Sodium	23700	▪		11/16/2015	17:38:01
7440-28-0	Thallium	25.0	▪	U	11/16/2015	17:38:01
7440-62-2	Vanadium	50.0	▪	U	11/16/2015	17:38:01
7440-66-6	Zinc	60.0	▪	U	11/16/2015	17:38:01

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-004

% Solids: Date Received: 11/12/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	167		J	11/16/2015	17:42:50
7440-36-0	Antimony	60.0		U	11/16/2015	17:42:50
7440-38-2	Arsenic	10.0		U	11/16/2015	17:42:50
7440-39-3	Barium	22.0		J	11/16/2015	17:42:50
7440-41-7	Beryllium	0.12		J	11/16/2015	17:42:50
7440-43-9	Cadmium	5.0		U	11/16/2015	17:42:50
7440-70-2	Calcium	34100			11/16/2015	17:42:50
7440-47-3	Chromium	10.0		U	11/16/2015	17:42:50
7440-48-4	Cobalt	50.0		U	11/16/2015	17:42:50
7440-50-8	Copper	25.0		U	11/16/2015	17:42:50
7439-89-6	Iron	377			11/16/2015	17:42:50
7439-92-1	Lead	10.0		U	11/16/2015	17:42:50
7439-95-4	Magnesium	8440			11/16/2015	17:42:50
7439-96-5	Manganese	65.0			11/16/2015	17:42:50
7440-02-0	Nickel	40.0		U	11/16/2015	17:42:50
7440-09-7	Potassium	1990		J	11/16/2015	17:42:50
7782-49-2	Selenium	35.0		U	11/16/2015	17:42:50
7440-22-4	Silver	10.0		U	11/16/2015	17:42:50
7440-23-5	Sodium	28600			11/16/2015	17:42:50
7440-28-0	Thallium	25.0		U	11/16/2015	17:42:50
7440-62-2	Vanadium	50.0		U	11/16/2015	17:42:50
7440-66-6	Zinc	60.0		U	11/16/2015	17:42:50

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-005

% Solids: Date Received: 11/12/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/16/2015	17:47:38
7440-36-0	Antimony	60.0		U	11/16/2015	17:47:38
7440-38-2	Arsenic	10.0		U	11/16/2015	17:47:38
7440-39-3	Barium	19.4		J	11/16/2015	17:47:38
7440-41-7	Beryllium	0.097		J	11/16/2015	17:47:38
7440-43-9	Cadmium	5.0		U	11/16/2015	17:47:38
7440-70-2	Calcium	47000			11/16/2015	17:47:38
7440-47-3	Chromium	10.0		U	11/16/2015	17:47:38
7440-48-4	Cobalt	50.0		U	11/16/2015	17:47:38
7440-50-8	Copper	25.0		U	11/16/2015	17:47:38
7439-89-6	Iron	384			11/16/2015	17:47:38
7439-92-1	Lead	10.0		U	11/16/2015	17:47:38
7439-95-4	Magnesium	13400			11/16/2015	17:47:38
7439-96-5	Manganese	137			11/16/2015	17:47:38
7440-02-0	Nickel	40.0		U	11/16/2015	17:47:38
7440-09-7	Potassium	2060		J	11/16/2015	17:47:38
7782-49-2	Selenium	35.0		U	11/16/2015	17:47:38
7440-22-4	Silver	10.0		U	11/16/2015	17:47:38
7440-23-5	Sodium	39200			11/16/2015	17:47:38
7440-28-0	Thallium	25.0		U	11/16/2015	17:47:38
7440-62-2	Vanadium	50.0		U	11/16/2015	17:47:38
7440-66-6	Zinc	60.0		U	11/16/2015	17:47:38

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F9

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-006

% Solids: Date Received: 11/12/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/16/2015	17:52:26
7440-36-0	Antimony	60.0		U	11/16/2015	17:52:26
7440-38-2	Arsenic	10.0		U	11/16/2015	17:52:26
7440-39-3	Barium	200		U	11/16/2015	17:52:26
7440-41-7	Beryllium	0.092		J	11/16/2015	17:52:26
7440-43-9	Cadmium	5.0		U	11/16/2015	17:52:26
7440-70-2	Calcium	49200			11/16/2015	17:52:26
7440-47-3	Chromium	10.0		U	11/16/2015	17:52:26
7440-48-4	Cobalt	50.0		U	11/16/2015	17:52:26
7440-50-8	Copper	25.0		U	11/16/2015	17:52:26
7439-89-6	Iron	314			11/16/2015	17:52:26
7439-92-1	Lead	10.0		U	11/16/2015	17:52:26
7439-95-4	Magnesium	14100			11/16/2015	17:52:26
7439-96-5	Manganese	136			11/16/2015	17:52:26
7440-02-0	Nickel	40.0		U	11/16/2015	17:52:26
7440-09-7	Potassium	2110		J	11/16/2015	17:52:26
7782-49-2	Selenium	35.0		U	11/16/2015	17:52:26
7440-22-4	Silver	10.0		U	11/16/2015	17:52:26
7440-23-5	Sodium	41200			11/16/2015	17:52:26
7440-28-0	Thallium	25.0		U	11/16/2015	17:52:26
7440-62-2	Vanadium	50.0		U	11/16/2015	17:52:26
7440-66-6	Zinc	60.0		U	11/16/2015	17:52:26

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-007

% Solids: Date Received: 11/12/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/16/2015	17:57:13
7440-36-0	Antimony	60.0		U	11/16/2015	17:57:13
7440-38-2	Arsenic	10.0		U	11/16/2015	17:57:13
7440-39-3	Barium	200		U	11/16/2015	17:57:13
7440-41-7	Beryllium	0.089		J	11/16/2015	17:57:13
7440-43-9	Cadmium	5.0		U	11/16/2015	17:57:13
7440-70-2	Calcium	48000			11/16/2015	17:57:13
7440-47-3	Chromium	10.0		U	11/16/2015	17:57:13
7440-48-4	Cobalt	50.0		U	11/16/2015	17:57:13
7440-50-8	Copper	25.0		U	11/16/2015	17:57:13
7439-89-6	Iron	258			11/16/2015	17:57:13
7439-92-1	Lead	10.0		U	11/16/2015	17:57:13
7439-95-4	Magnesium	13800			11/16/2015	17:57:13
7439-96-5	Manganese	95.7			11/16/2015	17:57:13
7440-02-0	Nickel	40.0		U	11/16/2015	17:57:13
7440-09-7	Potassium	2050		J	11/16/2015	17:57:13
7782-49-2	Selenium	35.0		U	11/16/2015	17:57:13
7440-22-4	Silver	10.0		U	11/16/2015	17:57:13
7440-23-5	Sodium	38900			11/16/2015	17:57:13
7440-28-0	Thallium	25.0		U	11/16/2015	17:57:13
7440-62-2	Vanadium	50.0		U	11/16/2015	17:57:13
7440-66-6	Zinc	60.0		U	11/16/2015	17:57:13

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-008

% Solids: Date Received: 11/12/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/16/2015	18:02:00
7440-36-0	Antimony	60.0		U	11/16/2015	18:02:00
7440-38-2	Arsenic	10.0		U	11/16/2015	18:02:00
7440-39-3	Barium	200		U	11/16/2015	18:02:00
7440-41-7	Beryllium	0.12		J	11/16/2015	18:02:00
7440-43-9	Cadmium	5.0		U	11/16/2015	18:02:00
7440-70-2	Calcium	48200			11/16/2015	18:02:00
7440-47-3	Chromium	10.0		U	11/16/2015	18:02:00
7440-48-4	Cobalt	50.0		U	11/16/2015	18:02:00
7440-50-8	Copper	25.0		U	11/16/2015	18:02:00
7439-89-6	Iron	203			11/16/2015	18:02:00
7439-92-1	Lead	10.0		U	11/16/2015	18:02:00
7439-95-4	Magnesium	14000			11/16/2015	18:02:00
7439-96-5	Manganese	84.0			11/16/2015	18:02:00
7440-02-0	Nickel	40.0		U	11/16/2015	18:02:00
7440-09-7	Potassium	1980		J	11/16/2015	18:02:00
7782-49-2	Selenium	35.0		U	11/16/2015	18:02:00
7440-22-4	Silver	10.0		U	11/16/2015	18:02:00
7440-23-5	Sodium	39000			11/16/2015	18:02:00
7440-28-0	Thallium	25.0		U	11/16/2015	18:02:00
7440-62-2	Vanadium	50.0		U	11/16/2015	18:02:00
7440-66-6	Zinc	60.0		U	11/16/2015	18:02:00

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-009

% Solids: Date Received: 11/12/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/16/2015	18:06:48
7440-36-0	Antimony	60.0		U	11/16/2015	18:06:48
7440-38-2	Arsenic	10.0		U	11/16/2015	18:06:48
7440-39-3	Barium	200		U	11/16/2015	18:06:48
7440-41-7	Beryllium	0.086		J	11/16/2015	18:06:48
7440-43-9	Cadmium	5.0		U	11/16/2015	18:06:48
7440-70-2	Calcium	51800			11/16/2015	18:06:48
7440-47-3	Chromium	10.0		U	11/16/2015	18:06:48
7440-48-4	Cobalt	50.0		U	11/16/2015	18:06:48
7440-50-8	Copper	25.0		U	11/16/2015	18:06:48
7439-89-6	Iron	144			11/16/2015	18:06:48
7439-92-1	Lead	10.0		U	11/16/2015	18:06:48
7439-95-4	Magnesium	16100			11/16/2015	18:06:48
7439-96-5	Manganese	58.2			11/16/2015	18:06:48
7440-02-0	Nickel	40.0		U	11/16/2015	18:06:48
7440-09-7	Potassium	1990		J	11/16/2015	18:06:48
7782-49-2	Selenium	35.0		U	11/16/2015	18:06:48
7440-22-4	Silver	10.0		U	11/16/2015	18:06:48
7440-23-5	Sodium	40000			11/16/2015	18:06:48
7440-28-0	Thallium	25.0		U	11/16/2015	18:06:48
7440-62-2	Vanadium	50.0		U	11/16/2015	18:06:48
7440-66-6	Zinc	7.6		J	11/16/2015	18:06:48

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-010

% Solids: Date Received: 11/14/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/21/2015	15:21:40
7440-36-0	Antimony	60.0		U	11/21/2015	15:21:40
7440-38-2	Arsenic	10.0		U	11/21/2015	15:21:40
7440-39-3	Barium	200		U	11/21/2015	15:21:40
7440-41-7	Beryllium	0.089		J	11/21/2015	15:21:40
7440-43-9	Cadmium	5.0		U	11/21/2015	15:21:40
7440-70-2	Calcium	45200			11/21/2015	15:21:40
7440-47-3	Chromium	10.0		U	11/21/2015	15:21:40
7440-48-4	Cobalt	50.0		U	11/21/2015	15:21:40
7440-50-8	Copper	25.0		U	11/21/2015	15:21:40
7439-89-6	Iron	233			11/21/2015	15:21:40
7439-92-1	Lead	10.0		U	11/21/2015	15:21:40
7439-95-4	Magnesium	12300			11/21/2015	15:21:40
7439-96-5	Manganese	67.7			11/21/2015	15:21:40
7440-02-0	Nickel	40.0		U	11/21/2015	15:21:40
7440-09-7	Potassium	1970		J	11/21/2015	15:21:40
7782-49-2	Selenium	35.0		U	11/21/2015	15:21:40
7440-22-4	Silver	10.0		U	11/21/2015	15:21:40
7440-23-5	Sodium	36600			11/21/2015	15:21:40
7440-28-0	Thallium	25.0		U	11/21/2015	15:21:40
7440-62-2	Vanadium	50.0		U	11/21/2015	15:21:40
7440-66-6	Zinc	60.0		U	11/21/2015	15:21:40

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-011

% Solids: Date Received: 11/14/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/21/2015	15:45:31
7440-36-0	Antimony	60.0		U	11/21/2015	15:45:31
7440-38-2	Arsenic	10.0		U	11/21/2015	15:45:31
7440-39-3	Barium	200		U	11/21/2015	15:45:31
7440-41-7	Beryllium	0.096		J	11/21/2015	15:45:31
7440-43-9	Cadmium	5.0		U	11/21/2015	15:45:31
7440-70-2	Calcium	40900			11/21/2015	15:45:31
7440-47-3	Chromium	10.0		U	11/21/2015	15:45:31
7440-48-4	Cobalt	50.0		U	11/21/2015	15:45:31
7440-50-8	Copper	25.0		U	11/21/2015	15:45:31
7439-89-6	Iron	194			11/21/2015	15:45:31
7439-92-1	Lead	10.0		U	11/21/2015	15:45:31
7439-95-4	Magnesium	11200			11/21/2015	15:45:31
7439-96-5	Manganese	53.7			11/21/2015	15:45:31
7440-02-0	Nickel	40.0		U	11/21/2015	15:45:31
7440-09-7	Potassium	2070		J	11/21/2015	15:45:31
7782-49-2	Selenium	35.0		U	11/21/2015	15:45:31
7440-22-4	Silver	10.0		U	11/21/2015	15:45:31
7440-23-5	Sodium	31500			11/21/2015	15:45:31
7440-28-0	Thallium	25.0		U	11/21/2015	15:45:31
7440-62-2	Vanadium	50.0		U	11/21/2015	15:45:31
7440-66-6	Zinc	60.0		U	11/21/2015	15:45:31

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-012

% Solids: Date Received: 11/14/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/21/2015	15:50:18
7440-36-0	Antimony	60.0		U	11/21/2015	15:50:18
7440-38-2	Arsenic	10.0		U	11/21/2015	15:50:18
7440-39-3	Barium	200		U	11/21/2015	15:50:18
7440-41-7	Beryllium	0.089		J	11/21/2015	15:50:18
7440-43-9	Cadmium	5.0		U	11/21/2015	15:50:18
7440-70-2	Calcium	41900			11/21/2015	15:50:18
7440-47-3	Chromium	10.0		U	11/21/2015	15:50:18
7440-48-4	Cobalt	50.0		U	11/21/2015	15:50:18
7440-50-8	Copper	25.0		U	11/21/2015	15:50:18
7439-89-6	Iron	156			11/21/2015	15:50:18
7439-92-1	Lead	10.0		U	11/21/2015	15:50:18
7439-95-4	Magnesium	11500			11/21/2015	15:50:18
7439-96-5	Manganese	42.3			11/21/2015	15:50:18
7440-02-0	Nickel	40.0		U	11/21/2015	15:50:18
7440-09-7	Potassium	2150		J	11/21/2015	15:50:18
7782-49-2	Selenium	35.0		U	11/21/2015	15:50:18
7440-22-4	Silver	10.0		U	11/21/2015	15:50:18
7440-23-5	Sodium	31800			11/21/2015	15:50:18
7440-28-0	Thallium	25.0		U	11/21/2015	15:50:18
7440-62-2	Vanadium	50.0		U	11/21/2015	15:50:18
7440-66-6	Zinc	60.0		U	11/21/2015	15:50:18

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-013

% Solids: Date Received: 11/14/2015

Analytical Method: ICP-AES

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration		Q	Date Analyzed	Time Analyzed
7429-90-5	Aluminum	200		U	11/21/2015	15:55:04
7440-36-0	Antimony	60.0		U	11/21/2015	15:55:04
7440-38-2	Arsenic	10.0		U	11/21/2015	15:55:04
7440-39-3	Barium	200		U	11/21/2015	15:55:04
7440-41-7	Beryllium	0.11		J	11/21/2015	15:55:04
7440-43-9	Cadmium	5.0		U	11/21/2015	15:55:04
7440-70-2	Calcium	43000			11/21/2015	15:55:04
7440-47-3	Chromium	10.0		U	11/21/2015	15:55:04
7440-48-4	Cobalt	50.0		U	11/21/2015	15:55:04
7440-50-8	Copper	25.0		U	11/21/2015	15:55:04
7439-89-6	Iron	185			11/21/2015	15:55:04
7439-92-1	Lead	10.0		U	11/21/2015	15:55:04
7439-95-4	Magnesium	11700			11/21/2015	15:55:04
7439-96-5	Manganese	53.9			11/21/2015	15:55:04
7440-02-0	Nickel	40.0		U	11/21/2015	15:55:04
7440-09-7	Potassium	2220		J	11/21/2015	15:55:04
7782-49-2	Selenium	35.0		U	11/21/2015	15:55:04
7440-22-4	Silver	10.0		U	11/21/2015	15:55:04
7440-23-5	Sodium	32600			11/21/2015	15:55:04
7440-28-0	Thallium	25.0		U	11/21/2015	15:55:04
7440-62-2	Vanadium	50.0		U	11/21/2015	15:55:04
7440-66-6	Zinc	60.0		U	11/21/2015	15:55:04

NOTE: Hardness (total) is reported in mg/L

Comments:

ICP-AES
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5111615A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2520	2540	101	1	50000	50600	101	2	49400	99	0
Antimony	994	946	95	1	2500	2410	96	0	2440	98	0
Arsenic	999	976	98	1	2500	2480	99	0	2470	99	0
Barium	497	493	99	0	10000	9700	97	1	9610	96	0
Beryllium	495	513	104	1	1000	1090	109	1	1040	104	3
Cadmium	496	465	94	1	1000	959	96	0	977	98	0
Calcium	10000	10300	103	0	50000	49600	99	1	49000	98	0
Chromium	490	503	103	1	10000	10300	103	2	10100	101	2
Cobalt	499	471	94	1	5000	4720	94	0	4760	95	0
Copper	492	493	100	1	12500	12400	99	2	12600	101	2
Iron	5080	5080	100	1	25000	24800	99	1	24600	98	0
Lead	1000	905	90	0	10000	9200	92	0	9210	92	0
Magnesium	6070	6150	101	1	50000	49300	99	1	49000	98	1
Manganese	499	518	104	1	5000	5060	101	1	4980	100	1
Nickel	503	474	94	1	5000	4760	95	0	4730	95	0
Potassium	10000	10400	104	1	37500	37400	100	1	37200	99	0
Selenium	1030	955	93	1	1250	1220	98	0	1220	98	0
Silver	501	494	99	1	750	734	98	2	739	99	2
Sodium	10100	10800	107	0	25000	25800	103	1	26000	104	0
Thallium	1030	954	93	1	1000	904	90	0	919	92	0
Vanadium	501	501	100	1	2500	2530	101	2	2490	100	2
Zinc	1030	968	94	1	5000	4830	97	0	4810	96	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5111615A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					50000	49400	99	0	49500	99	1
Antimony					2500	2390	96	0	2400	96	0
Arsenic					2500	2440	98	0	2450	98	0
Barium					10000	9450	95	1	9590	96	0
Beryllium					1000	1060	106	2	1070	107	3
Cadmium					1000	964	96	0	966	97	0
Calcium					50000	48300	97	0	49000	98	1
Chromium					10000	10300	103	3	10300	103	2
Cobalt					5000	4730	95	0	4750	95	0
Copper					12500	12400	99	0	12500	100	3
Iron					25000	24400	98	0	24600	98	1
Lead					10000	9130	91	0	9170	92	0
Magnesium					50000	49200	98	1	49900	100	0
Manganese					5000	4980	100	2	5100	102	2
Nickel					5000	4680	94	0	4700	94	0
Potassium					37500	36700	98	1	37200	99	0
Selenium					1250	1200	96	0	1210	97	0
Silver					750	746	99	1	754	101	2
Sodium					25000	25600	102	0	25800	103	0
Thallium					1000	916	92	0	920	92	0
Vanadium					2500	2530	101	1	2550	102	3
Zinc					5000	4790	96	0	4820	96	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5111615A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV005				ID: CCV006		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum					50000	48400	97	0	49100	98	1
Antimony					2500	2380	95	0	2420	97	0
Arsenic					2500	2430	97	0	2480	99	0
Barium					10000	9490	95	0	9760	98	0
Beryllium					1000	1040	104	1	1070	107	1
Cadmium					1000	960	96	0	961	96	0
Calcium					50000	48300	97	0	48900	98	0
Chromium					10000	10200	102	0	10200	102	1
Cobalt					5000	4710	94	0	4720	94	0
Copper					12500	12300	98	1	12400	99	1
Iron					25000	24200	97	0	24200	97	0
Lead					10000	9090	91	0	9200	92	0
Magnesium					50000	49300	99	0	48100	96	0
Manganese					5000	4990	100	1	5040	101	2
Nickel					5000	4650	93	0	4760	95	0
Potassium					37500	37100	99	0	37900	101	0
Selenium					1250	1200	96	0	1230	98	0
Silver					750	740	99	0	736	98	1
Sodium					25000	26000	104	0	26200	105	0
Thallium					1000	911	91	0	906	91	0
Vanadium					2500	2490	100	1	2510	100	1
Zinc					5000	4770	95	0	4810	96	0

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Initial Calibration Verification Source: EPA ICV1-0307

Continuing Calibration Verification Source: Inorganic Ventures

Run Batch: I5112115A ISM Analytical Method: ICP-AES

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV002				ID: CCV007				ID: CCV008		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Aluminum	2520	2740	109	1	50000	51900	104	0	50700	101	0
Antimony	994	980	99	0	2500	2450	98	0	2450	98	0
Arsenic	999	1000	100	0	2500	2500	100	0	2490	100	0
Barium	497	511	103	0	10000	9980	100	3	10000	100	4
Beryllium	495	499	101	1	1000	1050	105	3	1010	101	1
Cadmium	496	480	97	0	1000	987	99	0	983	98	0
Calcium	10000	10800	108	0	50000	52300	105	0	51600	103	0
Chromium	490	504	103	2	10000	10300	103	3	9990	100	1
Cobalt	499	484	97	0	5000	4820	96	0	4810	96	0
Copper	492	488	99	1	12500	12200	98	3	11900	95	2
Iron	5080	5350	105	0	25000	26000	104	0	25500	102	0
Lead	1000	937	94	1	10000	9450	95	0	9400	94	0
Magnesium	6070	6440	106	0	50000	52400	105	0	51400	103	0
Manganese	499	517	104	1	5000	5040	101	2	4910	98	2
Nickel	503	488	97	0	5000	4800	96	0	4770	95	0
Potassium	10000	10600	106	0	37500	38700	103	0	38300	102	1
Selenium	1030	987	96	0	1250	1240	99	0	1240	99	0
Silver	501	502	100	1	750	759	101	3	739	99	1
Sodium	10100	11000	109	0	25000	26500	106	0	26400	106	0
Thallium	1030	989	96	1	1000	934	93	0	925	93	0
Vanadium	501	504	101	1	2500	2550	102	3	2480	99	1
Zinc	1030	1000	98	0	5000	4970	99	0	4950	99	0

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Preparation Blank Matrix: WATER

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug): UG/L

Analytical Method: ICP-AES Preparation Batch: 89520

Run Batch: I5111615A ISM Preparation Method 200.7

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID: ICB001	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q	ID: PBW001	Q
Aluminum	200	U	200	U	200	U	200	U	200	U
Antimony	60.0	U	60.0	U	60.0	U	60.0	U	60.0	U
Arsenic	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Barium	200	U	200	U	200	U	200	U	200	U
Beryllium	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Cadmium	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U
Calcium	5000	U	5000	U	5000	U	5000	U	5000	U
Chromium	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Cobalt	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
Copper	25.0	U	25.0	U	25.0	U	25.0	U	25.0	U
Iron	100	U	100	U	100	U	100	U	100	U
Lead	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Magnesium	5000	U	5000	U	5000	U	5000	U	5000	U
Manganese	15.0	U	15.0	U	15.0	U	15.0	U	2.1	J
Nickel	40.0	U	40.0	U	40.0	U	40.0	U	40.0	U
Potassium	222	J	124	J	110	J	204	J	5000	U
Selenium	35.0	U	35.0	U	35.0	U	35.0	U	35.0	U
Silver	10.0	U	10.0	U	10.0	U	10.0	U	10.0	U
Sodium	5000	U	5000	U	5000	U	5000	U	5000	U
Thallium	25.0	U	25.0	U	25.0	U	25.0	U	25.0	U
Vanadium	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
Zinc	60.0	U	60.0	U	60.0	U	60.0	U	6.7	J

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: ICP-AES Preparation Batch:

Run Batch: I5111615A ISM Preparation Method

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID:	Q	ID: CCB004	Q	ID: CCB005	Q	ID: CCB006	Q	ID:	Q
Aluminum			200	U	200	U	200	U		
Antimony			60.0	U	60.0	U	60.0	U		
Arsenic			10.0	U	10.0	U	10.0	U		
Barium			200	U	200	U	200	U		
Beryllium			5.0	U	5.0	U	5.0	U		
Cadmium			5.0	U	5.0	U	5.0	U		
Calcium			5000	U	5000	U	5000	U		
Chromium			10.0	U	10.0	U	10.0	U		
Cobalt			50.0	U	50.0	U	50.0	U		
Copper			25.0	U	25.0	U	25.0	U		
Iron			100	U	28.7	J	100	U		
Lead			10.0	U	10.0	U	10.0	U		
Magnesium			5000	U	5000	U	5000	U		
Manganese			15.0	U	15.0	U	15.0	U		
Nickel			40.0	U	40.0	U	40.0	U		
Potassium			298	J	155	J	5000	U		
Selenium			35.0	U	35.0	U	35.0	U		
Silver			10.0	U	10.0	U	10.0	U		
Sodium			5000	U	5000	U	5000	U		
Thallium			25.0	U	25.0	U	25.0	U		
Vanadium			50.0	U	50.0	U	50.0	U		
Zinc			60.0	U	60.0	U	60.0	U		

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Preparation Blank Matrix: WATER

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug): UG/L

Analytical Method: ICP-AES Preparation Batch: 89995

Run Batch: I5112115A ISM Preparation Method 200.7

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID: ICB002	Q	ID: CCB007	Q	ID: CCB008	Q	ID:	Q	ID: PBW002	Q
Aluminum	200	U	200	U	200	U			200	U
Antimony	60.0	U	60.0	U	60.0	U			60.0	U
Arsenic	10.0	U	10.0	U	10.0	U			10.0	U
Barium	200	U	200	U	200	U			200	U
Beryllium	5.0	U	5.0	U	5.0	U			5.0	U
Cadmium	5.0	U	5.0	U	5.0	U			5.0	U
Calcium	5000	U	5000	U	5000	U			5000	U
Chromium	10.0	U	10.0	U	10.0	U			10.0	U
Cobalt	50.0	U	50.0	U	50.0	U			50.0	U
Copper	25.0	U	25.0	U	25.0	U			25.0	U
Iron	100	U	100	U	100	U			100	U
Lead	10.0	U	10.0	U	10.0	U			10.0	U
Magnesium	5000	U	5000	U	5000	U			5000	U
Manganese	15.0	U	15.0	U	15.0	U			15.0	U
Nickel	40.0	U	40.0	U	40.0	U			40.0	U
Potassium	136	J	105	J	5000	U			5000	U
Selenium	35.0	U	35.0	U	35.0	U			35.0	U
Silver	10.0	U	10.0	U	10.0	U			10.0	U
Sodium	5000	U	5000	U	5000	U			5000	U
Thallium	25.0	U	25.0	U	25.0	U			25.0	U
Vanadium	50.0	U	50.0	U	50.0	U			50.0	U
Zinc	60.0	U	60.0	U	60.0	U			60.0	U

FORM 4-IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Analytical Method: ICP-AES ICSA Source: EPA ICSA-1211/0

Instrument ID: ICP5 ICSB Source: EPA ICSA-1211/07

Run Batch: I5112115A ISM

Concentration Units: ug/L

Analyte	True		Found			
	ICSA	ICSAB	ICSA	%R	ICSAB	%R
Aluminum	255000	247000	253000	99	253000	103
Antimony	0.00	618	3.2	0	572	93
Arsenic	0.00	104	-0.23	0	100	96
Barium	6.0	537	7.5	125	497	93
Beryllium	0.0000	495	0.19	0	590	119
Cadmium	1.0	972	0.88	88	965	99
Calcium	245000	235000	244000	100	240000	102
Chromium	52.0	542	59.2	114	611	113
Cobalt	0.000	476	-0.64	0	454	95
Copper	2.0	511	-2.7	-135	536	105
Iron	101000	99300	97300	97	96400	97
Lead	0.00	49.0	-0.02	0	43.4	89
Magnesium	255000	248000	252000	99	250000	101
Manganese	7.0	507	17.7	253	572	113
Nickel	2.0	954	-0.76	-38	908	95
Selenium	0.00	46.0	-0.61	0	47.3	103
Silver	0.00	201	0.14	0	217	108
Thallium	0.00	108	-2.5	0	86.0	80
Vanadium	0.00	491	1.5	0	533	109
Zinc	0.00	952	1.3	0	942	99

FORM 4-IN

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Shealy Environmental Services Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Analytical Method: ICP-AES ICSA Source: EPA ICSA-1211/0

Instrument ID: ICP5 ICSB Source: EPA ICSA-1211/07

Run Batch: I5112115A ISM

Concentration Units: ug/L

Analyte	True		Found			
	ICSA	ICSAB	ICSA	%R	ICSAB	%R
Aluminum	255000	247000	265000	104	267000	108
Antimony	0.00	618	4.8	0	597	97
Arsenic	0.00	104	-4.2	0	97.3	94
Barium	6.0	537	8.4	140	538	100
Beryllium	0.0000	495	0.24	0	546	110
Cadmium	1.0	972	1.2	120	1010	104
Calcium	245000	235000	263000	108	262000	112
Chromium	52.0	542	60.0	115	580	107
Cobalt	0.000	476	-0.53	0	468	98
Copper	2.0	511	-3.9	-195	506	99
Iron	101000	99300	104000	103	105000	106
Lead	0.00	49.0	-0.41	0	45.5	93
Magnesium	255000	248000	272000	106	273000	110
Manganese	7.0	507	18.3	261	554	109
Nickel	2.0	954	3.0	150	936	98
Selenium	0.00	46.0	-0.43	0	51.0	111
Silver	0.00	201	0.20	0	214	106
Thallium	0.00	108	-2.0	0	88.6	82
Vanadium	0.00	491	1.8	0	519	106
Zinc	0.00	952	1.2	0	982	103

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7F5S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Analytical Method: ICP-AES

% Solids for Sample:

Concentration Units (ug/L, mg/L, or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75 - 125	2210		200	U	2000	111	
Antimony	75 - 125	92.0		60.0	U	100	92	
Arsenic	75 - 125	38.8		10.0	U	40.0	97	
Barium	75 - 125	1820		22.3	J	2000	90	
Beryllium	75 - 125	49.2		0.11	J	50.0	98	
Cadmium	75 - 125	44.8		5.0	U	50.0	90	
Chromium	75 - 125	195		10.0	U	200	98	
Cobalt	75 - 125	452		50.0	U	500	90	
Copper	75 - 125	231		25.0	U	250	92	
Iron	75 - 125	1370		310		1000	106	
Lead	75 - 125	18.2		10.0	U	20.0	91	
Manganese	75 - 125	518		34.7		500	97	
Nickel	75 - 125	445		40.0	U	500	89	
Selenium	75 - 125	97.7		35.0	U	100	98	
Silver	75 - 125	47.7		10.0	U	50.0	95	
Thallium	75 - 125	49.1		25.0	U	50.0	98	
Vanadium	75 - 125	472		50.0	U	500	94	
Zinc	75 - 125	465		60.0	U	500	93	

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7G3S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Analytical Method: ICP-AES

% Solids for Sample:

Concentration Units (ug/L, mg/L, or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Aluminum	75 - 125	2120		200	U	2000	106	
Antimony	75 - 125	98.0		60.0	U	100	98	
Arsenic	75 - 125	38.7		10.0	U	40.0	97	
Barium	75 - 125	1920		200	U	2000	96	
Beryllium	75 - 125	49.8		0.089	J	50.0	99	
Cadmium	75 - 125	46.5		5.0	U	50.0	93	
Chromium	75 - 125	197		10.0	U	200	99	
Cobalt	75 - 125	464		50.0	U	500	93	
Copper	75 - 125	231		25.0	U	250	92	
Iron	75 - 125	1220		233		1000	99	
Lead	75 - 125	17.7		10.0	U	20.0	89	
Manganese	75 - 125	562		67.7		500	99	
Nickel	75 - 125	461		40.0	U	500	92	
Selenium	75 - 125	99.3		35.0	U	100	99	
Silver	75 - 125	49.8		10.0	U	50.0	100	
Thallium	75 - 125	47.7		25.0	U	50.0	95	
Vanadium	75 - 125	485		50.0	U	500	97	
Zinc	75 - 125	484		60.0	U	500	97	

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC7F5D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Analytical Method: ICP-AES

% Solids:

Concentration Units:(ug/L, mg/L, or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Aluminum		200	U	138	J		
Antimony		60.0	U	60.0	U		
Arsenic		10.0	U	10.0	U		
Barium		22.3	J	21.3	J		
Beryllium		0.11	J	0.11	J		
Cadmium		5.0	U	5.0	U		
Calcium		27400		26900		2	
Chromium		10.0	U	10.0	U		
Cobalt		50.0	U	50.0	U		
Copper		25.0	U	25.0	U		
Iron	100	310		294		5	
Lead		10.0	U	10.0	U		
Magnesium	5000	5740		5740		0	
Manganese	15.0	34.7		28.2		21	
Nickel		40.0	U	40.0	U		
Potassium		1850	J	1830	J		
Selenium		35.0	U	35.0	U		
Silver		10.0	U	10.0	U		
Sodium	5000	23000		22500		2	
Thallium		25.0	U	25.0	U		
Vanadium		50.0	U	50.0	U		
Zinc		60.0	U	60.0	U		

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC7G3D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Analytical Method: ICP-AES

% Solids:

Concentration Units:(ug/L, mg/L, or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Aluminum		200	U	200	U		
Antimony		60.0	U	60.0	U		
Arsenic		10.0	U	10.0	U		
Barium		200	U	200	U		
Beryllium		0.089	J	0.096	J		
Cadmium		5.0	U	5.0	U		
Calcium		45200		45300		0	
Chromium		10.0	U	10.0	U		
Cobalt		50.0	U	50.0	U		
Copper		25.0	U	25.0	U		
Iron	100	233		238		2	
Lead		10.0	U	10.0	U		
Magnesium	5000	12300		12300		0	
Manganese	15.0	67.7		67.6		0	
Nickel		40.0	U	40.0	U		
Potassium		1970	J	1990	J		
Selenium		35.0	U	35.0	U		
Silver		10.0	U	10.0	U		
Sodium		36600		36700		0	
Thallium		25.0	U	25.0	U		
Vanadium		50.0	U	50.0	U		
Zinc		60.0	U	60.0	U		

FORM 7 - IN

LABORATORY CONTROL SAMPLE

EPA SAMPLE NO.

LCS001

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Preparation Method: 200.7

Analytical Method: ICP-AES Preparation Batch: 89520

Concentration Units:(ug/L, mg/L, mg/kg dry weight, or ug): ug/L

Analyte	True	Found	%R
Aluminum	400	361	90
Antimony	120	115	96
Arsenic	20.0	19.1	96
Barium	400	374	94
Beryllium	10.0	10.1	101
Cadmium	10.0	9.2	92
Calcium	10000	9780	98
Chromium	20.0	20.3	102
Cobalt	100	93.4	93
Copper	50.0	46.9	94
Iron	200	189	95
Lead	20.0	18.6	93
Magnesium	10000	10200	102
Manganese	30.0	37.2	124
Nickel	80.0	73.5	92
Potassium	10000	9880	99
Selenium	70.0	70.8	101
Silver	20.0	19.6	98
Sodium	10000	10600	106
Thallium	50.0	48.6	97
Vanadium	100	97.3	97
Zinc	120	115	96

FORM 7 - IN

LABORATORY CONTROL SAMPLE

EPA SAMPLE NO.

LCS002

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Preparation Method: 200.7

Analytical Method: ICP-AES Preparation Batch: 89995

Concentration Units:(ug/L, mg/L, mg/kg dry weight, or ug): ug/L

Analyte	True	Found	%R
Aluminum	400	386	97
Antimony	120	120	100
Arsenic	20.0	21.3	107
Barium	400	389	97
Beryllium	10.0	10.0	100
Cadmium	10.0	9.2	92
Calcium	10000	10300	103
Chromium	20.0	20.2	101
Cobalt	100	94.7	95
Copper	50.0	47.4	95
Iron	200	220	110
Lead	20.0	17.3	87
Magnesium	10000	10500	105
Manganese	30.0	30.9	103
Nickel	80.0	75.3	94
Potassium	10000	10200	102
Selenium	70.0	71.3	102
Silver	20.0	20.4	102
Sodium	10000	10700	107
Thallium	50.0	49.6	99
Vanadium	100	97.7	98
Zinc	120	118	98

FORM 8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MBC7F5L

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Analytical Method: ICP-AES

% Solids

Concentration Units (ug/L, mg/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	Q	Serial Dilution Result (S)	Q	% Difference	Q
Aluminum	200	U	1000	U		
Antimony	60.0	U	300	U		
Arsenic	10.0	U	50.0	U		
Barium	22.3	J	1000	U		
Beryllium	0.11	J	0.29	J	164	
Cadmium	5.0	U	25.0	U		
Calcium	27400		28600		4	
Chromium	10.0	U	50.0	U		
Cobalt	50.0	U	250	U		
Copper	25.0	U	125	U		
Iron	310		617		99	
Lead	10.0	U	50.0	U		
Magnesium	5740		5800	J	1	
Manganese	34.7		35.5	J	2	
Nickel	40.0	U	200	U		
Potassium	1850	J	2420	J	31	
Selenium	35.0	U	175	U		
Silver	10.0	U	50.0	U		
Sodium	23000		24300	J	6	
Thallium	25.0	U	125	U		
Vanadium	50.0	U	250	U		
Zinc	60.0	U	300	U		

FORM 8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MBC7G3L

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Analytical Method: ICP-AES

% Solids

Concentration Units (ug/L, mg/L or mg/kg dry weight): ug/L

Analyte	Initial Sample Result (I)	Q	Serial Dilution Result (S)	Q	% Difference	Q
Aluminum	200	U	1000	U		
Antimony	60.0	U	300	U		
Arsenic	10.0	U	50.0	U		
Barium	200	U	1000	U		
Beryllium	0.089	J	25.0	U		
Cadmium	5.0	U	25.0	U		
Calcium	45200		45100		0	
Chromium	10.0	U	50.0	U		
Cobalt	50.0	U	250	U		
Copper	25.0	U	125	U		
Iron	233		248	J	6	
Lead	10.0	U	50.0	U		
Magnesium	12300		12400	J	1	
Manganese	67.7		69.8	J	3	
Nickel	40.0	U	200	U		
Potassium	1970	J	2420	J	23	
Selenium	35.0	U	175	U		
Silver	10.0	U	50.0	U		
Sodium	36600		37400		2	
Thallium	25.0	U	125	U		
Vanadium	50.0	U	250	U		
Zinc	60.0	U	300	U		

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Analytical Method: ICP-AES Instrument ID: ICP5

Preparation Method: 200.7

Concentration Units (ug/L, ug, mg/kg): UG/L

Analyte	Wavelength/Mass	MDL	Date Analyzed
Aluminum	308.22	95.0	02/07/2015
Antimony	206.83	7.8	02/07/2015
Arsenic	189.04	3.9	02/07/2015
Barium	455.40	19.0	02/07/2015
Beryllium	313.04	0.052	02/07/2015
Cadmium	228.80	0.60	02/07/2015
Calcium	422.67	503	02/07/2015
Chromium	267.72	1.8	02/07/2015
Cobalt	228.62	0.25	02/07/2015
Copper	327.40	5.0	02/07/2015
Iron	261.19	19.0	02/07/2015
Lead	220.35	3.5	02/07/2015
Magnesium	285.21	51.0	02/07/2015
Manganese	257.61	0.43	02/07/2015
Nickel	231.60	1.1	02/07/2015
Potassium	766.49	90.0	02/07/2015
Selenium	196.09	5.5	02/07/2015
Silver	328.07	1.6	02/07/2015
Sodium	589.59	516	02/07/2015
Thallium	190.86	3.8	02/07/2015
Vanadium	292.40	1.1	02/07/2015
Zinc	206.20	6.6	02/07/2015

FORM 10A-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	-0.000044	0	0.000024	0	0
Arsenic	189.00	0.000007	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0.000003	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0.000038	-0.000018	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0.00041	0	0.000035	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	-0.0005	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0.000004	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Be	Cd	Co
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0.013	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0.00033
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0.00050
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0.0027
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cr	Cu	K	Mn	Mo
Aluminum	308.215	0	0	0	0	0.012
Antimony	206.838	0.019	0	0	0	-0.0065
Arsenic	189.00	0.00079	0	0	-0.00042	0.00033
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0.00030	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00043	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	-0.0037
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Na	Ni	Pb	Sb	Se
Aluminum	308.215	0	0	0	0	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0	0	0	0	0
Copper	327.3	0	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0.00018	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	0	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS

Lab Name: Shealy Environmental Services, Inc Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: ICP5 Date: 01/31/2015

Analyte	Wave-length (nm)	Interelement Correction Factors for: Ti	Tl	U	V	Zn
Aluminum	308.215	0	0	0	0.043	0
Antimony	206.838	0	0	0	0	0
Arsenic	189.00	0	0	0	0	0
Barium	455.409	0	0	0	0	0
Beryllium	313.042	0	0	0	0.00042	0
Boron	249.60	0	0	0	0	0
Cadmium	228.80	0	0	0	0	0
Calcium	217.90	0	0	0	0	0
Chromium	267.716	0	0	0	0	0
Cobalt	228.616	0.0023	0	0	0	0
Copper	327.3	-0.00072	0	0	0	0
Iron	261.10	0	0	0	0	0
Lead	220.353	0	0	0	0	0
Magnesium	279.079	0	0	0	0	0
Manganese	257.610	0	0	0	0	0
Molybdenum	202.00	0	0	0	0	0
Nickel	231.604	0	0	0	0	0
Potassium	766.491	0	0	0	0	0
Selenium	196.026	0	0	0	0	0
Silicon	212.40	0	0	0	0	0
Silver	328.068	0	0	0	0	0
Sodium	589.50	0	0	0	0	0
Thallium	190.80	0	0	0	-0.012	0
Tin	189.90	0	0	0	0	0
Titanium	337.20	0	0	0	0	0
Uranium	263.5	0	0	0	0	0
Vanadium	292.402	0	0	0	0	0
Zinc	206.20	0	0	0	0	0

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/16/2015 End Date: 11/16/2015

Run Batch: I5111615A ISM

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1131	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S01	1.0	1135	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S02	1.0	1140	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S03	1.0	1145	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S04	1.0	1150		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S05	1.0	1156		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S06	1.0	1201	X						X				X		X				X			X						
S07	1.0	1206	X						X				X		X													
S08	1.0	1211																	X			X						
S09	1.0	1215																				X						
S10	1.0	1220																	X									
ICV001	1.0	1225	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB001	1.0	1230	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA001	1.0	1235	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB001	1.0	1239	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV001	1.0	1244	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB001	1.0	1249	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1254																										
ZZZZZZ	1.0	1259																										
ZZZZZZ	1.0	1304																										
ZZZZZZ	1.0	1309																										
ZZZZZZ	1.0	1313																										
ZZZZZZ	1.0	1318																										
ZZZZZZ	1.0	1323																										
ZZZZZZ	1.0	1328																										
ZZZZZZ	1.0	1332																										
ZZZZZZ	1.0	1337																										
ZZZZZZ	5.0	1342																										
ZZZZZZ	1.0	1347																										
ZZZZZZ	1.0	1352																										
ZZZZZZ	1.0	1356																										
ZZZZZZ	1.0	1401																										
ZZZZZZ	1.0	1406																										
ZZZZZZ	5.0	1411																										
ZZZZZZ	1.0	1415																										
ZZZZZZ	1.0	1420																										
ZZZZZZ	1.0	1425																										
ZZZZZZ	1.0	1430																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/16/2015 End Date: 11/16/2015

Run Batch: I5111615A ISM

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCV002	1.0	1435	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB002	1.0	1440	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1445																										
ZZZZZZ	1.0	1449																										
ZZZZZZ	1.0	1454																										
ZZZZZZ	5.0	1459																										
ZZZZZZ	1.0	1504																										
ZZZZZZ	1.0	1509																										
ZZZZZZ	1.0	1513																										
ZZZZZZ	1.0	1518																										
ZZZZZZ	1.0	1523																										
ZZZZZZ	1.0	1528																										
ZZZZZZ	1.0	1532																										
ZZZZZZ	1.0	1537																										
ZZZZZZ	5.0	1542																										
PBW001	1.0	1547	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCS001	1.0	1552	X	X	X	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1556																										
ZZZZZZ	5.0	1601																										
ZZZZZZ	1.0	1606																										
ZZZZZZ	1.0	1611																										
ZZZZZZ	1.0	1616																										
CCV003	1.0	1620	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB003	1.0	1626	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1630																										
ZZZZZZ	1.0	1635																										
ZZZZZZ	1.0	1640																										
ZZZZZZ	5.0	1645																										
ZZZZZZ	1.0	1650																										
ZZZZZZ	1.0	1654																										
ZZZZZZ	1.0	1659																										
ZZZZZZ	1.0	1704																										
MBC7F4	1.0	1709	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7F5	1.0	1714	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7F5L	5.0	1718	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7F5D	1.0	1723	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7F5S	1.0	1728	X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X			
ZZZZZZ	1.0	1733																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/16/2015 End Date: 11/16/2015

Run Batch: I5111615A ISM

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
MBC7F6	1.0	1738	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7F7	1.0	1742	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7F8	1.0	1747	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7F9	1.0	1752	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7G0	1.0	1757	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7G1	1.0	1802	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7G2	1.0	1806	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCV004	1.0	1811	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB004	1.0	1816	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1821																										
ZZZZZZ	1.0	1826																										
ZZZZZZ	5.0	1831																										
ZZZZZZ	5.0	1836																										
ZZZZZZ	5.0	1840																										
ZZZZZZ	5.0	1845																										
ZZZZZZ	5.0	1850																										
ZZZZZZ	5.0	1855																										
ZZZZZZ	5.0	1900																										
ZZZZZZ	5.0	1904																										
ZZZZZZ	5.0	1909																										
ZZZZZZ	5.0	1914																										
ZZZZZZ	5.0	1919																										
ZZZZZZ	5.0	1924																										
ZZZZZZ	5.0	1929																										
ZZZZZZ	5.0	1934																										
ZZZZZZ	5.0	1938																										
ZZZZZZ	5.0	1943																										
ZZZZZZ	5.0	1948																										
ZZZZZZ	2.0	1953																										
CCV005	1.0	1958	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB005	1.0	2003	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	2008																										
ZZZZZZ	2.0	2013																										
ZZZZZZ	1.0	2018																										
ZZZZZZ	2.0	2023																										
ZZZZZZ	1.0	2028																										
ZZZZZZ	2.0	2033																										
ZZZZZZ	1.0	2038																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/16/2015 End Date: 11/16/2015

Run Batch: I5111615A ISM

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	2.0	2043																										
ZZZZZZ	1.0	2048																										
ZZZZZZ	2.0	2053																										
ZZZZZZ	1.0	2058																										
ZZZZZZ	5.0	2103																										
LCS001	1.0	2108														X												
CCV006	1.0	2113	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB006	1.0	2118	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: 45717

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: QK12004

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/21/2015 End Date: 11/21/2015

Run Batch: I5112115A ISM

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1348	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S01	1.0	1353	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S02	1.0	1357	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S03	1.0	1402	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
S04	1.0	1407		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S05	1.0	1413		X	X	X	X	X		X	X	X		X		X		X		X	X		X	X	X			
S06	1.0	1418	X						X				X		X				X			X						
S07	1.0	1423	X						X				X		X													
S08	1.0	1428																	X			X						
S09	1.0	1433																				X						
S10	1.0	1437																	X									
ICV002	1.0	1442	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICB002	1.0	1447	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ICSA002	1.0	1452	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
ICSAB002	1.0	1457	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X		X	X		X	X	X			
CCV007	1.0	1502	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB007	1.0	1507	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
PBW002	1.0	1512	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
LCS002	1.0	1516	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7G3	1.0	1521	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7G3L	5.0	1526	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7G3D	1.0	1531	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7G3S	1.0	1535	X	X	X	X	X	X		X	X	X	X	X		X		X		X	X		X	X	X			
ZZZZZZ	1.0	1540																										
MBC7G4	1.0	1545	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7G5	1.0	1550	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
MBC7G6	1.0	1555	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
ZZZZZZ	1.0	1559																										
ZZZZZZ	1.0	1604																										
ZZZZZZ	5.0	1609																										
ZZZZZZ	1.0	1614																										
ZZZZZZ	1.0	1619																										
ZZZZZZ	1.0	1623																										
ZZZZZZ	1.0	1628																										
ZZZZZZ	5.0	1633																										
ZZZZZZ	1.0	1638																										
ZZZZZZ	1.0	1643																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: ICP5 Analytical Method: ICP-AES

Start Date: 11/21/2015 End Date: 11/21/2015

Run Batch: I5112115A ISM

EPA Sample NO.	D/F	Time	Analytes																								
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
CCV008	1.0	1652	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			
CCB008	1.0	1657	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X			

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7F4

Instrument ID: ICP5 **Start Date:** 11/16/2015

Analytical Method: ICP-AES **Run Batch:** I5111615A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	-0.014	0	200	208	4	800	832	4
Antimony	0.00	0.0063	0	60.0	58	-3	240	226	-6
Arsenic	0.00	-0.00099	0	10.0	11	11	40.0	40	-1
Barium	0.00	-0.0065	0	200	207	4	800	797	0
Beryllium	0.00	-0.00046	0	5.00	5.2	5	20.0	21	3
Cadmium	0.00	0.00080	0	5.00	4.8	-5	20.0	18	-9
Calcium	0.00	-0.69	0	5000	5409	8	20000	20744	4
Chromium	0.00	-0.00076	0	10.0	11	5	40.0	41	3
Cobalt	0.00	0.0051	0	50.0	49	-1	200	187	-7
Copper	0.00	0.0014	0	25.0	25	-1	100	97	-3
Iron	0.00	-0.011	0	100	108	8	400	404	1
Lead	0.00	0.0011	0	10.0	10	2	40.0	36	-10
Magnesium	0.00	-0.67	0	5000	5422	8	20000	20630	3
Manganese	0.00	-0.0023	0	15.0	16	10	60.0	63	5
Nickel	0.00	0.0044	0	40.0	39	-2	160	149	-7
Potassium	0.00	-0.91	0	5000	5493	10	20000	20760	4
Selenium	0.00	-0.00071	0	35.0	37	6	140	136	-3
Silver	0.00	-0.00003	0	10.0	10	2	40.0	39	-2
Sodium	0.00	-0.91	0	3000	3493	16	12000	13127	9
Thallium	0.00	0.0039	0	25.0	24	-3	100	91	-9
Vanadium	0.00	-0.0023	0	50.0	52	4	200	201	1
Zinc	0.00	0.0014	0	60.0	61	2	240	233	-3

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7F4

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	0.00	-0.0062	0	200	183	-9	800	871	9
Antimony	0.00	0.0030	0	60.0	60	0	240	232	-3
Arsenic	0.00	0.00017	0	10.0	10	1	40.0	39	-2
Barium	0.00	-0.0032	0	200	206	3	800	787	-2
Beryllium	0.00	-0.00015	0	5.00	5.1	2	20.0	20	1
Cadmium	0.00	0.00090	0	5.00	4.6	-8	20.0	18	-9
Calcium	0.00	-0.86	0	5000	5454	9	20000	20774	4
Chromium	0.00	-0.00058	0	10.0	11	5	40.0	40	1
Cobalt	0.00	0.0052	0	50.0	49	-2	200	187	-6
Copper	0.00	0.0017	0	25.0	25	-1	100	96	-4
Iron	0.00	-0.020	0	100	114	14	400	410	3
Lead	0.00	0.0010	0	10.0	10	5	40.0	35	-12
Magnesium	0.00	-0.73	0	5000	5432	9	20000	20570	3
Manganese	0.00	-0.0011	0	15.0	16	6	60.0	61	2
Nickel	0.00	0.0039	0	40.0	39	-2	160	151	-6
Potassium	0.00	-0.85	0	5000	5361	7	20000	20390	2
Selenium	0.00	0.00034	0	35.0	36	3	140	135	-3
Silver	0.00	0.00041	0	10.0	9.9	-1	40.0	39	-2
Sodium	0.00	-0.73	0	3000	3392	13	12000	12709	6
Thallium	0.00	0.0025	0	25.0	25	1	100	93	-7
Vanadium	0.00	-0.00020	0	50.0	51	2	200	198	-1
Zinc	0.00	0.0012	0	60.0	61	1	240	235	-2

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: ICP5 Start Date: 11/16/2015

Analytical Method: ICP-AES Run Batch: I5111615A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	50000	49332	-1			0			
Antimony	2500	2413	-3	3750	3718	-1	5000	5133	3
Arsenic	2500	2469	-1	3750	3702	-1	5000	5079	2
Barium	10000	9985	0	15000	15053	0	20000	19958	0
Beryllium	1000	1041	4	1500	1461	-3	2000	1998	0
Cadmium	1000	972	-3	1500	1531	2	2000	2110	6
Calcium	50000	51266	3			0			
Chromium	10000	9993	0	15000	14617	-3	20000	20389	2
Cobalt	5000	4747	-5	7500	7501	0	10000	10266	3
Copper	12500	12147	-3	18750	18729	0	25000	25377	2
Iron	25000	25556	2			0			
Lead	10000	9347	-7	15000	15043	0	20000	20615	3
Magnesium	50000	51280	3			0			
Manganese	5000	5090	2	7500	7322	-2	10000	10083	1
Nickel	5000	4742	-5	7500	7511	0	10000	10259	3
Potassium	37500	38900	4			0			
Selenium	1250	1235	-1	1875	1851	-1	2500	2541	2
Silver	750	760	1	1125	1100	-2	1500	1515	1
Sodium	25000	26943	8			0			
Thallium	1000	918	-8	1500	1520	1	2000	2073	4
Vanadium	2500	2542	2	3750	3674	-2	5000	5031	1
Zinc	5000	4915	-2	7500	7444	-1	10000	10148	1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: ICP5 Start Date: 11/21/2015

Analytical Method: ICP-AES Run Batch: I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	50000	51540	3			0			
Antimony	2500	2438	-2	3750	3719	-1	5000	5101	2
Arsenic	2500	2489	0	3750	3690	-2	5000	5073	1
Barium	10000	10071	1	15000	14865	-1	20000	20071	0
Beryllium	1000	1018	2	1500	1482	-1	2000	2000	0
Cadmium	1000	978	-2	1500	1532	2	2000	2104	5
Calcium	50000	52162	4			0			
Chromium	10000	9987	0	15000	14881	-1	20000	20131	1
Cobalt	5000	4775	-5	7500	7491	0	10000	10248	2
Copper	12500	12063	-3	18750	18908	1	25000	25283	1
Iron	25000	25923	4			0			
Lead	10000	9381	-6	15000	15048	0	20000	20576	3
Magnesium	50000	51730	3			0			
Manganese	5000	4938	-1	7500	7474	0	10000	10087	1
Nickel	5000	4778	-4	7500	7491	0	10000	10241	2
Potassium	37500	38530	3			0			
Selenium	1250	1241	-1	1875	1848	-1	2500	2540	2
Silver	750	738	-2	1125	1125	0	1500	1514	1
Sodium	25000	26334	5			0			
Thallium	1000	920	-8	1500	1520	1	2000	2067	3
Vanadium	2500	2477	-1	3750	3733	0	5000	5040	1
Zinc	5000	4945	-1	7500	7454	-1	10000	10107	1

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7F4

Instrument ID: ICP5 **Start Date:** 11/16/2015

Analytical Method: ICP-AES **Run Batch:** I5111615A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	150000	149870	0	300000	300760	0			
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	150000	150270	0	300000	297310	-1			
Chromium									
Cobalt									
Copper									
Iron	75000	75467	1	150000	148970	-1			
Lead									
Magnesium	150000	150200	0	300000	297500	-1			
Manganese									
Nickel									
Potassium	112500	111500	-1				56250	53990	-4
Selenium									
Silver									
Sodium	75000	76452	2				37500	37434	0
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7F4

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum	150000	151080	1	300000	297320	-1			
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium	150000	153170	2	300000	293440	-2			
Chromium									
Cobalt									
Copper									
Iron	75000	75827	1	150000	148230	-1			
Lead									
Magnesium	150000	151600	1	300000	295600	-1			
Manganese									
Nickel									
Potassium	112500	110800	-2				56250	55360	-2
Selenium									
Silver									
Sodium	75000	76448	2				37500	38765	3
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7F4

Instrument ID: ICP5 **Start Date:** 11/16/2015

Analytical Method: ICP-AES **Run Batch:** I5111615A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Nickel									
Potassium				10000	10570	6			
Selenium									
Silver									
Sodium	100000	95051	-5						
Thallium									
Vanadium									
Zinc									

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7F4

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Magnesium									
Manganese									
Nickel									
Potassium				10000	10820	8			
Selenium									
Silver									
Sodium	100000	94852	-5						
Thallium									
Vanadium									
Zinc									

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7F4

Instrument ID: ICP5 **Start Date:** 11/16/2015

Analytical Method: ICP-AES **Run Batch:** I5111615A ISM

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Aluminum	1.0000	1.00	0.00453	Lin. Req	Inverse Conc
Antimony	0.9997	1.01	-0.000474	Lin. Req	Inverse Conc
Arsenic	0.9999	1.00	0.000393	Lin. Req	Inverse Conc
Barium	1.0000	1.000	-0.00423	Lin. Req	Inverse Conc
Beryllium	0.9997	0.996	0.000673	Lin. Req	Inverse Conc
Cadmium	0.9995	1.04	-0.000587	Lin. Req	Inverse Conc
Calcium	1.0000	0.992	0.00828	Lin. Req	Inverse Conc
Chromium	0.9997	1.00	-0.0000490	Lin. Req	Inverse Conc
Cobalt	0.9996	1.01	0.000509	Lin. Req	Inverse Conc
Copper	0.9999	1.01	-0.000126	Lin. Req	Inverse Conc
Iron	1.0000	0.995	0.00114	Lin. Req	Inverse Conc
Lead	0.9993	1.01	-0.000449	Lin. Req	Inverse Conc
Magnesium	1.0000	0.993	-0.0000320	Lin. Req	Inverse Conc
Manganese	0.9998	1.000	0.0000360	Lin. Req	Inverse Conc
Nickel	0.9996	1.01	-0.00108	Lin. Req	Inverse Conc
Potassium	0.9997	0.987	0.00131	Lin. Req	Inverse Conc
Selenium	0.9999	1.00	-0.000244	Lin. Req	Inverse Conc
Silver	0.9998	1.00	0.0000740	Lin. Req	Inverse Conc
Sodium	0.9990	0.973	0.00477	Lin. Req	Inverse Conc
Thallium	0.9990	1.02	-0.000293	Lin. Req	Inverse Conc
Vanadium	0.9999	0.999	0.0000670	Lin. Req	Inverse Conc
Zinc	0.9999	1.00	-0.000176	Lin. Req	Inverse Conc

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

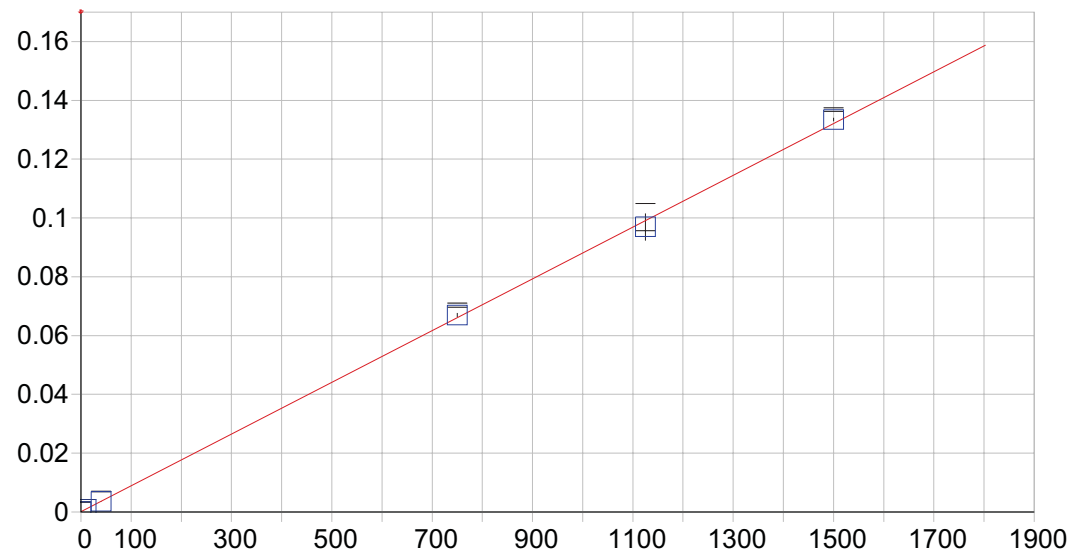
Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7F4

Instrument ID: ICP5 **Start Date:** 11/21/2015

Analytical Method: ICP-AES **Run Batch:** I5112115A ISM

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Aluminum	1.0000	0.994	0.00317	Lin. Req	Inverse Conc
Antimony	0.9998	1.01	-0.000487	Lin. Req	Inverse Conc
Arsenic	0.9999	1.00	-0.000173	Lin. Req	Inverse Conc
Barium	1.0000	1.00	-0.00116	Lin. Req	Inverse Conc
Beryllium	0.9999	0.998	0.000861	Lin. Req	Inverse Conc
Cadmium	0.9996	1.03	-0.000452	Lin. Req	Inverse Conc
Calcium	0.9998	0.985	0.00663	Lin. Req	Inverse Conc
Chromium	1.0000	1.00	0.000177	Lin. Req	Inverse Conc
Cobalt	0.9996	1.01	0.000453	Lin. Req	Inverse Conc
Copper	0.9998	1.01	-0.000141	Lin. Req	Inverse Conc
Iron	0.9999	0.992	0.000660	Lin. Req	Inverse Conc
Lead	0.9994	1.01	-0.000187	Lin. Req	Inverse Conc
Magnesium	0.9999	0.989	-0.000172	Lin. Req	Inverse Conc
Manganese	1.0000	1.00	0.0000040	Lin. Req	Inverse Conc
Nickel	0.9996	1.01	-0.000617	Lin. Req	Inverse Conc
Potassium	0.9999	0.985	-0.00582	Lin. Req	Inverse Conc
Selenium	0.9999	1.00	-0.000170	Lin. Req	Inverse Conc
Silver	1.0000	1.00	0.0000370	Lin. Req	Inverse Conc
Sodium	0.9989	0.974	0.0120	Lin. Req	Inverse Conc
Thallium	0.9991	1.02	-0.000275	Lin. Req	Inverse Conc
Vanadium	1.0000	1.00	0.0000720	Lin. Req	Inverse Conc
Zinc	0.9999	1.00	-0.000340	Lin. Req	Inverse Conc

ICP-AES
Raw Data



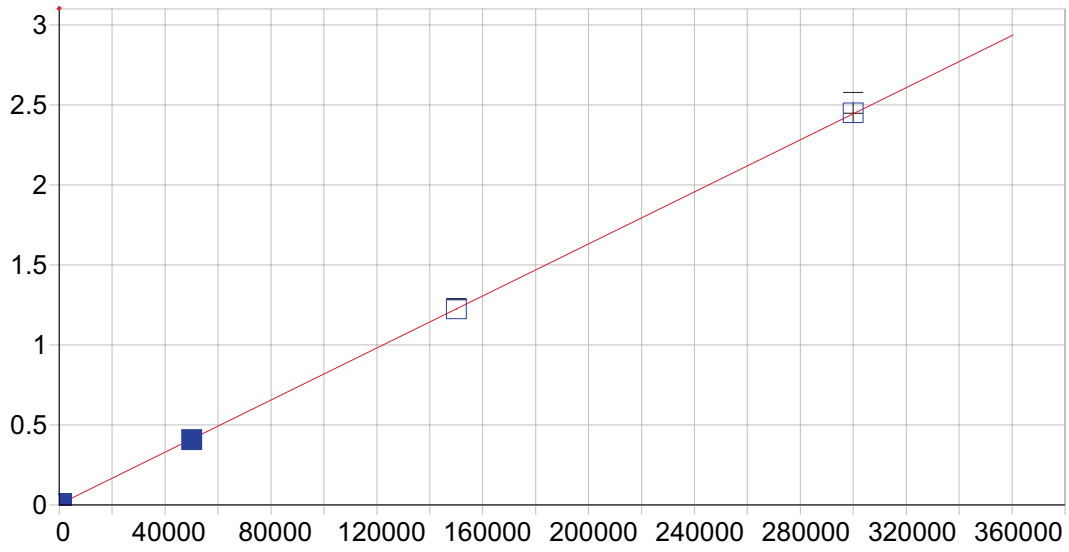
Ag 328.068 {103}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000074	Re-Slope:	1.000000
A1 (Gain):	0.000088	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999878	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	0.498803		
Predicted MQL:	1.662678		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00003	-.000	.000	.00007	.000	1
S01 ISM-520	10.000	10.174	.174	1.74	.00097	.000	1
S02 ISM-521	40.000	39.371	-.629	-1.57	.00354	.000	1
S03 ISM-538	750.00	759.71	9.71	1.29	.06695	.001	1
S04 ISM-523	1125.0	1100.4	-24.6	-2.19	.09693	.005	1
S05 ISM-524	1500.0	1515.3	15.3	1.02	.13346	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



Al 308.215 {109}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004533	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999988	Status:	OK.
Std Error of Est:	0.000016		
Predicted MDL:	87.411646		
Predicted MQL:	291.372154		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.01396	-.014	.000	.00453	.000	1
S01 ISM-520	200.00	208.38	8.38	4.19	.00625	.001	1
S02 ISM-521	800.00	831.63	31.6	3.95	.01138	.001	1
S03 ISM-538	50000.	49333.	-667.	-1.33	.40678	.002	1
S06 ISM-463	150000.	149870.	-130.	-.087	1.2236	.004	1
S07 ISM-464	300000.	300760.	758.	.253	2.4509	.066	1

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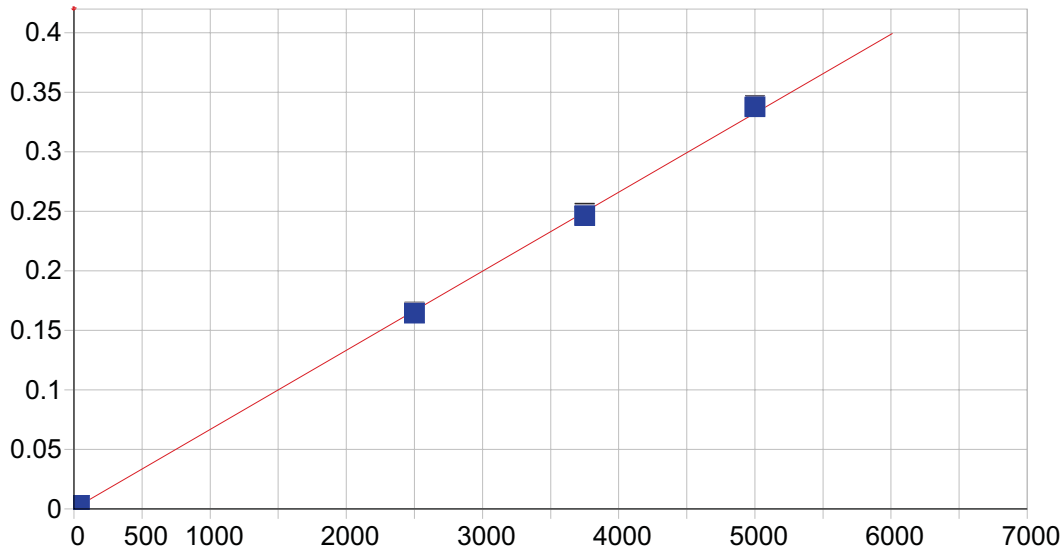

As 189.042 {478}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000393	Re-Slope:	1.000000
A1 (Gain):	0.000066	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999894	Status:	OK.
Std Error of Est:	0.000013		
Predicted MDL:	1.202841		
Predicted MQL:	4.009471		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00098	-.001	.000	.00039	.000	1
S01 ISM-520	10.000	11.134	1.13	11.3	.00113	.000	1
S02 ISM-521	40.000	39.790	-.210	-.524	.00304	.000	1
S03 ISM-538	2500.0	2468.4	-31.6	-1.26	.16479	.000	1
S04 ISM-523	3750.0	3701.4	-48.6	-1.30	.24687	.002	1
S05 ISM-524	5000.0	5079.3	79.3	1.59	.33861	.000	1

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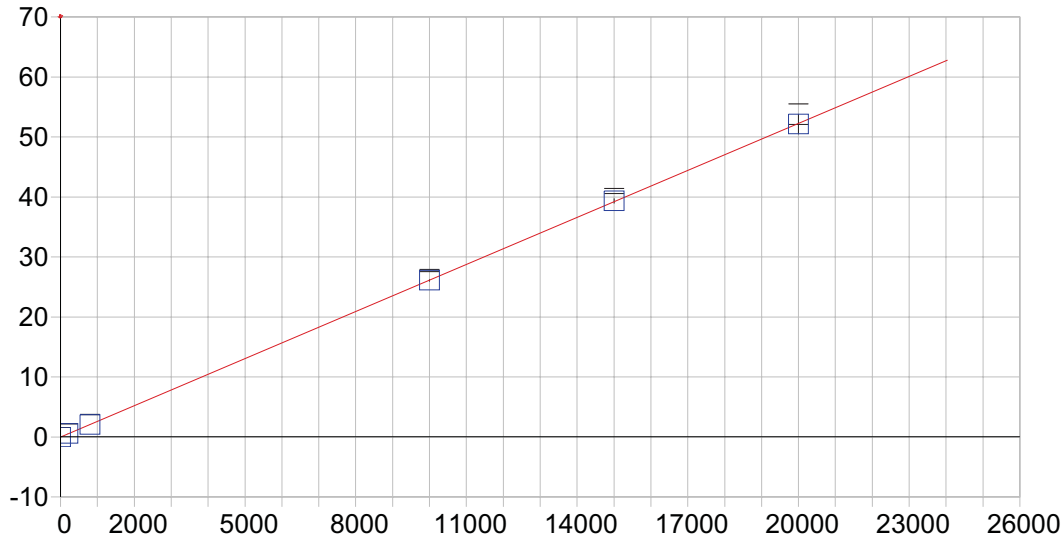

Ba 455.403 { 74}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.004226	Re-Slope:	1.000000
A1 (Gain):	0.002613	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999994	Status:	OK.
Std Error of Est:	0.001083		
Predicted MDL:	0.780924		
Predicted MQL:	2.603080		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00652	-.007	.000	-.00424	.001	1
S01 ISM-520	200.00	207.26	7.26	3.63	.53732	.009	1
S02 ISM-521	800.00	797.14	-2.86	-.357	2.0787	.033	1
S03 ISM-538	10000.	9984.8	-15.2	-.152	26.086	.180	1
S04 ISM-523	15000.	15053.	53.0	.353	39.329	.446	1
S05 ISM-524	20000.	19958.	-42.2	-.211	52.145	1.72	1

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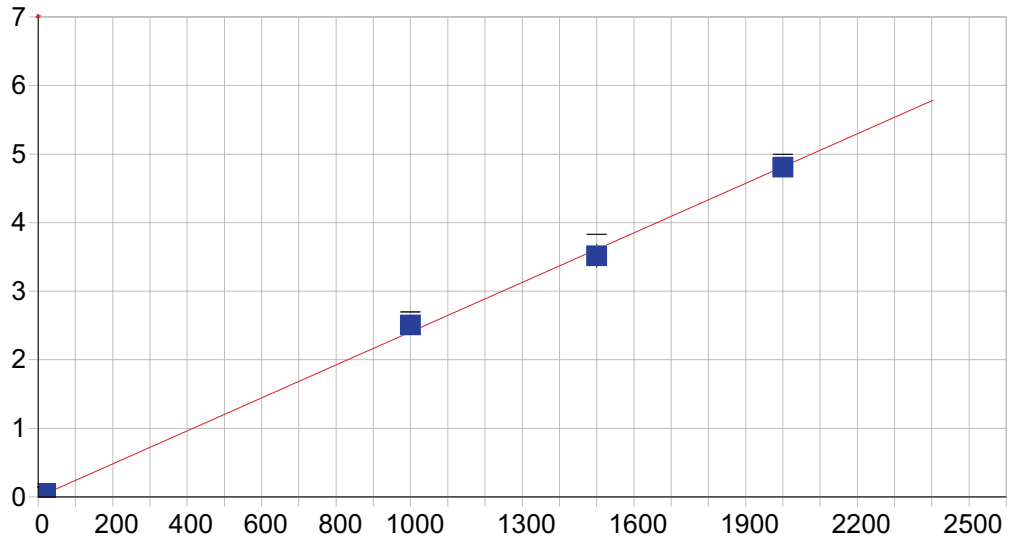

Be 313.042 {108}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000673	Re-Slope:	1.000000
A1 (Gain):	0.002406	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999698	Status:	OK.
Std Error of Est:	0.000344		
Predicted MDL:	0.015384		
Predicted MQL:	0.051280		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00046	-.000	.000	.00067	.000	1
S01 ISM-520	5.0000	5.2382	.238	4.76	.01333	.000	1
S02 ISM-521	20.000	20.629	.629	3.15	.05051	.001	1
S03 ISM-538	1000.0	1040.8	40.8	4.08	2.5074	.047	1
S04 ISM-523	1500.0	1460.5	-39.5	-2.64	3.5186	.168	1
S05 ISM-524	2000.0	1997.9	-2.09	-.104	4.8130	.041	1

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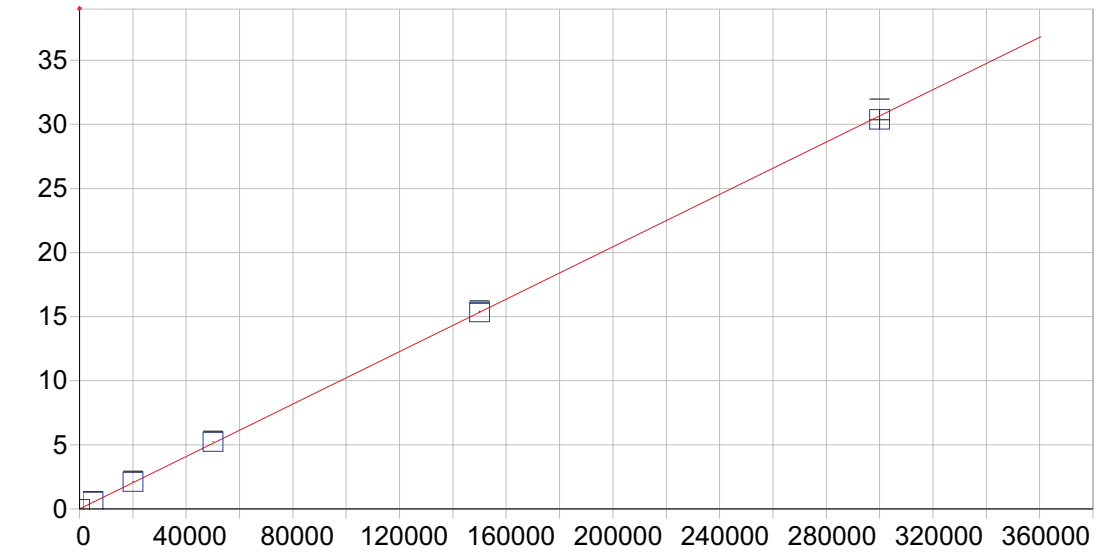

Ca 317.933 {106}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.008285	Re-Slope:	1.000000
A1 (Gain):	0.000102	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999888	Status:	OK.
Std Error of Est:	0.003035		
Predicted MDL:	8.768418		
Predicted MQL:	29.228060		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.68541	-.685	.000	.00822	.000	1
S01 ISM-520	5000.0	5408.6	409.	8.17	.56110	.009	1
S02 ISM-521	20000.	20744.	744.	3.72	2.1285	.038	1
S03 ISM-538	50000.	51266.	1270.	2.53	5.2482	.037	1
S06 ISM-463	150000.	150270.	266.	.178	15.367	.098	1
S07 ISM-464	300000.	297310.	-2690.	-.895	30.397	.817	1

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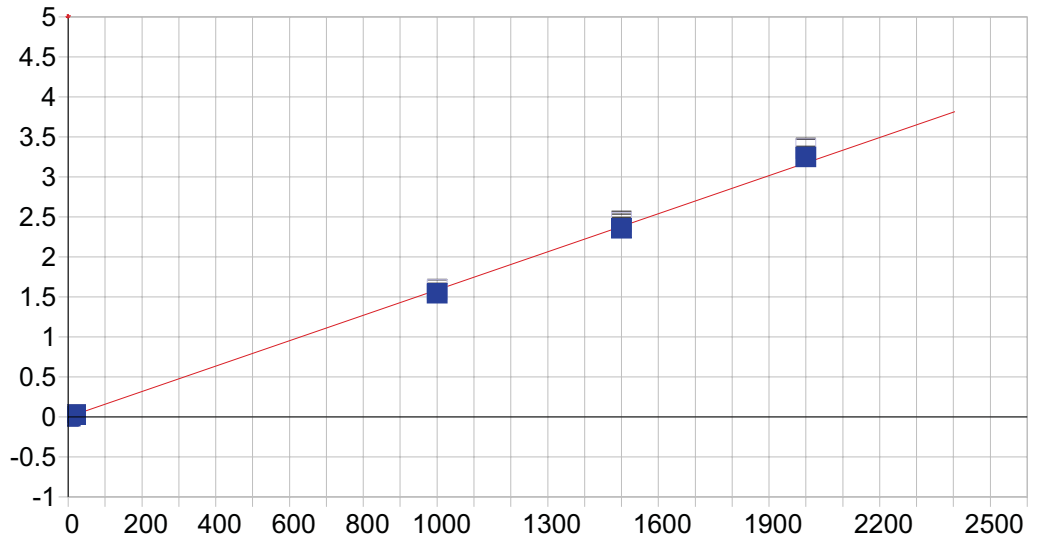

Cd 228.802 {447}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000587	Re-Slope:	1.000000
A1 (Gain):	0.001588	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999766	Status:	OK.
Std Error of Est:	0.000206		
Predicted MDL:	0.184314		
Predicted MQL:	0.614380		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00076	.001	.000	-.00059	.000	1
S01 ISM-520	5.0000	4.7815	-.219	-4.37	.00721	.000	1
S02 ISM-521	20.000	18.168	-1.83	-9.16	.02907	.000	1
S03 ISM-538	1000.0	971.86	-28.1	-2.81	1.5932	.004	1
S04 ISM-523	1500.0	1483.3	-16.7	-1.12	2.4304	.018	1
S05 ISM-524	2000.0	2046.9	46.9	2.35	3.3507	.008	1

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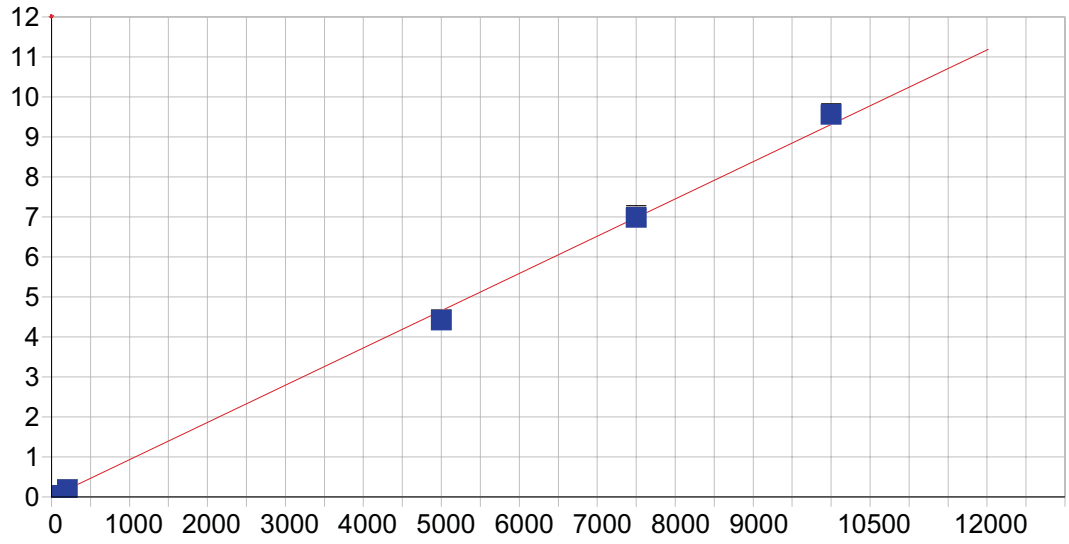

Co 228.616 {447}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000509	Re-Slope:	1.000000
A1 (Gain):	0.000931	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999543	Status:	OK.
Std Error of Est:	0.001162		
Predicted MDL:	0.183827		
Predicted MQL:	0.612756		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00505	.005	.000	.00051	.000	1
S01 ISM-520	50.000	49.497	-.503	-1.01	.04670	.001	1
S02 ISM-521	200.00	186.57	-13.4	-6.71	.17442	.000	1
S03 ISM-538	5000.0	4746.9	-253.	-5.06	4.4221	.009	1
S04 ISM-523	7500.0	7500.9	.872	.012	6.9872	.047	1
S05 ISM-524	10000.	10266.	266.	2.66	9.5628	.017	1

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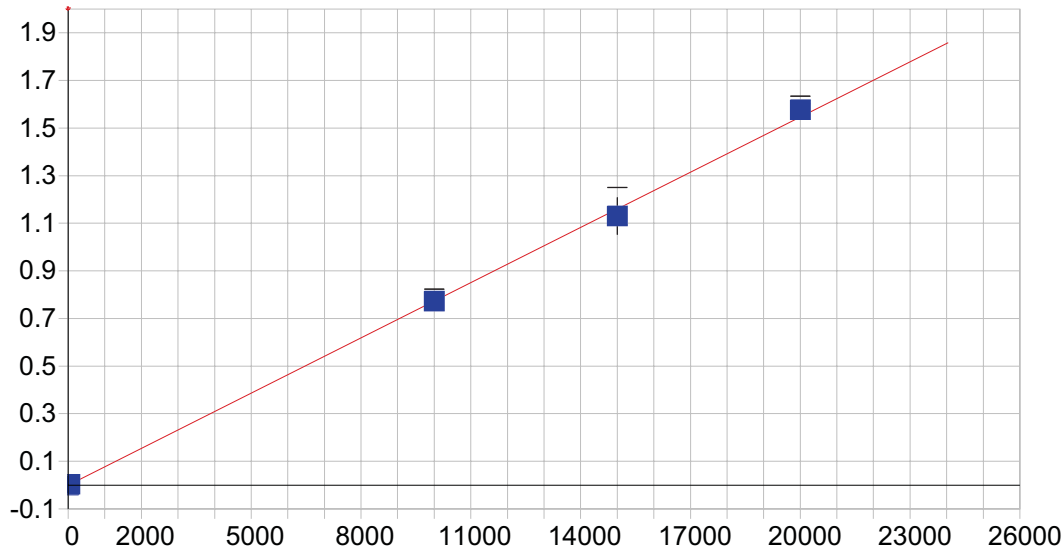

Cr 267.716 {126}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000049	Re-Slope:	1.000000
A1 (Gain):	0.000077	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999807	Status:	OK.
Std Error of Est:	0.000040		
Predicted MDL:	0.366620		
Predicted MQL:	1.222065		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00076	-.001	.000	-.00005	.000	1
S01 ISM-520	10.000	10.537	.537	5.37	.00077	.000	1
S02 ISM-521	40.000	41.177	1.18	2.94	.00314	.000	1
S03 ISM-538	10000.	9993.0	-7.02	-.070	.77282	.009	1
S04 ISM-523	15000.	14617.	-383.	-2.56	1.1304	.078	1
S05 ISM-524	20000.	20389.	389.	1.94	1.5768	.016	1

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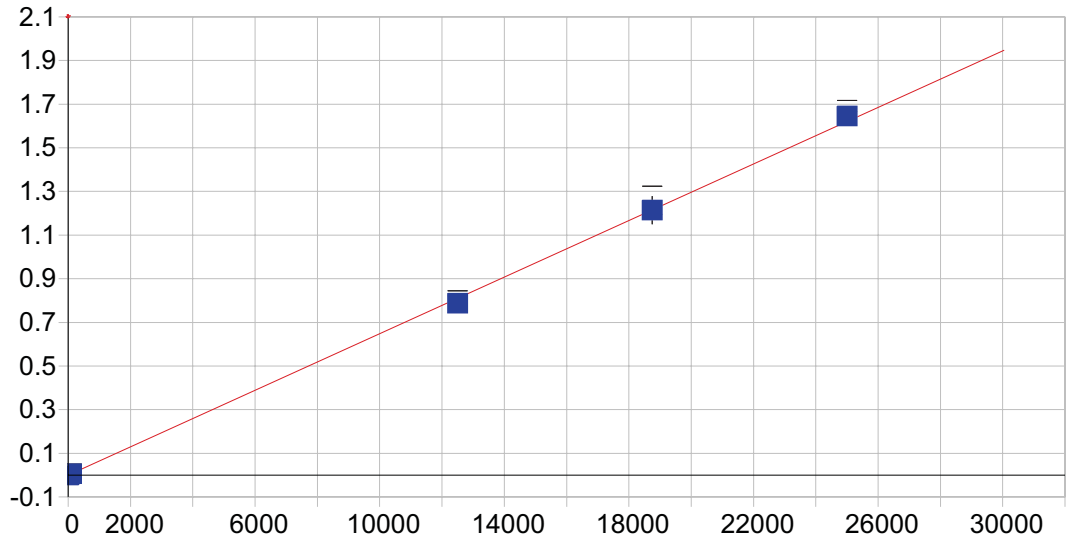

Cu 327.396 {103}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000126	Re-Slope:	1.000000
A1 (Gain):	0.000065	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999860	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.731332		
Predicted MQL:	2.437772		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00133	.001	.000	-.00013	.000	1
S01 ISM-520	25.000	24.765	-.235	-.940	.00149	.000	1
S02 ISM-521	100.00	97.064	-2.94	-2.94	.00621	.000	1
S03 ISM-538	12500.	12147.	-353.	-2.82	.78744	.012	1
S04 ISM-523	18750.	18729.	-20.7	-.111	1.2140	.064	1
S05 ISM-524	25000.	25377.	377.	1.51	1.6450	.026	1

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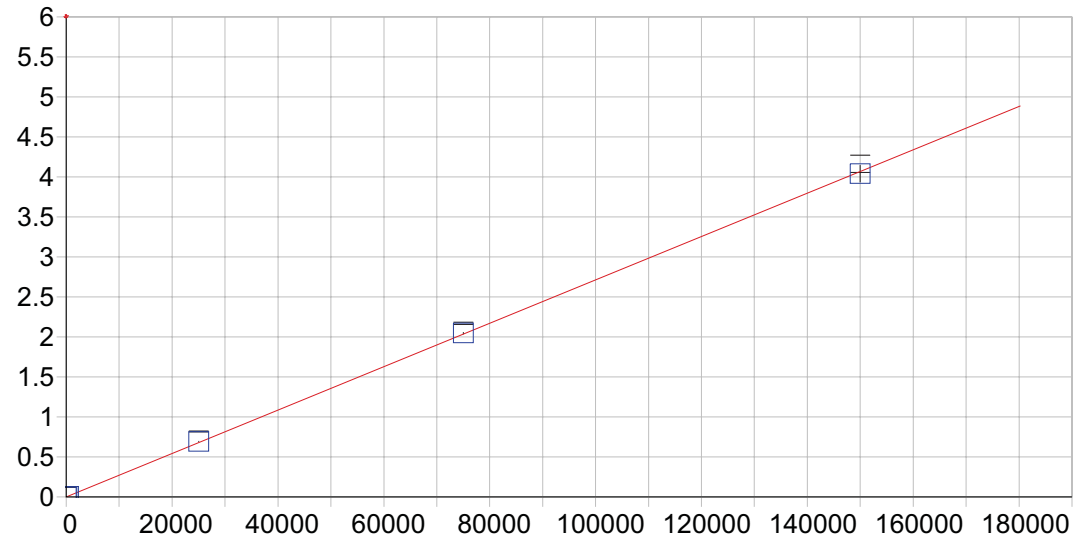


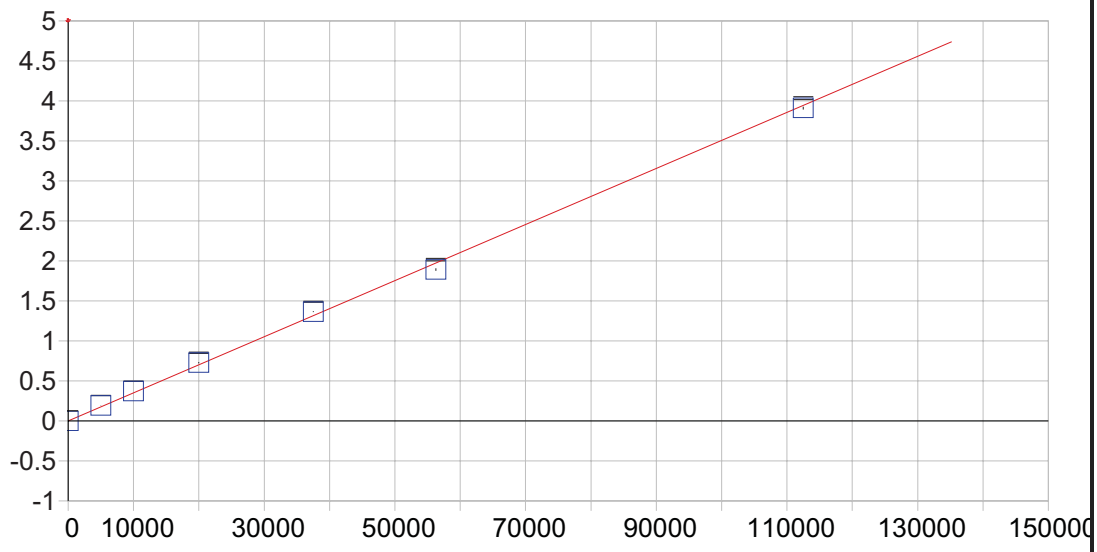
Fe 261.187 {129}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001136	Re-Slope:	1.000000
A1 (Gain):	0.000027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999954	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	18.398724		
Predicted MQL:	61.329080		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.01081	-.011	.000	.00114	.000	1
S01 ISM-520	100.00	107.74	7.74	7.74	.00406	.000	1
S02 ISM-521	400.00	403.64	3.64	.910	.01208	.000	1
S03 ISM-538	25000.	25556.	556.	2.23	.69398	.006	1
S06 ISM-463	75000.	75467.	467.	.622	2.0471	.013	1
S07 ISM-464	150000.	148970.	-1030.	-.690	4.0397	.107	1

PDF created with pdfFactory trial version www.pdffactory.com



K 766.490 { 44}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.001309	Re-Slope:	1.000000
A1 (Gain):	0.000035	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999457	Status:	OK.
Std Error of Est:	0.001499		
Predicted MDL:	71.953847		
Predicted MQL:	239.846158		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.91078	-.911	.000	.00128	.002	1
S02 ISM-521	20000.	20758.	758.	3.79	.72886	.009	1
S01 ISM-520	5000.0	5492.8	493.	9.86	.19383	.001	1
S03 ISM-538	37500.	38902.	1400.	3.74	1.3648	.006	1
S08 ISM-465	56250.	53986.	-2260.	-4.03	1.8935	.016	1
S06 ISM-463	112500.	111540.	-960.	-.853	3.9107	.017	1
S10 ISM-457	10000.	10571.	571.	5.71	.37181	.001	1

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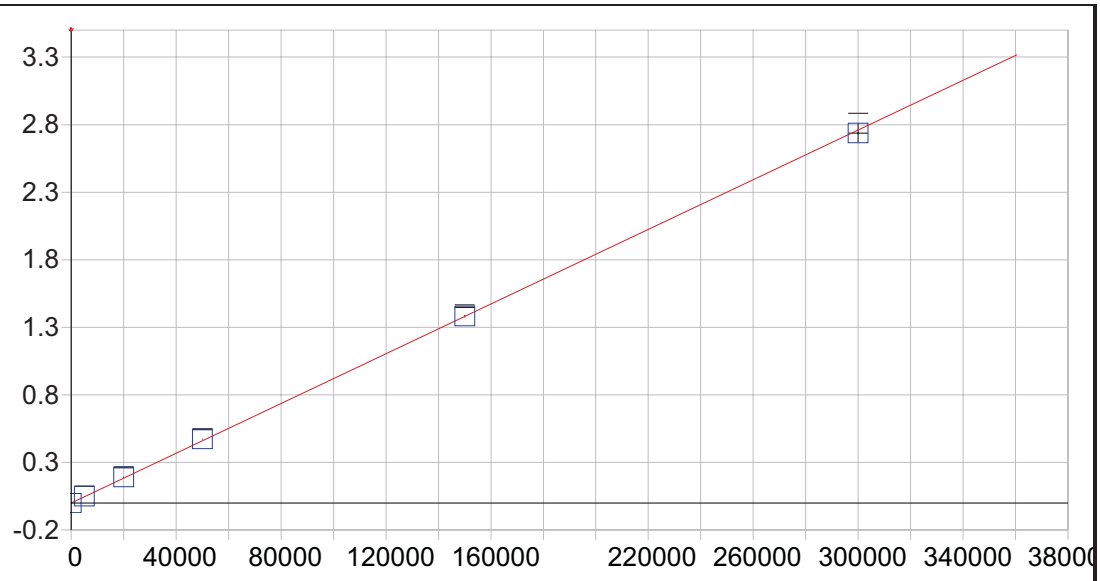


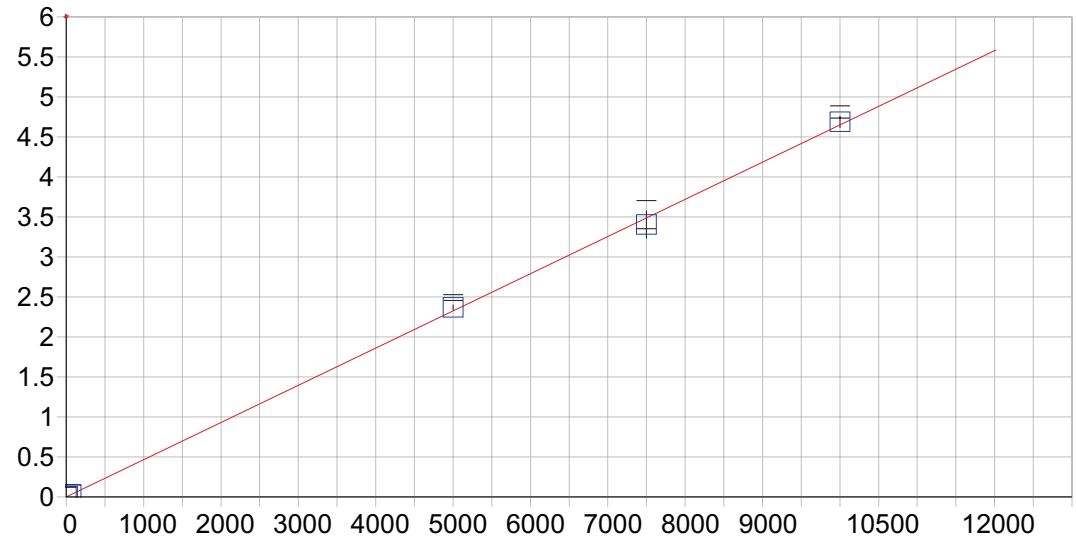
Mg 279.079 {121}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000032	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999895	Status:	OK.
Std Error of Est:	0.000265		
Predicted MDL:	49.465267		
Predicted MQL:	164.884223		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.67200	-.672	.000	-.00004	.000	1
S01 ISM-520	5000.0	5421.6	422.	8.43	.04985	.001	1
S02 ISM-521	20000.	20630.	630.	3.15	.18978	.003	1
S03 ISM-538	50000.	51283.	1280.	2.57	.47183	.004	1
S06 ISM-463	150000.	150210.	214.	.142	1.3821	.009	1
S07 ISM-464	300000.	297450.	-2550.	-.849	2.7369	.073	1

PDF created with pdfFactory trial version www.pdffactory.com



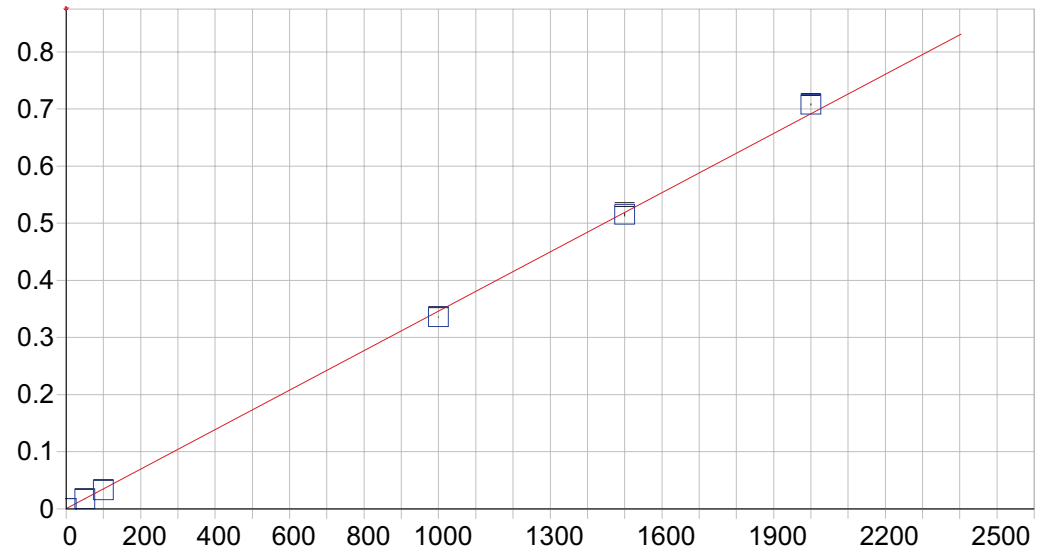
Mn 257.610 {131}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000036	Re-Slope:	1.000000
A1 (Gain):	0.000465	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999849	Status:	OK.
Std Error of Est:	0.000182		
Predicted MDL:	0.057590		
Predicted MQL:	0.191965		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00227	-.002	.000	.00003	.000	1
S01 ISM-520	15.000	16.470	1.47	9.80	.00769	.000	1
S02 ISM-521	60.000	63.025	3.03	5.04	.02934	.000	1
S03 ISM-538	5000.0	5090.1	90.1	1.80	2.3669	.035	1
S04 ISM-523	7500.0	7322.0	-178.	-2.37	3.4046	.177	1
S05 ISM-524	10000.	10083.	83.3	.833	4.6886	.076	1

PDF created with pdfFactory trial version www.pdffactory.com



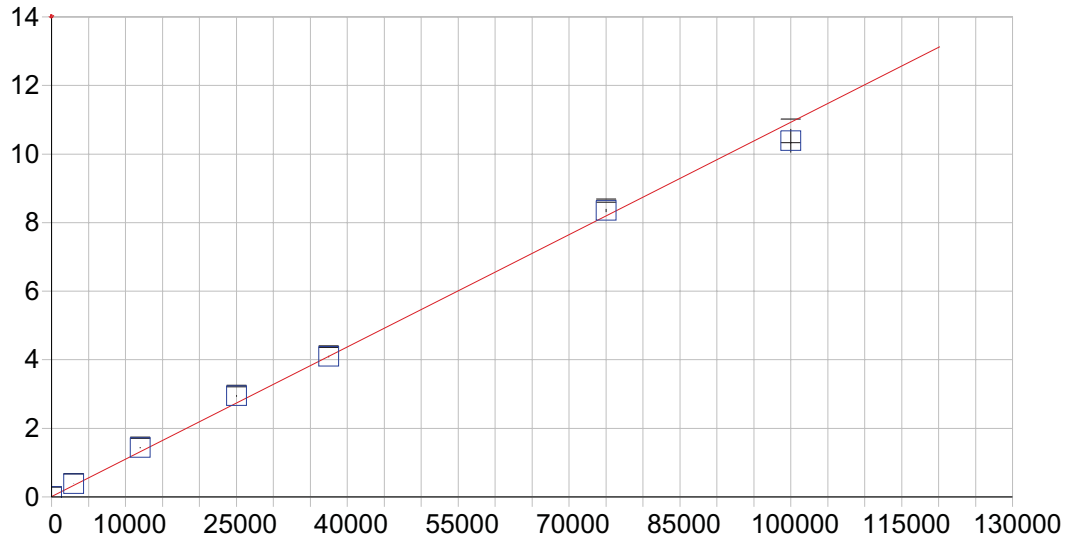
Mo 202.030 {467}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000601	Re-Slope:	1.000000
A1 (Gain):	0.000346	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999745	Status:	OK.
Std Error of Est:	0.000146		
Predicted MDL:	0.274018		
Predicted MQL:	0.913394		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00505	.005	.000	.00060	.000	1
S01 ISM-520	50.000	48.386	-1.61	-3.23	.01732	.000	1
S02 ISM-521	100.00	94.406	-5.59	-5.59	.03323	.000	1
S03 ISM-538	1000.0	970.71	-29.3	-2.93	.33608	.001	1
S04 ISM-523	1500.0	1490.0	-10.0	-.668	.51554	.003	1
S05 ISM-524	2000.0	2046.5	46.5	2.33	.70787	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



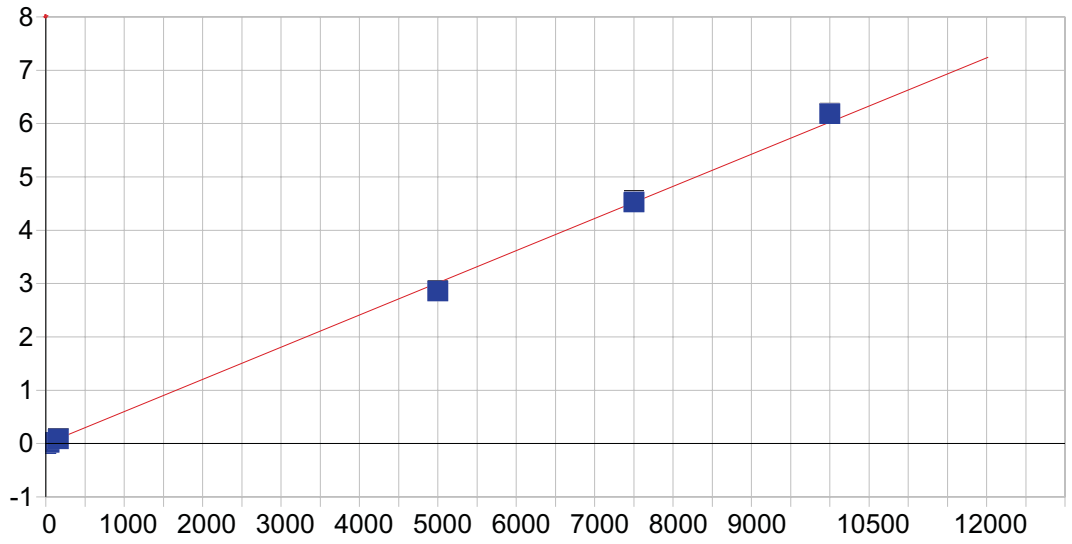
Na 589.592 { 57}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.004768	Re-Slope:	1.000000
A1 (Gain):	0.000109	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998792	Status:	OK.
Std Error of Est:	0.005529		
Predicted MDL:	28.053179		
Predicted MQL:	93.510595		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.91181	-.912	.000	.00467	.003	1
S01 ISM-520	3000.0	3492.5	493.	16.4	.38619	.006	1
S02 ISM-521	12000.	13127.	1130.	9.39	1.4384	.020	1
S03 ISM-538	25000.	26943.	1940.	7.77	2.9472	.022	1
S06 ISM-463	75000.	76452.	1450.	1.94	8.3541	.045	1
S08 ISM-465	37500.	37434.	-66.0	-.176	4.0929	.020	1
S09 ISM-456	100000.	95051.	-4950.	-4.95	10.385	.346	1

PDF created with pdfFactory trial version www.pdffactory.com



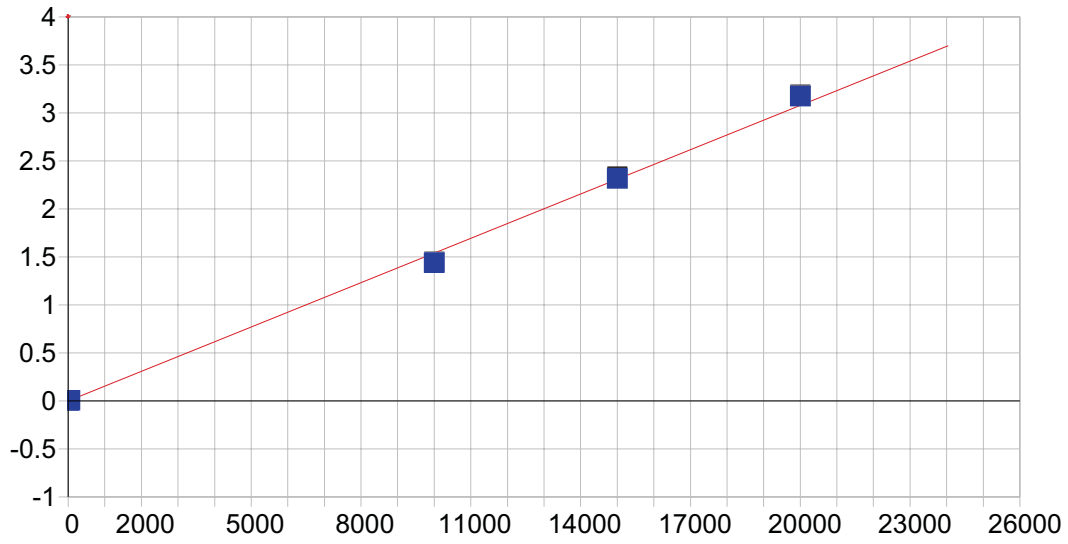
Ni 231.604 {445}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001084	Re-Slope:	1.000000
A1 (Gain):	0.000603	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999542	Status:	OK.
Std Error of Est:	0.000674		
Predicted MDL:	0.291964		
Predicted MQL:	0.973215		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00442	.004	.000	-.00108	.000	1
S01 ISM-520	40.000	39.300	-.700	-1.75	.02262	.001	1
S02 ISM-521	160.00	149.02	-11.0	-6.86	.08880	.000	1
S03 ISM-538	5000.0	4741.6	-258.	-5.17	2.8583	.006	1
S04 ISM-523	7500.0	7511.3	11.3	.151	4.5293	.029	1
S05 ISM-524	10000.	10259.	259.	2.59	6.1864	.007	1

PDF created with pdfFactory trial version www.pdffactory.com



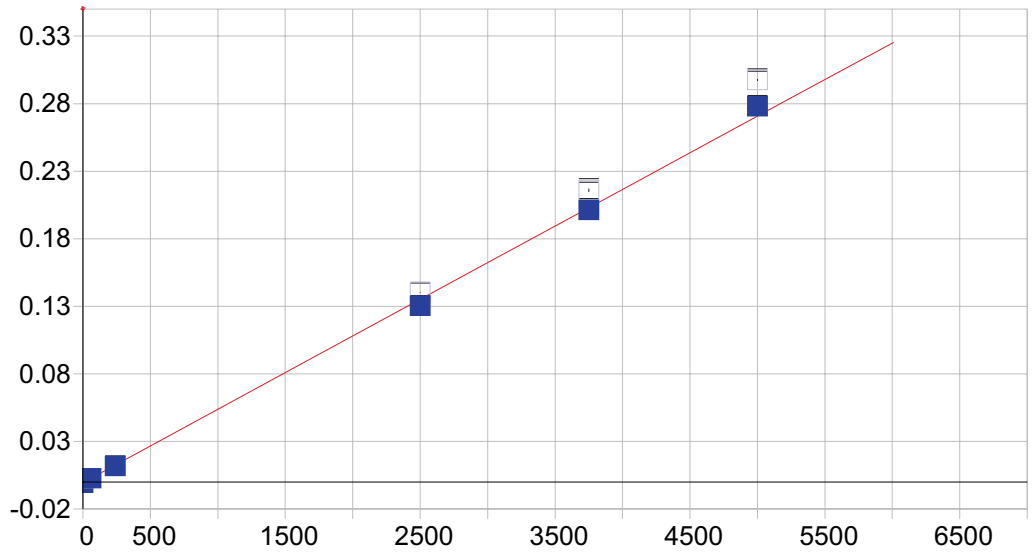
Pb 220.353 {453}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000449	Re-Slope:	1.000000
A1 (Gain):	0.000154	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999313	Status:	OK.
Std Error of Est:	0.000149		
Predicted MDL:	1.456764		
Predicted MQL:	4.855879		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00111	.001	.000	-.00045	.000	1
S01 ISM-520	10.000	10.160	.160	1.60	.00113	.000	1
S02 ISM-521	40.000	36.204	-3.80	-9.49	.00519	.000	1
S03 ISM-538	10000.	9346.9	-653.	-6.53	1.4431	.005	1
S04 ISM-523	15000.	15043.	42.7	.285	2.3174	.014	1
S05 ISM-524	20000.	20615.	615.	3.08	3.1760	.010	1

PDF created with pdfFactory trial version www.pdffactory.com



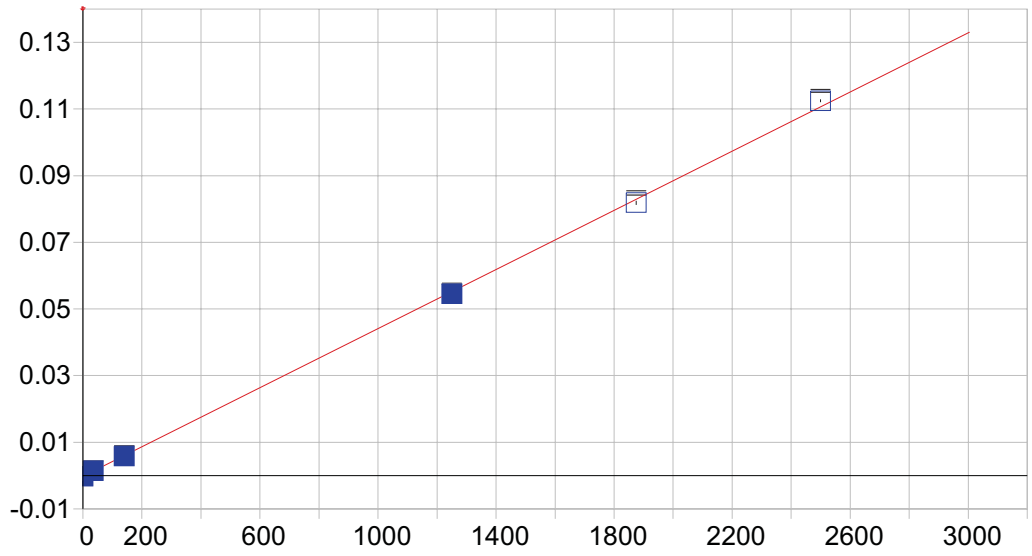
Sb 206.833 {463}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000474	Re-Slope:	1.000000
A1 (Gain):	0.000054	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999711	Status:	OK.
Std Error of Est:	0.000045		
Predicted MDL:	2.000439		
Predicted MQL:	6.668130		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00622	.006	.000	-.00047	.000	1
S01 ISM-520	60.000	58.162	-1.84	-3.06	.00267	.000	1
S02 ISM-521	240.00	226.44	-13.6	-5.65	.01181	.000	1
S03 ISM-538	2500.0	2413.5	-86.5	-3.46	.14013	.000	1
S04 ISM-523	3750.0	3717.5	-32.5	-.866	.21584	.001	1
S05 ISM-524	5000.0	5133.2	133.	2.66	.29752	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



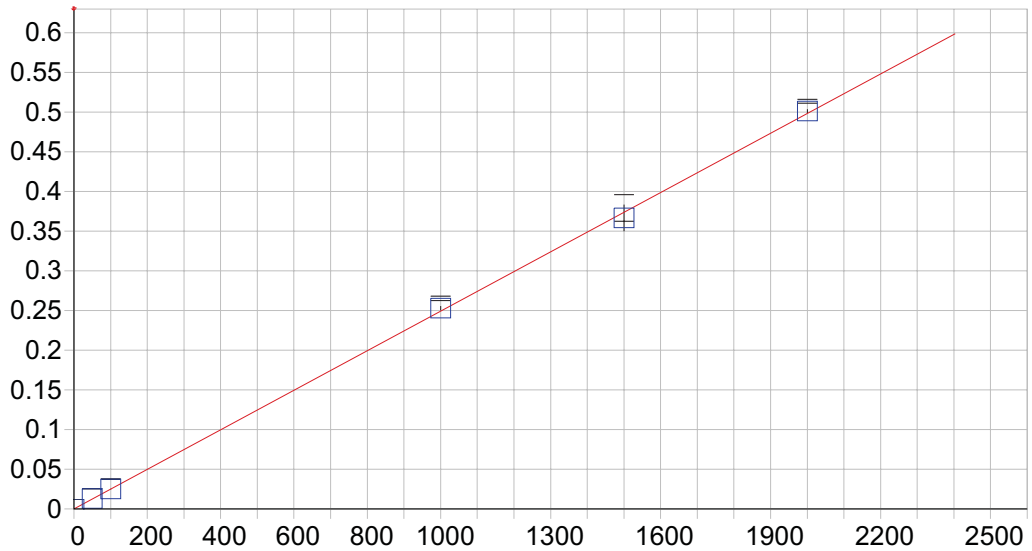
Se 196.090 {472}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000244	Re-Slope:	1.000000
A1 (Gain):	0.000044	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999881	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	2.001152		
Predicted MQL:	6.670506		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00071	-.001	.000	-.00024	.000	1
S01 ISM-520	35.000	36.951	1.95	5.57	.00140	.000	1
S02 ISM-521	140.00	136.21	-3.79	-2.71	.00580	.000	1
S03 ISM-538	1250.0	1235.1	-14.9	-1.19	.05456	.000	1
S04 ISM-523	1875.0	1850.7	-24.3	-1.30	.08185	.001	1
S05 ISM-524	2500.0	2541.0	41.0	1.64	.11248	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



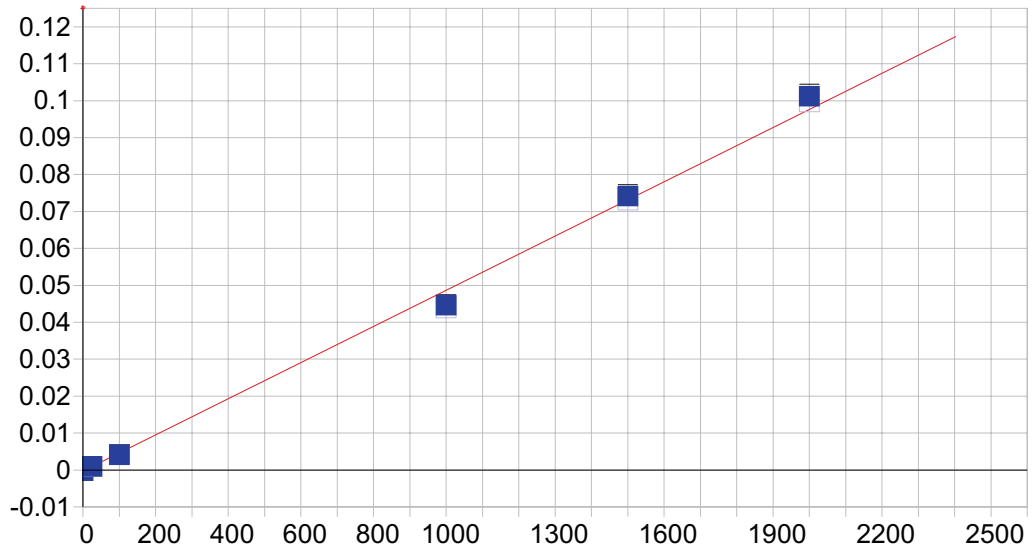
Ti 337.280 {100}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000128	Re-Slope:	1.000000
A1 (Gain):	0.000249	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999909	Status:	OK.
Std Error of Est:	0.000063		
Predicted MDL:	0.209525		
Predicted MQL:	0.698416		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00127	-.001	.000	.00013	.000	1
S01 ISM-520	50.000	50.972	.972	1.94	.01282	.000	1
S02 ISM-521	100.00	100.38	.375	.375	.02513	.000	1
S03 ISM-538	1000.0	1015.2	15.2	1.52	.25301	.003	1
S04 ISM-523	1500.0	1471.9	-28.1	-1.88	.36676	.017	1
S05 ISM-524	2000.0	2011.6	11.6	.581	.50121	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



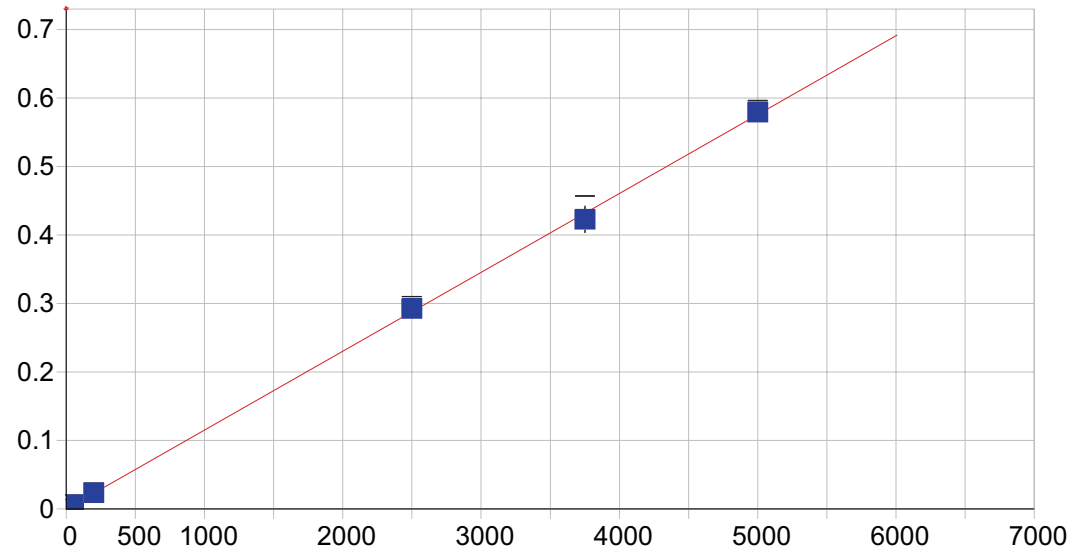
TI 190.856 {477}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000293	Re-Slope:	1.000000
A1 (Gain):	0.000049	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998801	Status:	OK.
Std Error of Est:	0.000031		
Predicted MDL:	1.370447		
Predicted MQL:	4.568155		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00393	.004	.000	-.00029	.000	1
S01 ISM-520	25.000	24.281	-.719	-2.87	.00087	.000	1
S02 ISM-521	100.00	90.464	-9.54	-9.54	.00405	.000	1
S03 ISM-538	1000.0	916.92	-83.1	-8.31	.04382	.000	1
S04 ISM-523	1500.0	1520.4	20.4	1.36	.07298	.000	1
S05 ISM-524	2000.0	2072.9	72.9	3.64	.09964	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



V 292.402 {115}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000067	Re-Slope:	1.000000
A1 (Gain):	0.000115	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999890	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.339749		
Predicted MQL:	1.132497		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00231	-.002	.000	.00007	.000	1
S01 ISM-520	50.000	51.798	1.80	3.60	.00601	.000	1
S02 ISM-521	200.00	201.50	1.50	.752	.02323	.000	1
S03 ISM-538	2500.0	2542.0	42.0	1.68	.29233	.003	1
S04 ISM-523	3750.0	3674.0	-76.0	-2.03	.42246	.020	1
S05 ISM-524	5000.0	5030.7	30.7	.614	.57846	.003	1

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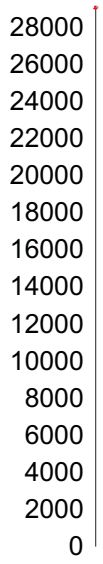
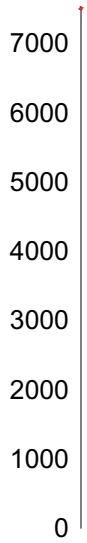


Y 224.306 {450}*

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

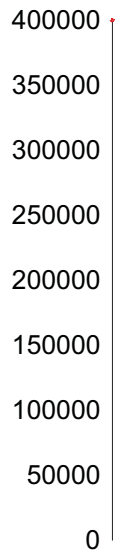
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	26496.	334.	1



Y 371.030 { 91}*

PDF created with pdfFactory trial version www.pdffactory.com

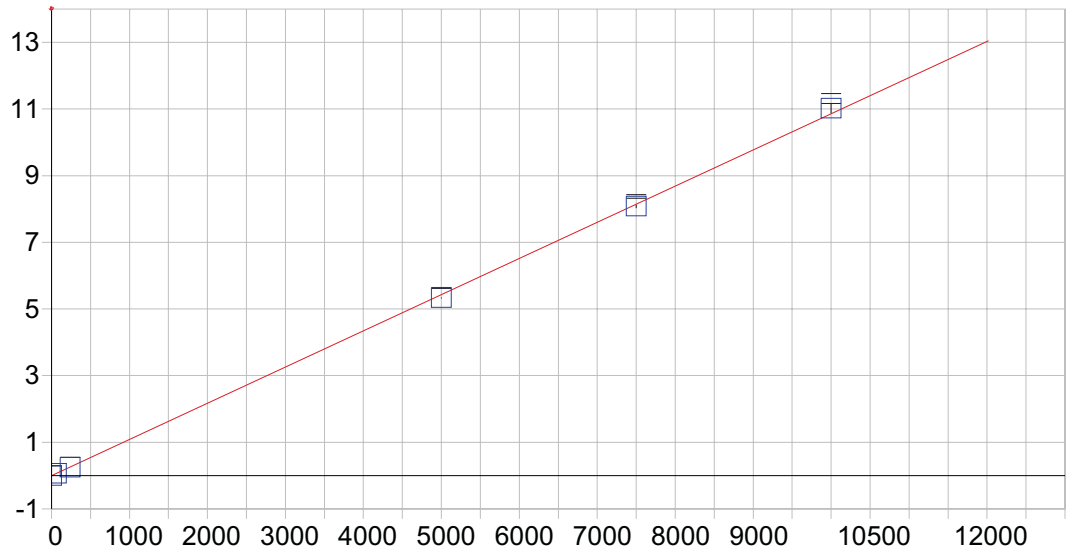
Date of Fit:	11/17/2015 10:55:24		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	6368.5	462.	1



Y 371.030 { 91}2*

Date of Fit:	11/17/2015 10:55:24		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	372340.	3580.	1

PDF created with pdfFactory trial version www.pdffactory.com



Zn 206.200 {463}

Date of Fit:	11/17/2015 10:55:24	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000176	Re-Slope:	1.000000
A1 (Gain):	0.001086	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999906	Status:	OK.
Std Error of Est:	0.000673		
Predicted MDL:	0.101694		
Predicted MQL:	0.338980		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00139	.001	.000	-.00017	.000	1
S01 ISM-520	60.000	60.984	.984	1.64	.06605	.002	1
S02 ISM-521	240.00	232.86	-7.14	-2.97	.25269	.000	1
S03 ISM-538	5000.0	4915.0	-85.0	-1.70	5.3370	.014	1
S04 ISM-523	7500.0	7443.5	-56.5	-.753	8.0827	.052	1
S05 ISM-524	10000.	10148.	148.	1.48	11.019	.152	1

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/16/2015 11:31:11 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00007	.00453	.00039	-.00424	.00067	.00822	-.0006
Stddev	.00003	.00033	.00002	.00117	.00003	.00033	.0002
%RSD	36.339	7.3461	4.7827	27.500	4.9522	4.0161	33.53
#1	.00009	.00415	.00041	-.00292	.00063	.00802	-.0008
#2	.00004	.00476	.00040	-.00469	.00070	.00860	-.0005
#3	.00009	.00469	.00037	-.00512	.00069	.00802	-.0005

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00051	-.00005	-.00013	.00114	.0013	-.0000	.00003
Stddev	.00004	.00002	.00003	.00046	.0021	.0001	.00001
%RSD	8.0839	40.341	22.904	40.794	166.4	274.2	20.156
#1	.00050	-.00004	-.00009	.00064	.0033	.0000	.00004
#2	.00048	-.00004	-.00014	.00156	.0014	.0000	.00003
#3	.00056	-.00007	-.00015	.00121	-.0009	-.0002	.00004

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00060	.00467	-.00108	-.00045	-.00047	-.00024	.0001
Stddev	.00007	.00263	.00007	.00017	.00010	.00007	.0000
%RSD	10.807	56.439	6.5377	38.309	21.571	29.331	21.60
#1	.00057	.00761	-.00116	-.00038	-.00046	-.00025	.0002
#2	.00068	.00389	-.00104	-.00065	-.00058	-.00017	.0001
#3	.00056	.00251	-.00105	-.00032	-.00038	-.00032	.0001

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Sample Name: S0 Acquired: 11/16/2015 11:31:11 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	-.00029	.00007	-.00017
Stddev	.00006	.00003	.00002
%RSD	22.151	48.408	13.154
#1	-.00026	.00007	-.00015
#2	-.00025	.00003	-.00019
#3	-.00037	.00010	-.00018
Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26496.	6368.5	372340.
Stddev	334.	462.2	3585.
%RSD	1.2611	7.2570	.96278
#1	26781.	6199.8	375910.
#2	26129.	6014.5	368740.
#3	26579.	6891.4	372360.

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Sample Name: S01 ISM-520 Acquired: 11/16/2015 11:35:58 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00097	.00625	.00113	.53732	.01333	.56110	.0072
Stddev	.00001	.00060	.00004	.00902	.00006	.00926	.0002
%RSD	1.2871	9.6103	3.7911	1.6778	.43341	1.6502	2.455
#1	.00096	.00662	.00118	.54429	.01334	.56612	.0073
#2	.00098	.00556	.00114	.54054	.01338	.56677	.0070
#3	.00098	.00657	.00109	.52714	.01327	.55041	.0073

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04670	.00077	.00149	.00406	.1938	.0499	.00769
Stddev	.00139	.00000	.00001	.00037	.0013	.0012	.00001
%RSD	2.9695	.16352	.71002	9.2032	.6698	2.357	.09417
#1	.04827	.00076	.00149	.00384	.1928	.0506	.00769
#2	.04565	.00077	.00150	.00449	.1953	.0505	.00770
#3	.04617	.00077	.00148	.00385	.1934	.0485	.00769

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01732	.38619	.02262	.00113	.00267	.00140	.0128
Stddev	.00042	.00569	.00081	.00004	.00009	.00008	.0000
%RSD	2.4159	1.4724	3.5631	3.8939	3.4761	5.7509	.3193
#1	.01780	.38843	.02351	.00118	.00273	.00149	.0128
#2	.01700	.39041	.02193	.00109	.00257	.00134	.0128
#3	.01717	.37972	.02243	.00113	.00273	.00136	.0129

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Sample Name: S01 ISM-520 Acquired: 11/16/2015 11:35:58 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00087	.00601	.06605
Stddev	.00006	.00002	.00184
%RSD	7.4267	.37479	2.7826
#1	.00093	.00602	.06814
#2	.00080	.00598	.06468
#3	.00088	.00603	.06532

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25892.	6180.5	367520.
Stddev	621.	48.8	1139.
%RSD	2.3976	.78911	.30978
#1	25183.	6124.7	366750.
#2	26340.	6201.9	368830.
#3	26152.	6215.0	366980.

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Sample Name: S02 ISM-521 Acquired: 11/16/2015 11:40:43 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00354	.01138	.00304	2.0787	.05051	2.1285	.0291
Stddev	.00011	.00065	.00003	.0326	.00069	.0382	.0003
%RSD	3.0450	5.7282	.97497	1.5668	1.3751	1.7923	1.085
#1	.00351	.01063	.00301	2.0413	.05021	2.0856	.0291
#2	.00345	.01180	.00303	2.0939	.05002	2.1413	.0294
#3	.00366	.01170	.00307	2.1009	.05131	2.1587	.0287

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.17442	.00314	.00621	.01208	.7289	.1898	.02934
Stddev	.00026	.00004	.00006	.00040	.0091	.0034	.00036
%RSD	.14709	1.3818	1.0075	3.3499	1.245	1.783	1.2223
#1	.17470	.00314	.00620	.01177	.7186	.1860	.02921
#2	.17420	.00309	.00616	.01254	.7322	.1908	.02907
#3	.17437	.00318	.00628	.01192	.7358	.1925	.02975

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03323	1.4384	.08880	.00519	.01181	.00580	.0251
Stddev	.00014	.0204	.00034	.00009	.00000	.00012	.0003
%RSD	.40866	1.4193	.38426	1.7984	.02668	2.0817	1.351
#1	.03337	1.4148	.08919	.00528	.01181	.00591	.0250
#2	.03322	1.4491	.08853	.00509	.01181	.00582	.0249
#3	.03310	1.4512	.08870	.00520	.01181	.00567	.0255

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Sample Name: S02 ISM-521 Acquired: 11/16/2015 11:40:43 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00405	.02323	.25269
Stddev	.00001	.00035	.00018
%RSD	.35698	1.4868	.07073
#1	.00403	.02309	.25286
#2	.00405	.02297	.25250
#3	.00406	.02362	.25270

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25669.	6034.9	357330.
Stddev	72.	85.8	4180.
%RSD	.28227	1.4217	1.1699
#1	25653.	6134.0	356210.
#2	25606.	5985.2	361960.
#3	25748.	5985.6	353830.

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Sample Name: S03 ISM-538 Acquired: 11/16/2015 11:45:28 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06695	.40678	.16479	26.086	2.5074	5.2482	1.593
Stddev	.00070	.00218	.00046	.180	.0471	.0367	.004
%RSD	1.0427	.53600	.27865	.69035	1.8765	.69836	.2360
#1	.06724	.40561	.16432	25.910	2.5563	5.2107	1.590
#2	.06745	.40544	.16483	26.077	2.5035	5.2499	1.593
#3	.06615	.40930	.16523	26.270	2.4625	5.2840	1.597

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.4221	.77282	.78744	.69398	1.365	.4718	2.3669
Stddev	.0088	.00866	.01174	.00626	.006	.0037	.0352
%RSD	.19856	1.1207	1.4912	.90188	.4395	.7804	1.4862
#1	4.4140	.78170	.79372	.68728	1.359	.4677	2.3270
#2	4.4208	.77234	.79471	.69498	1.364	.4747	2.3935
#3	4.4314	.76440	.77390	.69968	1.371	.4731	2.3801

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.33608	2.9472	2.8583	1.4431	.14013	.05456	.2530
Stddev	.00085	.0220	.0060	.0049	.00024	.00019	.0028
%RSD	.25256	.74505	.20870	.33654	.17245	.34232	1.112
#1	.33552	2.9291	2.8531	1.4391	.13989	.05437	.2540
#2	.33566	2.9410	2.8571	1.4418	.14013	.05456	.2552
#3	.33705	2.9716	2.8648	1.4485	.14037	.05474	.2498

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Sample Name: S03 ISM-538 Acquired: 11/16/2015 11:45:28 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.04382	.29233	5.3370
Stddev	.00017	.00324	.0136
%RSD	.39386	1.1093	.25408
#1	.04370	.29337	5.3250
#2	.04374	.29493	5.3343
#3	.04402	.28870	5.3517

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24314.	5992.6	350960.
Stddev	70.	102.2	2483.
%RSD	.28934	1.7057	.70751
#1	24381.	5876.1	348360.
#2	24319.	6067.2	351220.
#3	24241.	6034.5	353300.

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Sample Name: S04 ISM-523 Acquired: 11/16/2015 11:50:42 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09693	.24687	39.329	3.5186	2.430	6.9872	1.1304
Stddev	.00463	.00153	.446	.1682	.018	.0474	.0785
%RSD	4.7798	.62012	1.1346	4.7806	.7238	.67783	6.9411
#1	.09166	.24640	39.844	3.3250	2.424	6.9704	1.0399
#2	.09882	.24563	39.079	3.6286	2.417	6.9505	1.1726
#3	.10033	.24859	39.063	3.6023	2.450	7.0406	1.1788

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2140	3.4046	.51554	4.5293	2.3174	.21584	.08185
Stddev	.0643	.1769	.00330	.0286	.0145	.00137	.00061
%RSD	5.2961	5.1968	.64091	.63095	.62537	.63385	.74003
#1	1.1417	3.2021	.51425	4.5209	2.3131	.21532	.08163
#2	1.2360	3.4826	.51307	4.5059	2.3055	.21481	.08139
#3	1.2645	3.5292	.51929	4.5612	2.3335	.21739	.08254

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3668	.07298	.42246	8.0827
Stddev	.0168	.00047	.01977	.0517
%RSD	4.579	.64783	4.6795	.63962
#1	.3476	.07272	.39990	8.0719
#2	.3738	.07269	.43073	8.0372
#3	.3789	.07352	.43675	8.1389

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Sample Name: S04 ISM-523 Acquired: 11/16/2015 11:50:42 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25322.	6178.0	387320.
Stddev	202.	75.7	20489.
%RSD	.79592	1.2248	5.2898
#1	25245.	6098.4	410720.
#2	25551.	6186.7	378680.
#3	25170.	6249.0	372570.

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Sample Name: S05 ISM-524 Acquired: 11/16/2015 11:56:06 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.13346	.33861	52.145	4.8130	3.351	9.5628	1.5768
Stddev	.00058	.00045	1.721	.0405	.008	.0171	.0162
%RSD	.43301	.13361	3.2997	.84230	.2452	.17917	1.0292
#1	.13300	.33851	51.599	4.7667	3.345	9.5476	1.5918
#2	.13327	.33821	54.072	4.8303	3.347	9.5594	1.5596
#3	.13411	.33910	50.763	4.8421	3.360	9.5814	1.5791

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.6450	4.6886	.70787	6.1864	3.1760	.29752	.11248
Stddev	.0262	.0762	.00164	.0070	.0098	.00077	.00040
%RSD	1.5946	1.6245	.23121	.11262	.30827	.25794	.35170
#1	1.6221	4.7131	.70706	6.1816	3.1714	.29725	.11211
#2	1.6393	4.6032	.70680	6.1832	3.1693	.29692	.11243
#3	1.6736	4.7495	.70976	6.1944	3.1872	.29839	.11289

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.5012	.09964	.57846	11.019
Stddev	.0025	.00063	.00283	.152
%RSD	.4949	.63144	.48979	1.3769
#1	.4992	.09905	.57652	10.970
#2	.5004	.09956	.57715	10.898
#3	.5040	.10030	.58171	11.189

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Sample Name: S05 ISM-524 Acquired: 11/16/2015 11:56:06 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24370.	6113.5	373170.
Stddev	174.	238.9	2914.
%RSD	.71233	3.9081	.78091
#1	24472.	6188.5	375250.
#2	24469.	5846.0	374410.
#3	24170.	6305.9	369840.

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Sample Name: S06 ISM-463 Acquired: 11/16/2015 12:01:37 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	K_7664	Mg2790	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2236	15.367	2.0471	3.911	1.382	8.3541
Stddev	.0042	.098	.0134	.017	.009	.0452
%RSD	.34024	.63888	.65306	.4390	.6846	.54063
#1	1.2188	15.311	2.0366	3.908	1.375	8.3285
#2	1.2267	15.480	2.0621	3.929	1.393	8.4062
#3	1.2251	15.310	2.0424	3.895	1.378	8.3274

Int. Std.	Y_3710
Units	Cts/S
Avg	6133.6
Stddev	15.8
%RSD	.25822
#1	6124.3
#2	6151.9
#3	6124.5

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Sample Name: S07 ISM-464 Acquired: 11/16/2015 12:06:20 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	Mg2790
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.4509	30.397	4.0397	2.737
Stddev	.0659	.817	.1071	.073
%RSD	2.6866	2.6868	2.6511	2.668
#1	2.5268	31.335	4.1629	2.821
#2	2.4166	30.009	3.9869	2.703
#3	2.4092	29.846	3.9692	2.687

Int. Std.	Y_3710
Units	Cts/S
Avg	5798.6
Stddev	178.9
%RSD	3.0852
#1	5592.9
#2	5884.9
#3	5918.0

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Sample Name: S08 ISM-465 Acquired: 11/16/2015 12:11:03 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664	Na5895
IS Ref	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S
Avg	1.893	4.0929
Stddev	.016	.0200
%RSD	.8225	.48814
#1	1.899	4.1044
#2	1.876	4.0699
#3	1.905	4.1046

Int. Std.	Y_3710
Units	Cts/S
Avg	6166.7
Stddev	88.4
%RSD	1.4340
#1	6198.5
#2	6234.7
#3	6066.7

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Sample Name: S09 ISM-456 Acquired: 11/16/2015 12:15:47 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895
IS Ref	(Y_3710)
Units	Cts/S
Avg	10.385
Stddev	.346
%RSD	3.3357
#1	10.236
#2	10.781
#3	10.139
Int. Std.	Y_3710
Units	Cts/S
Avg	6065.5
Stddev	275.4
%RSD	4.5403
#1	6182.5
#2	5751.0
#3	6263.1

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Sample Name: S10 ISM-457 Acquired: 11/16/2015 12:20:36 Type: Cal
Method: CLP ISM Method ICP5 A(v17) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664
IS Ref	(Y_3710)
Units	Cts/S
Avg	.3718
Stddev	.0014
%RSD	.3784
#1	.3710
#2	.3710
#3	.3734
Int. Std.	Y_3710
Units	Cts/S
Avg	6316.9
Stddev	33.1
%RSD	.52420
#1	6317.6
#2	6283.5
#3	6349.7

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Sample Name: ICV ISM-514 Acquired: 11/16/2015 12:25:28 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	493.68	2542.6	975.98	492.92	513.23	10254.	464.5
Stddev	7.24	36.8	7.37	1.85	5.90	30.	3.3
%RSD	1.4675	1.4467	.75499	.37592	1.1492	.28809	.7087
#1	489.45	2500.2	969.90	494.73	506.65	10275.	461.2
#2	489.54	2562.5	973.86	491.03	514.98	10220.	464.4
#3	502.04	2565.2	984.17	492.99	518.05	10268.	467.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	470.85	502.88	493.18	5076.8	10420.	6148.	518.15
Stddev	3.53	6.59	7.09	44.7	62.	37.	7.62
%RSD	.74878	1.3108	1.4379	.88020	.5992	.5950	1.4712
#1	467.60	498.70	489.12	5113.3	10470.	6144.	513.77
#2	470.35	499.47	489.06	5026.9	10350.	6186.	513.74
#3	474.60	510.48	501.37	5090.1	10450.	6113.	526.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: ICV ISM-514 Acquired: 11/16/2015 12:25:28 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11719	10778.	474.42	905.25	945.88	955.09	-.1111
Stddev	.13182	46.	3.74	3.05	6.18	8.11	.1249
%RSD	112.48	.42233	.78893	.33646	.65292	.84881	112.4
#1	-.02725	10818.	471.27	902.22	940.07	947.21	.0170
#2	-.05581	10729.	473.44	905.24	945.19	954.64	-.1178
#3	-.26850	10788.	478.56	908.31	952.36	963.41	-.2326
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	954.11	500.52	968.38
Stddev	6.39	7.28	7.00
%RSD	.67010	1.4548	.72271
#1	947.52	496.73	961.92
#2	954.52	495.92	967.39
#3	960.29	508.92	975.82
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: ICV ISM-514 Acquired: 11/16/2015 12:25:28 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26268.	6165.0	371620.
Stddev	88.	74.1	4849.
%RSD	.33340	1.2026	1.3048
#1	26288.	6147.4	375700.
#2	26172.	6246.4	372900.
#3	26344.	6101.3	366260.

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Sample Name: ICB Acquired: 11/16/2015 12:30:19 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18816	-120.92	.05216	.43792	.03072	-10.606	.0209
Stddev	.21837	22.73	.74689	.37900	.00974	4.843	.1301
%RSD	116.05	18.797	1432.0	86.547	31.691	45.659	623.1
#1	.04957	-95.891	-.14984	.77998	.03981	-5.4224	.0170
#2	-.23422	-126.61	.87926	.03048	.02045	-15.014	.1529
#3	-.37982	-140.27	-.57296	.50329	.03190	-11.382	-.1072
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03176	.06618	-.44928	.06242	221.7	-38.28	.05724
Stddev	.10662	.35650	.45067	8.2617	15.7	57.58	.04132
%RSD	335.75	538.69	100.31	13237.	7.082	150.4	72.185
#1	-.15465	.17753	-.26100	5.8765	209.3	26.31	.09835
#2	.02339	.35371	-.12327	-9.3947	239.4	-56.91	.05763
#3	.03599	-.33271	-.96356	3.7054	216.5	-84.25	.01572
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICB Acquired: 11/16/2015 12:30:19 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.32442	27.704	.03628	-.26385	-.09609	2.6248	-.2567
Stddev	.14681	17.479	.31587	1.2133	1.7069	.5077	.1622
%RSD	45.253	63.091	870.66	459.87	1776.3	19.344	63.20
#1	.17094	33.153	-.19162	1.0568	1.8247	3.0536	-.0866
#2	.33882	8.1502	.39685	-1.3293	-.67379	2.7567	-.2737
#3	.46350	41.810	-.09639	-.51907	-1.4392	2.0642	-.4097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.2918	.20820	-.05834
Stddev	1.0584	.14567	.12966
%RSD	81.931	69.964	222.25
#1	2.4895	.27534	-.16316
#2	.48244	.04107	-.09850
#3	.90347	.30820	.08665
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICB Acquired: 11/16/2015 12:30:19 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26804.	6068.5	381070.
Stddev	134.	421.8	3106.
%RSD	.49849	6.9502	.81496
#1	26797.	6305.9	377520.
#2	26942.	6318.1	382400.
#3	26675.	5581.5	383290.

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Sample Name: ICSA ISM-519 Acquired: 11/16/2015 12:35:07 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13827	253200.	-.22875	7.5199	.18912	243780.	.8825
Stddev	.59727	633.	.44219	.3729	.01725	679.	.0250
%RSD	431.95	.24984	193.31	4.9591	9.1196	.27856	2.835
#1	-.54715	253930.	-.12987	7.1745	.20885	244470.	.8999
#2	.41484	252810.	-.71201	7.9153	.18164	243110.	.8538
#3	.54713	252860.	.15563	7.4699	.17688	243770.	.8938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.63704	59.164	-2.6616	97307.	525.7	251700.	17.664
Stddev	.17546	.708	.5404	388.	46.1	552.	.153
%RSD	27.543	1.1971	20.302	.39880	8.765	.2191	.86578
#1	-.72791	59.847	-2.0404	97716.	523.7	252300.	17.789
#2	-.74842	58.433	-3.0229	96944.	480.6	251200.	17.494
#3	-.43478	59.210	-2.9215	97259.	572.7	251700.	17.710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICSA ISM-519 Acquired: 11/16/2015 12:35:07 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8241	86.628	-.75905	-.01725	3.1803	-.61520	3.245
Stddev	.1847	24.398	.38998	.60243	1.6674	1.2504	.093
%RSD	10.125	28.164	51.377	3492.0	52.428	203.26	2.869
#1	2.0144	113.91	-.54503	.18614	4.2437	-.56831	3.138
#2	1.6456	66.908	-.52294	-.69505	4.0386	-1.8884	3.312
#3	1.8123	79.065	-1.2092	.45716	1.2587	.61112	3.284
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.5305	1.5214	1.2597
Stddev	.4531	.1993	.1102
%RSD	17.906	13.102	8.7438
#1	-2.2203	1.4396	1.3729
#2	-3.0504	1.3760	1.1529
#3	-2.3207	1.7487	1.2533
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICSA ISM-519 Acquired: 11/16/2015 12:35:07 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24556.	6095.5	341840.
Stddev	21.	71.7	4014.
%RSD	.08652	1.1765	1.1744
#1	24534.	6012.8	340550.
#2	24558.	6140.6	346340.
#3	24576.	6133.1	338620.

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Sample Name: ICSAB ISM-468 Acquired: 11/16/2015 12:39:51 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	216.73	252950.	100.08	496.62	589.68	240130.	965.0
Stddev	20.03	3573.	.24	7.89	42.78	3488.	1.8
%RSD	9.2412	1.4123	.24264	1.5886	7.2544	1.4527	.1838
#1	239.85	253850.	100.13	497.17	639.01	241420.	965.5
#2	204.66	249010.	99.814	488.47	567.28	236180.	963.0
#3	205.68	255980.	100.29	504.22	562.76	242790.	966.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	453.56	611.42	535.91	96377.	451.3	250400.	571.82
Stddev	.76	58.09	51.00	1485.	42.0	3750.	53.79
%RSD	.16844	9.5014	9.5163	1.5410	9.319	1.498	9.4068
#1	453.67	678.47	594.72	96890.	482.9	251300.	633.89
#2	452.74	576.05	503.84	94704.	467.3	246300.	538.89
#3	454.26	579.75	509.18	97538.	403.6	253700.	542.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICSAB ISM-468 Acquired: 11/16/2015 12:39:51 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9860	84.355	907.54	43.356	572.28	47.282	3.458
Stddev	.3203	18.845	1.75	1.717	1.81	2.075	.511
%RSD	16.130	22.341	.19265	3.9597	.31552	4.3896	14.77
#1	1.6251	90.045	906.71	42.615	570.61	45.502	4.042
#2	2.0961	99.701	906.35	45.319	572.03	46.783	3.243
#3	2.2367	63.321	909.54	42.134	574.20	49.562	3.091
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	85.970	533.42	942.43
Stddev	.949	50.58	1.61
%RSD	1.1037	9.4830	.17079
#1	87.057	591.79	942.40
#2	85.307	502.35	940.83
#3	85.546	506.12	944.05
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICSAB ISM-468 Acquired: 11/16/2015 12:39:51 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24172.	6253.5	323800.
Stddev	66.	69.2	27280.
%RSD	.27291	1.1069	8.4249
#1	24159.	6257.2	292300.
#2	24243.	6320.9	339330.
#3	24113.	6182.6	339770.

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Sample Name: CCV ISM-515 Acquired: 11/16/2015 12:44:40 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	734.48	50573.	2477.4	9695.8	1085.9	49604.	959.2
Stddev	12.07	771.	2.8	101.0	14.4	539.	.3
%RSD	1.6432	1.5254	.11413	1.0414	1.3294	1.0859	.0296
#1	731.05	50519.	2478.3	9704.0	1082.1	49597.	959.5
#2	747.90	51370.	2479.7	9792.4	1101.8	50145.	959.0
#3	724.50	49830.	2474.3	9591.0	1073.7	49068.	959.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4723.7	10282.	12446.	24786.	37370.	49270.	5057.4
Stddev	3.1	233.	195.	238.	398.	587.	65.2
%RSD	.06645	2.2623	1.5653	.96017	1.065	1.190	1.2883
#1	4724.7	10333.	12459.	24760.	37370.	49060.	5103.8
#2	4726.2	10485.	12634.	25036.	37770.	49930.	5085.4
#3	4720.2	10028.	12245.	24562.	36980.	48820.	4982.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV ISM-515 Acquired: 11/16/2015 12:44:40 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	969.49	25786.	4758.8	9201.4	2407.7	1224.1	996.9
Stddev	1.26	242.	3.1	2.8	6.6	.6	15.9
%RSD	.12962	.93700	.06545	.03008	.27495	.05256	1.595
#1	968.50	25767.	4758.3	9202.8	2409.7	1223.8	992.3
#2	970.90	26036.	4762.1	9203.2	2400.3	1224.9	1015.
#3	969.06	25554.	4756.0	9198.2	2413.0	1223.7	983.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	904.02	2525.1	4825.8
Stddev	1.98	42.0	3.3
%RSD	.21893	1.6624	.06941
#1	905.62	2514.0	4828.7
#2	904.63	2571.5	4826.5
#3	901.81	2489.8	4822.1
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV ISM-515 Acquired: 11/16/2015 12:44:40 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25113.	6339.7	361620.
Stddev	57.	88.6	5845.
%RSD	.22553	1.3982	1.6163
#1	25052.	6313.5	361280.
#2	25123.	6267.1	355960.
#3	25163.	6438.5	367630.

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Sample Name: CCB Acquired: 11/16/2015 12:49:54 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.85974	-82.397	.62713	.44686	.01746	-11.837	.0651
Stddev	.28755	51.899	.09215	.47348	.01367	7.122	.0381
%RSD	33.446	62.986	14.694	105.96	78.275	60.163	58.54
#1	-.52799	-135.07	.56508	.36165	.03313	-8.3955	.1045
#2	-1.0373	-80.821	.58330	.02177	.00800	-7.0905	.0625
#3	-1.0139	-31.304	.73302	.95716	.01126	-20.026	.0284
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11405	.06364	.27236	-35.566	123.6	-14.32	.01949
Stddev	.16486	.22993	.34185	3.422	46.9	72.77	.03658
%RSD	144.55	361.32	125.52	9.6213	37.93	508.2	187.68
#1	-.18881	.21856	.33784	-32.148	71.01	8.641	-.00032
#2	-.22829	-.20056	.57673	-38.992	161.0	-95.80	.06170
#3	.07495	.17291	-.09750	-35.558	138.8	44.20	-.00291
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB Acquired: 11/16/2015 12:49:54 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0689	25.081	-.06757	.05876	.25542	1.7681	-.1718
Stddev	.3288	6.217	.06571	1.4657	.90543	1.2058	.1107
%RSD	15.893	24.787	97.246	2494.6	354.50	68.201	64.41
#1	2.2561	32.110	-.08004	1.7336	-.72299	.75644	-.0619
#2	2.2615	20.307	.00348	-.98962	1.0638	3.1024	-.1704
#3	1.6893	22.824	-.12616	-.56774	.42547	1.4453	-.2832
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.05615	.32059	-.04320
Stddev	.93692	.24845	.10456
%RSD	1668.7	77.497	242.05
#1	-.10316	.55990	-.00981
#2	.90339	.33795	-.16037
#3	-.96868	.06392	.04059
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB Acquired: 11/16/2015 12:49:54 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27111.	6355.9	386380.
Stddev	104.	48.0	1437.
%RSD	.38378	.75535	.37186
#1	27077.	6308.1	384760.
#2	27029.	6355.5	387480.
#3	27228.	6404.1	386910.

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Sample Name: QQ89300-001 Acquired: 11/16/2015 12:54:42 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30313	-85.175	-.23051	1.2382	.03309	147.68	.0250
Stddev	.07985	40.960	.39310	.4290	.00168	2.93	.1843
%RSD	26.342	48.089	170.54	34.646	5.0784	1.9856	736.4
#1	-.28375	-51.111	.05876	1.7326	.03142	144.57	.2378
#2	-.23476	-130.62	-.07221	1.0173	.03478	150.39	-.0822
#3	-.39089	-73.792	-.67807	.96469	.03307	148.07	-.0806
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07112	.33190	1.1576	32.946	157.9	23.82	.55952
Stddev	.15111	.12646	.4792	8.372	24.5	38.29	.03768
%RSD	212.47	38.103	41.398	25.410	15.49	160.7	6.7337
#1	.01895	.23939	1.6068	24.123	185.6	-18.93	.59695
#2	-.24558	.47600	.65314	40.778	148.6	35.43	.52160
#3	.01326	.28029	1.2127	33.939	139.4	54.96	.56003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89300-001 Acquired: 11/16/2015 12:54:42 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.57956	56.367	.25587	.14652	1.5573	2.4265	.2482
Stddev	.15743	32.497	.16229	.17275	1.1388	1.2843	.0981
%RSD	27.164	57.653	63.426	117.90	73.124	52.926	39.53
#1	.63421	67.495	.09781	-.03455	2.6321	1.1075	.2964
#2	.70238	19.767	.42209	.16457	1.6760	2.4990	.1353
#3	.40209	81.838	.24772	.30953	.36385	3.6729	.3128
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.59787	.56762	1.0456
Stddev	.65586	.22350	.0239
%RSD	109.70	39.374	2.2906
#1	-.14805	.33499	1.0299
#2	.85746	.78069	1.0731
#3	1.0842	.58719	1.0337
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89300-001 Acquired: 11/16/2015 12:54:42 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27975.	6805.0	391340.
Stddev	87.	87.3	1580.
%RSD	.31205	1.2834	.40366
#1	28059.	6816.6	392470.
#2	27885.	6886.0	392030.
#3	27981.	6712.5	389540.

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Sample Name: QQ89300-002 Acquired: 11/16/2015 12:59:30 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.900	371.07	19.888	379.39	10.200	10066.	8.938
Stddev	.420	13.11	.743	9.15	.159	239.	.029
%RSD	2.2226	3.5329	3.7366	2.4128	1.5632	2.3766	.3193
#1	18.486	384.13	20.730	372.79	10.056	9890.2	8.951
#2	18.887	371.16	19.612	375.53	10.173	9970.2	8.905
#3	19.326	357.91	19.322	389.84	10.372	10339.	8.957
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92.334	20.261	49.502	231.34	9903.	9913.	31.105
Stddev	.177	.244	.715	24.29	249.	176.	.492
%RSD	.19135	1.2023	1.4441	10.501	2.513	1.777	1.5820
#1	92.425	20.055	48.676	214.47	9746.	9798.	30.644
#2	92.130	20.197	49.920	220.35	9774.	9826.	31.048
#3	92.446	20.530	49.908	259.18	10190.	10120.	31.623
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89300-002 Acquired: 11/16/2015 12:59:30 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12823	10478.	73.808	17.090	111.60	67.847	.4133
Stddev	.03028	231.	.298	.542	1.20	.393	.0425
%RSD	23.616	2.2031	.40432	3.1702	1.0788	.57898	10.28
#1	.12226	10345.	74.151	16.579	110.26	68.253	.4577
#2	.16105	10345.	73.665	17.033	112.59	67.468	.3729
#3	.10138	10745.	73.608	17.658	111.95	67.819	.4094
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	44.369	96.640	111.29
Stddev	1.902	1.228	.26
%RSD	4.2868	1.2705	.23581
#1	45.024	95.435	111.59
#2	42.226	96.594	111.14
#3	45.856	97.890	111.13
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89300-002 Acquired: 11/16/2015 12:59:30 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27004.	6572.9	386800.
Stddev	197.	134.4	6620.
%RSD	.73060	2.0448	1.7116
#1	26862.	6704.8	390930.
#2	27229.	6577.9	390300.
#3	26920.	6436.1	379160.

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Sample Name: QJ23009-001 Acquired: 11/16/2015 13:04:16 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LL6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.88074	8145.7	5.3750	20.165	.52256	52925.	.2634
Stddev	.05066	159.1	.6178	.399	.00130	449.	.0334
%RSD	5.7523	1.9526	11.494	1.9789	.24901	.84863	12.67
#1	-.83106	8083.3	6.0354	20.441	.52117	52968.	.2290
#2	-.93233	8027.4	5.2786	19.708	.52374	52455.	.2957
#3	-.87883	8326.5	4.8111	20.348	.52278	53350.	.2655
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.7348	19.817	16.297	13658.	1281.	11940.	153.32
Stddev	.1309	.348	.070	148.	93.	104.	2.19
%RSD	2.7643	1.7575	.42913	1.0842	7.285	.8700	1.4304
#1	4.8612	20.191	16.372	13632.	1208.	11930.	153.56
#2	4.5998	19.757	16.233	13524.	1250.	11850.	155.38
#3	4.7434	19.502	16.287	13817.	1387.	12060.	151.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ23009-001 Acquired: 11/16/2015 13:04:16 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LL6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5766	259.43	19.890	6.2259	.84480	2.9354	445.1
Stddev	.1636	7.09	.159	.5157	2.8591	1.7185	6.6
%RSD	10.379	2.7327	.80102	8.2830	338.43	58.544	1.477
#1	1.6417	265.52	19.949	6.8090	3.5043	.96918	445.5
#2	1.6977	261.13	19.710	5.8297	-2.1790	4.1502	451.4
#3	1.3904	251.65	20.011	6.0389	1.2091	3.6869	438.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.40774	26.989	45.388
Stddev	.34107	.225	.047
%RSD	83.650	.83376	.10358
#1	-.66845	26.997	45.365
#2	-.53303	27.210	45.357
#3	-.02174	26.760	45.442
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-001 Acquired: 11/16/2015 13:04:16 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LL6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26793.	6467.4	376740.
Stddev	25.	67.5	4788.
%RSD	.09322	1.0436	1.2708
#1	26781.	6433.2	378260.
#2	26821.	6545.1	371380.
#3	26776.	6423.8	380580.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.12%	101.55%	101.18%
Range			

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Sample Name: QJ23009-002 Acquired: 11/16/2015 13:09:03 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LL7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.76344	7934.5	5.0681	32.405	.45077	282300.	.3488
Stddev	.63707	133.6	.2277	.256	.01874	529.	.0823
%RSD	83.447	1.6839	4.4926	.78993	4.1584	.18740	23.60
#1	-.14254	7798.1	5.1389	32.192	.44199	281900.	.4434
#2	-.73225	7940.3	4.8135	32.333	.43801	282090.	.3096
#3	-1.4155	8065.1	5.2520	32.689	.47229	282900.	.2935
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.8435	25.453	16.977	23912.	1525.	39290.	334.67
Stddev	.1324	.217	.306	103.	59.	178.	2.18
%RSD	1.9340	.85384	1.8027	.43087	3.894	.4536	.65189
#1	6.7427	25.634	17.168	23797.	1508.	39420.	337.14
#2	6.7943	25.212	17.140	23996.	1591.	39080.	333.02
#3	6.9934	25.514	16.624	23942.	1476.	39350.	333.86
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23009-002 Acquired: 11/16/2015 13:09:03 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LL7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4103	385.32	22.430	8.0376	-1.0001	4.7893	832.9
Stddev	.2134	11.32	.201	1.5313	1.1970	.8442	5.7
%RSD	15.128	2.9373	.89533	19.051	119.69	17.628	.6847
#1	1.4157	393.48	22.611	6.5002	-.75875	5.6136	839.4
#2	1.6210	372.40	22.214	9.5626	.05783	3.9264	829.0
#3	1.1944	390.07	22.466	8.0499	-2.2993	4.8278	830.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.39636	50.360	82.644
Stddev	.83470	.457	.223
%RSD	210.59	.90828	.26947
#1	.56716	50.784	82.415
#2	-.89910	50.422	82.658
#3	-.85714	49.875	82.860
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-002 Acquired: 11/16/2015 13:09:03 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LL7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26403.	6538.0	374470.
Stddev	158.	71.4	2331.
%RSD	.59785	1.0921	.62258
#1	26567.	6534.8	372010.
#2	26252.	6611.0	376640.
#3	26389.	6468.3	374750.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.647%	102.66%	100.57%
Range			

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Sample Name: QJ23009-003 Acquired: 11/16/2015 13:13:47 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LN6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.95012	16634.	9.2432	61.800	.86761	50686.	.3151
Stddev	.25914	92.	1.7778	.158	.02960	65.	.1565
%RSD	27.274	.55381	19.233	.25621	3.4120	.12804	49.68
#1	-.66479	16557.	7.7906	61.766	.89317	50612.	.1473
#2	-1.0147	16736.	11.226	61.662	.83517	50733.	.4571
#3	-1.1708	16609.	8.7133	61.973	.87448	50714.	.3409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.9235	30.643	32.952	24017.	2071.	19880.	210.12
Stddev	.2397	.468	.269	106.	25.	34.	4.47
%RSD	3.4620	1.5275	.81681	.43994	1.185	.1733	2.1260
#1	6.6468	30.963	33.236	23896.	2075.	19890.	214.91
#2	7.0577	30.105	32.920	24090.	2044.	19850.	206.07
#3	7.0661	30.860	32.701	24065.	2093.	19920.	209.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23009-003 Acquired: 11/16/2015 13:13:47 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LN6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.7124	401.41	38.381	11.568	1.2659	3.7590	663.3
Stddev	.2522	6.76	.805	.674	3.8038	.1656	13.8
%RSD	9.2996	1.6833	2.0970	5.8298	300.48	4.4065	2.074
#1	2.5157	408.08	37.490	12.066	2.8802	3.8882	678.2
#2	2.9968	394.57	39.056	10.800	3.9963	3.8165	651.2
#3	2.6248	401.58	38.596	11.836	-3.0788	3.5723	660.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.02466	40.373	90.398
Stddev	.33571	.867	1.860
%RSD	1361.3	2.1482	2.0572
#1	.37843	41.292	88.347
#2	-.01497	39.569	91.976
#3	-.28948	40.257	90.869
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-003 Acquired: 11/16/2015 13:13:47 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LN6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27492.	6839.9	381140.
Stddev	574.	65.2	9068.
%RSD	2.0888	.95331	2.3793
#1	28112.	6803.5	370690.
#2	26979.	6915.2	386910.
#3	27384.	6801.1	385830.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.76%	107.40%	102.37%
Range			

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Sample Name: QJ23009-004 Acquired: 11/16/2015 13:18:33 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LN7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1144	5913.2	2.5704	27.925	.41217	125360.	.2169
Stddev	.2317	114.7	1.0661	.299	.01244	236.	.0223
%RSD	20.789	1.9393	41.475	1.0725	3.0186	.18799	10.30
#1	-.93149	6044.2	2.5261	27.968	.42376	125520.	.2187
#2	-1.3749	5864.6	1.5272	28.201	.41373	125480.	.2383
#3	-1.0368	5830.9	3.6579	27.606	.39902	125090.	.1937
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.5090	29.323	14.964	18255.	1292.	16790.	184.29
Stddev	.1624	.555	.236	56.	47.	9.	2.20
%RSD	3.6018	1.8939	1.5746	.30566	3.603	.0525	1.1945
#1	4.4167	29.572	14.692	18222.	1291.	16790.	185.30
#2	4.4138	29.709	15.087	18319.	1340.	16800.	185.82
#3	4.6966	28.686	15.112	18224.	1246.	16780.	181.77
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23009-004 Acquired: 11/16/2015 13:18:33 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LN7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0851	259.58	15.275	5.8152	.71081	4.4651	435.6
Stddev	.3215	19.20	.203	1.4853	1.1607	1.0724	5.2
%RSD	15.421	7.3957	1.3282	25.541	163.29	24.017	1.196
#1	2.0068	239.47	15.071	4.2299	1.0557	5.6909	437.7
#2	2.4386	277.71	15.279	6.0411	1.6599	4.0041	439.4
#3	1.8100	261.57	15.476	7.1746	-.58320	3.7004	429.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.9804	37.248	35.245
Stddev	.5685	.587	.081
%RSD	28.708	1.5767	.22867
#1	-1.6777	37.423	35.333
#2	-1.6273	37.729	35.175
#3	-2.6363	36.594	35.227
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-004 Acquired: 11/16/2015 13:18:33 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LN7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26982.	6625.2	381200.
Stddev	87.	40.9	3649.
%RSD	.32105	.61762	.95724
#1	26954.	6672.4	378670.
#2	27079.	6601.4	379550.
#3	26912.	6601.7	385380.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.83%	104.03%	102.38%
Range			

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Sample Name: QJ23009-005 Acquired: 11/16/2015 13:23:20 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LN8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.58357	13903.	4.2975	24.726	.17525	29527.	.1830
Stddev	.31892	802.	.6128	1.139	.00994	1628.	.2273
%RSD	54.651	5.7653	14.259	4.6074	5.6726	5.5142	124.2
#1	-.35474	12979.	3.5989	23.443	.16861	27649.	.0325
#2	-.94787	14321.	4.7444	25.621	.17045	30400.	.4445
#3	-.44810	14410.	4.5491	25.113	.18668	30533.	.0720
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.561	26.552	29.842	33178.	1133.	13410.	321.45
Stddev	.097	.199	.324	1743.	54.	704.	2.16
%RSD	.71156	.75122	1.0845	5.2545	4.764	5.253	.67221
#1	13.478	26.699	30.215	31165.	1071.	12590.	322.42
#2	13.667	26.325	29.641	34157.	1167.	13810.	318.97
#3	13.540	26.632	29.668	34211.	1161.	13820.	322.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23009-005 Acquired: 11/16/2015 13:23:20 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LN8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1293	271.77	26.821	4.9703	-.12053	3.4563	921.7
Stddev	.1028	32.41	.181	1.7131	.60197	.9047	6.2
%RSD	9.1020	11.927	.67354	34.467	499.44	26.176	.6698
#1	1.2076	237.87	26.750	6.3660	.56710	2.8380	924.1
#2	1.0129	302.46	26.687	3.0584	-.37630	4.4947	914.7
#3	1.1675	274.99	27.027	5.4865	-.55238	3.0362	926.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.2097	66.263	114.57
Stddev	.7946	.166	.52
%RSD	65.681	.25106	.45389
#1	-.29260	66.201	114.12
#2	-1.6466	66.136	114.46
#3	-1.6900	66.451	115.14
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-005 Acquired: 11/16/2015 13:23:20 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LN8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27509.	6858.3	381880.
Stddev	126.	332.4	2379.
%RSD	.45736	4.8472	.62307
#1	27653.	7239.4	379500.
#2	27448.	6707.5	384260.
#3	27425.	6628.0	381870.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.82%	107.69%	102.56%
Range			

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Sample Name: QJ23009-006 Acquired: 11/16/2015 13:28:07 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LN9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.66928	9169.6	5.5275	31.271	.74640	216750.	.3171
Stddev	.20315	74.7	.5545	.516	.00704	346.	.1334
%RSD	30.354	.81492	10.032	1.6492	.94261	.15962	42.07
#1	-.88893	9192.2	5.6341	31.864	.75451	216850.	.4678
#2	-.48815	9086.2	6.0209	30.931	.74198	216360.	.2140
#3	-.63076	9230.4	4.9274	31.017	.74270	217030.	.2695
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.3582	25.653	39.096	23170.	2070.	21740.	276.27
Stddev	.0987	.154	.206	44.	65.	63.	.28
%RSD	1.3409	.59881	.52710	.18928	3.123	.2911	.10117
#1	7.4433	25.555	38.860	23172.	2120.	21810.	276.53
#2	7.2501	25.830	39.237	23126.	2092.	21740.	276.32
#3	7.3813	25.574	39.191	23213.	1997.	21680.	275.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23009-006 Acquired: 11/16/2015 13:28:07 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LN9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8704	384.87	27.638	10.223	-.96124	3.5877	493.6
Stddev	.0812	17.08	.144	.980	1.4415	1.4301	.7
%RSD	4.3424	4.4388	.52215	9.5903	149.96	39.862	.1372
#1	1.8152	370.83	27.800	9.2256	-2.3567	1.9626	493.8
#2	1.8324	379.90	27.592	11.186	-1.0493	4.1463	494.2
#3	1.9637	403.89	27.522	10.258	.52224	4.6543	492.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.17746	48.335	61.714
Stddev	.71390	.407	.049
%RSD	402.29	.84228	.07954
#1	-.54451	48.774	61.728
#2	.88301	48.258	61.660
#3	.19387	47.971	61.755
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-006 Acquired: 11/16/2015 13:28:07 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LN9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26813.	6696.5	378390.
Stddev	30.	66.1	1385.
%RSD	.11011	.98768	.36611
#1	26798.	6720.2	376900.
#2	26847.	6621.8	378650.
#3	26794.	6747.5	379640.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.20%	105.15%	101.63%
Range			

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Sample Name: QJ23009-007 Acquired: 11/16/2015 13:32:53 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LR9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.25558	750.61	.89496	150.93	.37478	18444.	.7372
Stddev	.37767	38.35	.56312	.59	.00531	101.	.1030
%RSD	147.77	5.1087	62.921	.38783	1.4182	.54799	13.98
#1	-.67011	734.43	1.3611	150.75	.37400	18517.	.6442
#2	-.16558	723.01	1.0545	151.59	.38044	18329.	.7195
#3	.06896	794.40	.26927	150.46	.36990	18487.	.8480
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.7566	2.6094	75.827	6143.7	520.1	483.6	712.85
Stddev	.0253	.1769	.505	13.7	85.9	15.4	3.36
%RSD	.91802	6.7801	.66637	.22340	16.51	3.185	.47111
#1	2.7825	2.4363	76.400	6146.4	472.1	497.6	714.31
#2	2.7319	2.7899	75.448	6155.9	468.9	485.9	709.01
#3	2.7552	2.6019	75.631	6128.9	619.2	467.1	715.23
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23009-007 Acquired: 11/16/2015 13:32:53 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LR9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.44802	118.92	4.6538	10.207	.01871	3.4660	28.90
Stddev	.31021	12.69	.1649	.554	.91340	2.6448	.13
%RSD	69.240	10.668	3.5441	5.4234	4881.4	76.307	.4376
#1	.80602	111.74	4.4723	10.572	-.88116	.41232	28.94
#2	.25853	111.45	4.7945	10.478	-.00776	5.0293	28.76
#3	.27952	133.57	4.6946	9.5698	.94506	4.9565	29.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.98589	2.3558	45.187
Stddev	.24383	.0586	.096
%RSD	24.731	2.4883	.21223
#1	-1.1709	2.3026	45.126
#2	-1.0772	2.3461	45.138
#3	-.70959	2.4186	45.298
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-007 Acquired: 11/16/2015 13:32:53 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LR9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27605.	6742.9	400690.
Stddev	114.	64.2	3968.
%RSD	.41166	.95203	.99020
#1	27491.	6676.2	399720.
#2	27718.	6804.2	405060.
#3	27605.	6748.3	397300.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.18%	105.88%	107.62%
Range			

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Sample Name: QJ23009-008 Acquired: 11/16/2015 13:37:40 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LS0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.52134	917.09	2.4734	556.75	.11383	22484.	.8873
Stddev	.37738	34.16	.1298	9.38	.01345	436.	.1135
%RSD	72.387	3.7251	5.2464	1.6848	11.817	1.9409	12.79
#1	-.28291	935.20	2.5716	547.51	.12489	22030.	.7817
#2	-.32468	877.68	2.3263	556.47	.11775	22520.	.8727
#3	-.95644	938.38	2.5223	566.26	.09886	22901.	1.007
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.77176	8.3381	35.523	3599.5	450.0	1053.	1190.2
Stddev	.04150	.1976	.211	76.2	35.6	20.	15.3
%RSD	5.3776	2.3703	.59414	2.1164	7.922	1.914	1.2820
#1	.81659	8.4172	35.753	3517.9	489.5	1034.	1201.7
#2	.73468	8.4840	35.338	3611.9	420.2	1052.	1196.0
#3	.76402	8.1132	35.479	3668.8	440.4	1074.	1172.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23009-008 Acquired: 11/16/2015 13:37:40 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LS0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.50561	124.96	4.3477	96.916	.93138	3.8856	58.34
Stddev	.07837	12.09	.1482	1.067	1.0579	1.5928	.70
%RSD	15.501	9.6778	3.4089	1.1012	113.59	40.993	1.202
#1	.48287	114.11	4.1930	98.137	2.1530	2.6451	58.92
#2	.44113	138.00	4.3617	96.164	.32066	5.6819	58.54
#3	.59284	122.77	4.4884	96.446	.32049	3.3300	57.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.2240	3.7004	269.74
Stddev	.7088	.0332	.22
%RSD	31.869	.89678	.08187
#1	1.9992	3.7234	269.95
#2	1.6550	3.7155	269.76
#3	3.0180	3.6624	269.51
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-008 Acquired: 11/16/2015 13:37:40 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LS0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27185.	6800.8	381480.
Stddev	89.	105.4	6881.
%RSD	.32743	1.5495	1.8038
#1	27084.	6921.3	374510.
#2	27219.	6755.1	381650.
#3	27252.	6726.0	388270.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.60%	106.79%	102.45%
Range			

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Sample Name: QJ23009-008L(5) Acquired: 11/16/2015 13:42:28 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LS0L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.41900	169.35	.73399	117.96	.02964	4893.1	.3092
Stddev	.18616	44.97	.99425	.84	.01084	13.8	.0681
%RSD	44.431	26.556	135.46	.71442	36.572	.28231	22.01
#1	-.62434	134.22	.98510	116.99	.04187	4909.1	.3875
#2	-.37140	220.03	1.5786	118.53	.02581	4884.6	.2759
#3	-.26125	153.79	-.36174	118.36	.02123	4885.7	.2643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00292	1.7580	7.1618	820.27	148.2	261.9	235.23
Stddev	.14551	.2188	.2151	8.88	24.2	36.3	4.00
%RSD	4984.4	12.448	3.0032	1.0828	16.34	13.87	1.7018
#1	-.04490	1.6473	6.9926	810.39	135.8	219.9	238.15
#2	-.12283	2.0101	7.4039	822.83	176.1	282.4	230.67
#3	.15897	1.6166	7.0890	827.59	132.7	283.3	236.87
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23009-008L(5) Acquired: 11/16/2015 13:42:28 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LS0L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00819	77.354	1.0732	19.727	.28184	1.1406	11.72
Stddev	.13542	22.801	.2196	1.223	.62811	.6526	.52
%RSD	1653.1	29.477	20.462	6.1979	222.86	57.211	4.446
#1	.00508	61.745	1.0597	18.709	-.27966	1.4096	11.56
#2	.14515	103.52	.86058	21.083	.96017	1.6157	11.30
#3	-.12565	66.796	1.2991	19.389	.16500	.39657	12.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.23849	1.1401	54.009
Stddev	.52930	.0626	.089
%RSD	221.94	5.4887	.16393
#1	-.26408	1.0722	53.923
#2	.79098	1.1527	54.005
#3	.18857	1.1955	54.100
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-008L(5) Acquired: 11/16/2015 13:42:28 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LS0L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27556.	6485.8	390920.
Stddev	48.	80.8	5598.
%RSD	.17564	1.2454	1.4319
#1	27565.	6441.4	386260.
#2	27504.	6579.1	397130.
#3	27599.	6437.0	389370.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.00%	101.84%	104.99%
Range			

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Sample Name: QJ23009-008DU Acquired: 11/16/2015 13:47:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LS0D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.51775	593.09	1.9021	351.61	.06563	25743.	.7405
Stddev	.22053	66.09	1.6782	2.56	.01678	68.	.1172
%RSD	42.595	11.144	88.228	.72732	25.571	.26407	15.82
#1	-.34711	516.94	.19403	349.49	.07348	25666.	.6060
#2	-.43936	626.78	3.5487	350.88	.07705	25771.	.7952
#3	-.76676	635.55	1.9635	354.45	.04636	25793.	.8203
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.46909	3.0622	23.275	2355.0	331.4	747.0	1183.3
Stddev	.12311	.1794	1.114	10.3	56.8	33.7	11.1
%RSD	26.244	5.8586	4.7861	.43884	17.12	4.506	.94222
#1	.45238	3.2590	23.864	2356.8	386.9	764.4	1185.9
#2	.59971	3.0199	23.971	2343.9	273.5	768.4	1192.9
#3	.35519	2.9077	21.990	2364.3	333.8	708.2	1171.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23009-008DU Acquired: 11/16/2015 13:47:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LS0D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47582	287.98	2.5285	29.651	1.2836	4.5687	33.79
Stddev	.09735	15.32	.1883	.972	1.4285	1.2604	.30
%RSD	20.459	5.3216	7.4457	3.2771	111.30	27.588	.8837
#1	.58308	285.20	2.7105	30.760	-.31281	3.1399	33.99
#2	.45132	274.24	2.3345	29.241	2.4415	5.0433	33.93
#3	.39306	304.51	2.5403	28.951	1.7219	5.5230	33.44
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.99115	2.7187	114.79
Stddev	.26767	.3742	.05
%RSD	27.006	13.765	.04767
#1	1.2666	2.9634	114.83
#2	.73194	2.2879	114.73
#3	.97496	2.9049	114.82
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-008DU Acquired: 11/16/2015 13:47:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LS0D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27040.	6554.0	389570.
Stddev	135.	71.8	3333.
%RSD	.49850	1.0961	.85554
#1	27019.	6592.4	387610.
#2	26916.	6471.1	387680.
#3	27184.	6598.5	393420.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.05%	102.91%	104.63%
Range			

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Sample Name: QJ23009-008MS Acquired: 11/16/2015 13:52:02 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LS0S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.139	694.39	72.786	4063.7	98.155	25645.	85.09
Stddev	1.542	87.50	.704	2.6	2.168	55.	.73
%RSD	1.6380	12.601	.96682	.06284	2.2085	.21292	.8581
#1	94.867	791.15	72.497	4063.9	100.09	25586.	85.87
#2	92.368	671.20	72.273	4061.1	95.810	25656.	84.97
#3	95.182	620.81	73.589	4066.2	98.571	25694.	84.43
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	879.84	387.15	508.12	4232.0	306.3	767.0	2087.7
Stddev	5.91	7.92	11.75	24.3	35.1	36.5	60.1
%RSD	.67215	2.0445	2.3118	.57353	11.47	4.766	2.8787
#1	885.80	393.69	518.35	4218.7	271.0	775.1	2116.0
#2	879.76	378.35	495.29	4260.0	341.3	727.0	2018.7
#3	873.97	389.40	510.72	4217.3	306.5	798.7	2128.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23009-008MS Acquired: 11/16/2015 13:52:02 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LS0S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.28285	62.807	880.99	83.462	151.11	173.60	33.31
Stddev	.11914	20.445	5.77	.429	.63	.77	.42
%RSD	42.123	32.552	.65516	.51455	.41646	.44448	1.273
#1	-.38430	80.786	886.37	83.352	150.56	173.38	33.77
#2	-.15165	67.068	881.72	83.098	151.80	172.96	33.21
#3	-.31259	40.567	874.89	83.935	150.97	174.46	32.94
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	93.466	929.84	1001.1
Stddev	.605	20.48	7.4
%RSD	.64717	2.2030	.73438
#1	94.093	947.73	1008.0
#2	92.885	907.50	1001.9
#3	93.421	934.30	993.33
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-008MS Acquired: 11/16/2015 13:52:02 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LS0S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27433.	6636.5	388810.
Stddev	37.	58.7	7325.
%RSD	.13628	.88488	1.8839
#1	27391.	6595.9	384320.
#2	27464.	6703.9	397260.
#3	27443.	6609.8	384840.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.53%	104.21%	104.42%
Range			

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Sample Name: QJ23009-008A Acquired: 11/16/2015 13:56:57 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LS0A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.119	1419.5	22.062	953.74	10.788	32815.	10.51
Stddev	.306	49.4	1.542	6.42	.052	288.	.05
%RSD	1.5199	3.4801	6.9892	.67366	.48574	.87737	.4336
#1	20.129	1365.0	20.512	946.71	10.733	32504.	10.52
#2	20.420	1461.3	22.079	955.21	10.837	32869.	10.55
#3	19.809	1432.3	23.596	959.31	10.794	33073.	10.46
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97.144	28.342	83.711	3831.8	10640.	11320.	1159.7
Stddev	.336	.247	.142	43.6	119.	102.	4.6
%RSD	.34560	.87324	.16949	1.1383	1.114	.8989	.39528
#1	96.851	28.098	83.548	3791.9	10530.	11230.	1155.6
#2	97.069	28.335	83.783	3825.1	10760.	11310.	1164.7
#3	97.510	28.592	83.802	3878.4	10640.	11430.	1158.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23009-008A Acquired: 11/16/2015 13:56:57 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LS0A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13891	11062.	80.984	110.19	118.86	73.701	56.68
Stddev	.05323	62.	.411	1.33	.85	.439	.62
%RSD	38.319	.55978	.50760	1.2052	.71211	.59566	1.102
#1	.08659	10998.	81.043	109.13	118.84	73.309	56.89
#2	.13715	11066.	80.546	111.68	119.72	73.618	57.17
#3	.19301	11121.	81.362	109.77	118.03	74.175	55.97
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.546	104.70	381.71
Stddev	1.848	.41	1.10
%RSD	3.7308	.39358	.28687
#1	51.245	104.25	380.70
#2	49.816	105.05	381.55
#3	47.578	104.81	382.87
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-008A Acquired: 11/16/2015 13:56:57 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LS0A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27116.	6748.4	387380.
Stddev	34.	66.5	961.
%RSD	.12538	.98468	.24818
#1	27123.	6825.1	387200.
#2	27146.	6712.3	386520.
#3	27079.	6707.8	388420.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.34%	105.97%	104.04%
Range			

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Sample Name: QJ23009-009 Acquired: 11/16/2015 14:01:43 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LS1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09090	712.45	2.5296	307.11	.06913	18180.	.5008
Stddev	.42272	122.07	.8303	2.70	.00858	152.	.1189
%RSD	465.06	17.134	32.824	.87922	12.418	.83475	23.75
#1	-.18548	677.90	2.9847	304.00	.05943	18005.	.6185
#2	.57751	611.37	1.5712	308.51	.07218	18277.	.5030
#3	-.11935	848.07	3.0328	308.82	.07577	18258.	.3807
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.0508	13.910	21.972	3996.1	548.3	665.6	633.67
Stddev	.0946	.444	.577	28.8	93.3	14.1	6.16
%RSD	9.0023	3.1907	2.6277	.71955	17.02	2.123	.97270
#1	.97147	13.412	21.325	3966.6	558.5	661.8	626.74
#2	1.0255	14.052	22.434	3997.7	450.3	681.3	638.56
#3	1.1555	14.265	22.157	4024.1	636.2	653.8	635.70
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ23009-009 Acquired: 11/16/2015 14:01:43 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LS1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34006	94.978	2.9278	40.733	3.0641	4.2379	34.92
Stddev	.11454	11.267	.0755	.446	1.8790	1.4226	.56
%RSD	33.683	11.862	2.5776	1.0947	61.325	33.569	1.590
#1	.36658	84.961	2.8424	41.201	3.5587	5.7157	34.38
#2	.43902	107.18	2.9555	40.313	.98719	4.1202	35.49
#3	.21459	92.797	2.9855	40.687	4.6463	2.8777	34.88
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.17397	2.4931	131.52
Stddev	1.1210	.0546	2.43
%RSD	644.37	2.1913	1.8462
#1	.44071	2.5034	134.24
#2	1.1375	2.4341	130.73
#3	-1.0563	2.5419	129.58
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23009-009 Acquired: 11/16/2015 14:01:43 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: ME5LS1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26944.	6608.7	389410.
Stddev	343.	41.8	4753.
%RSD	1.2727	.63223	1.2205
#1	26556.	6615.1	394900.
#2	27068.	6646.9	386640.
#3	27208.	6564.0	386700.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.69%	103.77%	104.59%
Range			

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Sample Name: QJ23011-001 Acquired: 11/16/2015 14:06:31 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC2W8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.66286	38479.	37.455	671.61	3.1827	19167.	8.104
Stddev	.11483	110.	1.357	1.50	.0631	65.	.106
%RSD	17.323	.28543	3.6239	.22333	1.9829	.33994	1.306
#1	-.72869	38579.	35.999	671.91	3.2343	19093.	8.084
#2	-.72962	38496.	37.683	672.94	3.2013	19216.	8.009
#3	-.53027	38362.	38.685	669.98	3.1123	19192.	8.218
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.457	68.213	84.864	63836.	635.4	1425.	278.45
Stddev	.372	1.384	1.257	294.	10.1	21.	4.92
%RSD	3.2432	2.0294	1.4811	.46036	1.586	1.472	1.7673
#1	11.187	69.443	85.975	63507.	627.1	1403.	282.07
#2	11.304	68.483	85.119	63927.	632.5	1427.	280.42
#3	11.881	66.714	83.500	64074.	646.6	1445.	272.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ23011-001 Acquired: 11/16/2015 14:06:31 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC2W8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.019	285.99	44.028	776.01	7.3631	5.5075	947.3
Stddev	.175	13.13	.089	4.44	.6110	.8027	22.9
%RSD	1.7468	4.5919	.20316	.57178	8.2977	14.575	2.413
#1	10.218	299.62	44.120	772.05	7.5791	5.0738	965.6
#2	9.9536	284.93	43.942	775.18	7.8367	6.4338	954.5
#3	9.8866	273.42	44.023	780.80	6.6734	5.0149	921.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.27273	115.05	753.44
Stddev	.37295	2.29	4.29
%RSD	136.75	1.9889	.56923
#1	.25294	116.51	750.44
#2	.65518	116.21	751.52
#3	-.08993	112.41	758.35
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23011-001 Acquired: 11/16/2015 14:06:31 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC2W8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27862.	6840.2	393610.
Stddev	91.	26.3	7794.
%RSD	.32737	.38440	1.9802
#1	27846.	6816.3	386790.
#2	27960.	6836.0	391930.
#3	27779.	6868.3	402110.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.15%	107.41%	105.71%
Range			

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Sample Name: QJ23011-001L(5) Acquired: 11/16/2015 14:11:14 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC2W8L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.42272	8216.8	7.8401	141.04	.65335	4181.0	1.660
Stddev	.12439	53.4	.1469	.67	.00565	32.5	.042
%RSD	29.426	.64956	1.8730	.47290	.86494	.77691	2.546
#1	-.45568	8191.4	7.9163	140.27	.65551	4144.4	1.708
#2	-.28517	8180.8	7.9331	141.42	.65760	4192.6	1.636
#3	-.52731	8278.1	7.6708	141.43	.64694	4206.2	1.635
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.4232	14.482	17.428	13576.	175.4	341.4	58.225
Stddev	.0651	.203	.482	66.	58.1	12.7	.273
%RSD	2.6849	1.4011	2.7680	.48551	33.11	3.726	.46837
#1	2.3826	14.711	17.348	13501.	194.4	337.5	58.086
#2	2.4982	14.326	17.945	13625.	110.2	355.6	58.049
#3	2.3888	14.407	16.990	13603.	221.7	331.1	58.539
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QJ23011-001L(5) Acquired: 11/16/2015 14:11:14 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC2W8L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.9143	105.97	9.2777	166.18	1.3926	1.2359	194.2
Stddev	.1414	24.81	.0971	.75	.7302	2.0229	.3
%RSD	7.3892	23.408	1.0466	.45045	52.435	163.68	.1802
#1	1.7998	104.52	9.3873	165.62	1.7698	2.3403	193.9
#2	2.0724	81.927	9.2024	167.03	.55092	-1.0988	194.6
#3	1.8707	131.48	9.2433	165.89	1.8571	2.4662	194.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.79589	23.928	159.09
Stddev	.09720	.097	.31
%RSD	12.212	.40352	.19595
#1	.70505	23.954	159.41
#2	.89839	23.821	158.79
#3	.78424	24.008	159.08
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23011-001L(5) Acquired: 11/16/2015 14:11:14 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC2W8L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27271.	6570.8	392890.
Stddev	138.	54.0	1831.
%RSD	.50709	.82226	.46598
#1	27144.	6627.3	390800.
#2	27418.	6565.5	394240.
#3	27250.	6519.7	393630.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.92%	103.18%	105.52%
Range			

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Sample Name: QJ23011-001DU Acquired: 11/16/2015 14:15:59 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC2W8D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.96716	35238.	27.420	548.19	2.7467	16182.	6.134
Stddev	.26228	108.	.612	.31	.0582	24.	.198
%RSD	27.119	.30685	2.2310	.05601	2.1202	.14671	3.224
#1	-.71387	35338.	26.955	547.96	2.7000	16200.	6.135
#2	-1.2376	35254.	27.193	548.54	2.8119	16189.	5.936
#3	-.95002	35123.	28.113	548.08	2.7281	16155.	6.332
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.5435	62.800	70.531	53159.	751.7	1325.	242.30
Stddev	.1238	1.359	1.348	213.	37.0	37.	5.14
%RSD	1.2976	2.1638	1.9114	.40147	4.921	2.778	2.1196
#1	9.6301	61.383	69.033	53363.	772.2	1319.	237.63
#2	9.5988	64.092	71.648	53176.	709.0	1291.	247.80
#3	9.4016	62.925	70.911	52937.	773.9	1364.	241.48
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23011-001DU Acquired: 11/16/2015 14:15:59 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC2W8D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.8588	352.64	38.874	610.25	5.7436	7.0827	519.6
Stddev	.1762	31.66	.271	1.57	.6441	1.5614	13.4
%RSD	2.2417	8.9782	.69586	.25735	11.214	22.045	2.570
#1	7.9842	377.74	38.806	609.74	6.0655	7.4065	508.2
#2	7.6574	317.07	38.644	608.99	6.1632	8.4568	534.3
#3	7.9349	363.11	39.172	612.01	5.0020	5.3849	516.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.1737	96.765	570.62
Stddev	.8590	1.927	1.85
%RSD	39.518	1.9913	.32412
#1	-1.8921	94.941	569.50
#2	-1.4908	98.780	569.61
#3	-3.1382	96.575	572.76
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23011-001DU Acquired: 11/16/2015 14:15:59 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC2W8D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27246.	6698.2	384410.
Stddev	96.	46.9	6207.
%RSD	.35389	.69970	1.6146
#1	27330.	6733.8	390640.
#2	27140.	6645.1	378230.
#3	27267.	6715.7	384340.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.83%	105.18%	103.24%
Range			

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Sample Name: QJ23011-001MS Acquired: 11/16/2015 14:20:44 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC2W8S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	58.900	31684.	73.425	2787.7	65.443	15405.	62.23
Stddev	1.018	291.	1.405	24.4	1.213	153.	.40
%RSD	1.7283	.91801	1.9134	.87669	1.8533	.99121	.6499
#1	58.445	31390.	74.347	2759.7	64.804	15237.	62.45
#2	60.066	31691.	71.808	2798.2	66.841	15443.	61.77
#3	58.188	31971.	74.120	2805.1	64.682	15535.	62.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	577.62	301.28	375.07	54463.	511.0	1217.	944.13
Stddev	1.84	5.29	7.52	367.	46.6	19.	16.96
%RSD	.31835	1.7560	2.0053	.67317	9.115	1.560	1.7963
#1	576.39	298.25	372.21	54043.	531.9	1197.	934.90
#2	576.73	307.39	383.60	54630.	543.6	1219.	963.70
#3	579.73	298.20	369.40	54716.	457.7	1235.	933.78
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23011-001MS Acquired: 11/16/2015 14:20:44 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC2W8S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.0995	240.86	600.44	623.02	67.351	104.66	2567.
Stddev	.1448	25.13	1.74	3.76	1.354	1.13	48.
%RSD	1.7873	10.432	.28930	.60373	2.0108	1.0795	1.879
#1	8.1995	211.85	599.39	619.94	66.064	104.22	2542.
#2	7.9335	254.93	599.49	621.92	68.764	105.95	2623.
#3	8.1655	255.80	602.45	627.21	67.225	103.82	2537.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	53.983	682.15	1181.9
Stddev	2.051	12.30	4.1
%RSD	3.7991	1.8026	.34330
#1	51.906	675.81	1178.9
#2	54.036	696.32	1180.2
#3	56.006	674.32	1186.5
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23011-001MS Acquired: 11/16/2015 14:20:44 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC2W8S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28080.	6870.1	395600.
Stddev	101.	109.6	6680.
%RSD	.35996	1.5956	1.6886
#1	28119.	6990.8	397620.
#2	28155.	6842.6	388140.
#3	27965.	6776.8	401030.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	105.98%	107.88%	106.25%
Range			

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Sample Name: QJ23011-001A Acquired: 11/16/2015 14:25:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC2W8A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.632	38016.	55.995	1020.8	13.620	28339.	16.92
Stddev	.499	139.	1.750	2.6	.270	60.	.09
%RSD	2.5421	.36568	3.1260	.25476	1.9838	.21025	.5556
#1	20.208	38095.	54.053	1021.1	13.903	28285.	16.86
#2	19.345	37855.	56.481	1023.2	13.365	28403.	16.86
#3	19.343	38097.	57.451	1018.0	13.592	28327.	17.02
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	102.58	87.787	131.89	62293.	10550.	11350.	299.11
Stddev	.09	1.672	3.16	147.	41.	112.	5.89
%RSD	.09222	1.9040	2.3939	.23519	.3883	.9843	1.9689
#1	102.68	89.523	135.09	62131.	10520.	11290.	305.37
#2	102.49	86.188	128.78	62417.	10590.	11280.	293.67
#3	102.57	87.649	131.82	62331.	10530.	11480.	298.29
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23011-001A Acquired: 11/16/2015 14:25:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC2W8A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.9778	10869.	114.91	759.43	121.25	73.151	921.4
Stddev	.1781	52.	.26	2.09	.26	.712	16.3
%RSD	1.7844	.47642	.22322	.27544	.21065	.97291	1.766
#1	9.7855	10814.	114.99	758.47	121.02	72.889	938.1
#2	10.011	10917.	115.12	757.99	121.52	72.607	905.6
#3	10.137	10877.	114.63	761.83	121.21	73.956	920.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	45.237	210.86	841.33
Stddev	.746	4.05	1.54
%RSD	1.6498	1.9224	.18344
#1	45.601	215.26	841.52
#2	45.732	207.29	839.71
#3	44.379	210.02	842.78
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23011-001A Acquired: 11/16/2015 14:25:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC2W8A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27702.	6802.5	389140.
Stddev	106.	39.1	6427.
%RSD	.38300	.57436	1.6516
#1	27596.	6845.8	382870.
#2	27702.	6769.9	395710.
#3	27809.	6791.9	388830.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	104.55%	106.81%	104.51%
Range			

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Sample Name: QJ23011-002 Acquired: 11/16/2015 14:30:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC2X0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09889	14843.	57.115	281.54	.17636	2455.3
Stddev	.69696	127.	1.163	.73	.01055	11.4
%RSD	704.80	.85333	2.0365	.25915	5.9797	.46421
#1	-.48415	14699.	56.479	280.83	.18816	2451.3
#2	-.51817	14892.	56.410	281.49	.17302	2446.4
#3	.70565	14938.	58.458	282.29	.16788	2468.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9997	2.2679	94.273	80.481	F 334110.	968.3
Stddev	.1841	.1547	1.338	1.258	1060.	34.6
%RSD	18.42	6.8201	1.4187	1.5631	.31717	3.570
#1	.8274	2.4448	95.623	81.934	332880.	982.2
#2	1.194	2.2009	94.247	79.750	334740.	929.0
#3	.9780	2.1581	92.949	79.759	334690.	993.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QJ23011-002 Acquired: 11/16/2015 14:30:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC2X0

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	769.6	285.99	8.4220	507.11	12.895	672.31
Stddev	55.0	5.12	.2216	16.64	.247	.55
%RSD	7.147	1.7915	2.6317	3.2812	1.9180	.08110
#1	706.9	290.70	8.3217	508.79	12.617	672.18
#2	791.7	286.72	8.2682	489.70	12.979	672.92
#3	810.0	280.54	8.6760	522.85	13.089	671.85
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.684	13.364	589.8	3.4580	101.29	251.51
Stddev	1.515	.123	10.4	.8468	1.85	.14
%RSD	14.180	.92252	1.770	24.489	1.8284	.05604
#1	11.866	13.483	598.6	3.0462	102.84	251.37
#2	8.9759	13.237	592.4	2.8958	101.78	251.51
#3	11.209	13.371	578.3	4.4320	99.237	251.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QJ23011-002 Acquired: 11/16/2015 14:30:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MBC2X0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26656.	6556.8	382180.
Stddev	75.	50.7	6203.
%RSD	.28321	.77374	1.6230
#1	26601.	6556.4	376000.
#2	26625.	6607.8	382150.
#3	26742.	6506.3	388400.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.60%	102.96%	102.64%
Range			

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Sample Name: CCV002 Acquired: 11/16/2015 14:35:00 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	738.57	49432.	2466.0	9610.0	1042.6	48971.	977.0
Stddev	12.39	133.	.5	28.7	28.8	191.	.5
%RSD	1.6781	.26878	.01907	.29861	2.7603	.39036	.0469
#1	730.63	49285.	2465.8	9586.4	1039.4	48791.	977.5
#2	732.24	49467.	2465.6	9601.7	1015.5	49172.	976.6
#3	752.86	49544.	2466.5	9641.9	1072.8	48952.	976.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4761.2	10092.	12558.	24589.	37160.	48980.	4977.6
Stddev	3.3	164.	272.	60.	138.	434.	67.2
%RSD	.06986	1.6212	2.1668	.24578	.3725	.8850	1.3498
#1	4764.7	10111.	12308.	24522.	37000.	48520.	4902.7
#2	4758.1	9920.3	12516.	24608.	37210.	49380.	4997.7
#3	4760.7	10246.	12848.	24638.	37260.	49050.	5032.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV002 Acquired: 11/16/2015 14:35:00 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	969.81	25963.	4730.4	9213.6	2435.3	1220.6	982.1
Stddev	1.04	55.	3.0	9.6	1.9	.8	15.2
%RSD	.10703	.20996	.06305	.10440	.07919	.06666	1.543
#1	970.05	25913.	4732.7	9223.0	2435.1	1221.1	972.8
#2	968.68	26021.	4727.0	9203.8	2437.3	1219.6	973.8
#3	970.71	25956.	4731.4	9214.2	2433.5	1220.9	999.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	919.02	2485.5	4808.9
Stddev	1.99	38.1	4.2
%RSD	.21664	1.5309	.08770
#1	916.82	2462.0	4811.4
#2	919.53	2465.1	4804.0
#3	920.70	2529.4	4811.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV002 Acquired: 11/16/2015 14:35:00 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25034.	6386.7	367420.
Stddev	131.	97.4	5551.
%RSD	.52423	1.5243	1.5108
#1	25182.	6498.1	370760.
#2	24985.	6317.9	370490.
#3	24934.	6344.2	361010.

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Sample Name: CCB002 Acquired: 11/16/2015 14:40:16 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.38655	-84.983	-.77630	.87757	.02245	-6.9734	.0778
Stddev	.30162	13.079	.23428	.45576	.00939	3.2429	.0707
%RSD	78.030	15.390	30.179	51.934	41.845	46.504	90.82
#1	-.59063	-71.375	-.62552	.93081	.03118	-3.7405	.1343
#2	-.04009	-86.115	-.65717	.39753	.01251	-10.226	-.0014
#3	-.52891	-97.458	-1.0462	1.3044	.02365	-6.9534	.1005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30287	.04849	-.52043	1.5009	110.1	-33.28	.06206
Stddev	.13630	.30509	.20189	12.082	50.4	5.23	.04707
%RSD	45.002	629.19	38.794	805.02	45.76	15.73	75.839
#1	-.16192	.37592	-.52195	-2.3748	89.98	-35.53	.09270
#2	-.43398	-.00264	-.72155	15.045	72.92	-27.29	.08562
#3	-.31272	-.22781	-.31778	-8.1680	167.5	-37.01	.00787
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB002 Acquired: 11/16/2015 14:40:16 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1503	.50197	-.04400	1.3636	-1.0246	2.0301	-.1096
Stddev	.0905	8.2631	.24968	.5616	1.8957	1.8327	.1139
%RSD	7.8684	1646.2	567.44	41.187	185.01	90.275	103.9
#1	1.0814	9.5568	.20702	.90491	-2.1992	.17739	-.2136
#2	1.2528	-6.6306	-.29233	1.9899	1.1623	3.8420	.0121
#3	1.1166	-1.4202	-.04670	1.1959	-2.0370	2.0708	-.1273
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.19373	.34786	-.05669
Stddev	.39445	.14802	.02995
%RSD	203.61	42.552	52.820
#1	-.54137	.51878	-.02226
#2	-.27477	.26180	-.07662
#3	.23495	.26300	-.07121
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB002 Acquired: 11/16/2015 14:40:16 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27107.	6377.0	384320.
Stddev	80.	62.1	5073.
%RSD	.29634	.97393	1.3200
#1	27180.	6409.2	379120.
#2	27021.	6305.4	389250.
#3	27121.	6416.4	384600.

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Sample Name: QQ89608-001 Acquired: 11/16/2015 14:45:05 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.64340	-96.350	.71463	3.5491	.05507	64.501	-.0243
Stddev	.24946	50.581	.86868	.3746	.00660	3.788	.1186
%RSD	38.772	52.497	121.56	10.556	11.992	5.8726	488.7
#1	-.35554	-40.807	.92894	3.8708	.05128	62.418	-.0664
#2	-.79648	-108.48	-.24115	3.6388	.06270	68.873	-.1161
#3	-.77817	-139.76	1.4561	3.1378	.05124	62.211	.1097
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19239	-.04103	1.1665	-6.0988	35.26	-1.203	.18432
Stddev	.09081	.18637	.4527	16.737	52.31	25.22	.02283
%RSD	47.199	454.27	38.808	274.43	148.4	2096.	12.386
#1	.08830	-.13789	1.6835	-8.6742	12.33	10.35	.17687
#2	.25539	.17383	.84107	11.777	-1.677	-30.12	.16614
#3	.23349	-.15902	.97496	-21.399	95.12	16.17	.20994
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89608-001 Acquired: 11/16/2015 14:45:05 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.00826	910.32	.16583	-.04502	.27922	1.6715	-.1928
Stddev	.13153	28.49	.27914	.62923	.60240	.7948	.2221
%RSD	1592.4	3.1300	168.33	1397.7	215.74	47.548	115.2
#1	-.15815	941.35	-.13465	.12441	.19457	2.3570	-.0750
#2	.04547	904.31	.21504	-.74161	.91946	1.8573	-.0545
#3	.08790	885.32	.41710	.48215	-.27638	.80032	-.4490
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4336	-.01781	1.3086
Stddev	.5547	.19120	.0451
%RSD	38.695	1073.6	3.4494
#1	2.0436	.20012	1.3443
#2	.95931	-.09616	1.2579
#3	1.2978	-.15738	1.3238
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89608-001 Acquired: 11/16/2015 14:45:05 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27001.	6419.9	390650.
Stddev	215.	17.2	2737.
%RSD	.79513	.26719	.70063
#1	27233.	6403.1	393810.
#2	26809.	6437.4	389100.
#3	26960.	6419.2	389040.

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Sample Name: QQ89608-002 Acquired: 11/16/2015 14:49:54 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.987	295.58	19.055	375.95	10.002	9880.4	9.078
Stddev	.601	42.98	.361	1.19	.111	38.7	.027
%RSD	3.1634	14.540	1.8970	.31711	1.1099	.39137	.2943
#1	19.655	341.13	19.464	374.67	10.131	9843.5	9.047
#2	18.816	255.75	18.922	376.15	9.9420	9920.6	9.094
#3	18.490	289.86	18.779	377.03	9.9347	9876.9	9.093
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93.137	20.215	46.731	186.06	9909.	9961.	31.395
Stddev	.338	.185	.686	13.63	47.	39.	.424
%RSD	.36299	.91741	1.4685	7.3250	.4781	.3868	1.3508
#1	92.941	20.015	47.444	171.03	9890.	9975.	31.883
#2	92.943	20.382	46.075	197.61	9963.	9918.	31.115
#3	93.527	20.248	46.675	189.53	9874.	9991.	31.188
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89608-002 Acquired: 11/16/2015 14:49:54 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.27778	11398.	73.854	18.208	115.21	69.506	.0606
Stddev	.23308	52.	.101	.362	2.12	1.623	.0918
%RSD	83.911	.45357	.13690	1.9888	1.8431	2.3347	151.5
#1	-.50531	11339.	73.907	18.624	113.65	69.520	-.0444
#2	-.03951	11421.	73.737	18.031	114.36	67.876	.1003
#3	-.28851	11435.	73.917	17.968	117.63	71.122	.1259
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	48.541	95.962	113.74
Stddev	.754	1.487	.39
%RSD	1.5530	1.5496	.33849
#1	49.270	97.654	113.68
#2	47.765	94.860	113.39
#3	48.590	95.374	114.15
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89608-002 Acquired: 11/16/2015 14:49:54 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26590.	6405.1	379560.
Stddev	59.	92.0	4497.
%RSD	.22156	1.4359	1.1848
#1	26527.	6456.0	374370.
#2	26601.	6298.9	382380.
#3	26643.	6460.4	381920.

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Sample Name: QK06046-001 Acquired: 11/16/2015 14:54:41 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.26771	736.44	-.04643	12.083	.06866	6164.1	-.0273
Stddev	.25788	56.06	.55811	.758	.01044	32.5	.2743
%RSD	96.326	7.6124	1202.0	6.2745	15.207	.52691	1006.
#1	-.33926	791.68	.26244	12.890	.07616	6126.6	.1031
#2	.01839	738.05	-.69070	11.976	.05674	6183.4	.1576
#3	-.48226	679.59	.28896	11.385	.07310	6182.2	-.3424
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18792	.18824	-.25494	32.190	193.1	401.1	29.330
Stddev	.03620	.23966	.59280	16.326	49.5	3.7	.557
%RSD	19.265	127.32	232.53	50.718	25.61	.9142	1.8983
#1	-.22950	.46458	-.49621	18.892	205.0	404.1	29.233
#2	-.16341	.06290	.42045	50.411	138.8	402.2	29.928
#3	-.17084	.03724	-.68905	27.268	235.5	397.0	28.828
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK06046-001 Acquired: 11/16/2015 14:54:41 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.17946	1837.2	-.24015	2.1365	-.73930	1.9413	10.78
Stddev	.08915	6.2	.13317	.7120	.73539	1.9430	.23
%RSD	49.675	.33855	55.450	33.325	99.471	100.09	2.168
#1	-.18321	1844.1	-.09350	2.7584	.10798	4.1602	11.00
#2	-.26668	1835.1	-.27344	1.3598	-1.1141	.54470	10.80
#3	-.08850	1832.2	-.35352	2.2913	-1.2118	1.1189	10.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.9564	.40451	2.6666
Stddev	.9073	.19455	.1216
%RSD	46.375	48.094	4.5589
#1	2.9121	.27843	2.6199
#2	1.8504	.62857	2.8046
#3	1.1068	.30655	2.5753
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK06046-001 Acquired: 11/16/2015 14:54:41 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27173.	6356.2	382150.
Stddev	116.	119.7	2828.
%RSD	.42552	1.8829	.74004
#1	27213.	6452.5	383670.
#2	27042.	6393.8	378880.
#3	27263.	6222.2	383890.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.55%	99.806%	102.64%
Range			

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Sample Name: QK06046-001L(5) Acquired: 11/16/2015 14:59:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LR2L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16016	145.90	-.00699	3.0194	.03573	1357.7	-.0080
Stddev	.25483	79.75	1.2383	.2731	.00732	3.7	.1257
%RSD	159.11	54.662	17727.	9.0430	20.473	.27033	1561.
#1	-.22744	164.45	-1.4343	2.7078	.03704	1360.3	-.1467
#2	.12155	58.511	.63328	3.2170	.02785	1353.5	.0244
#3	-.37461	214.75	.78005	3.1335	.04231	1359.3	.0982
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.11699	.02213	-.12384	66.198	69.62	117.6	6.1824
Stddev	.09926	.25753	.63377	7.680	41.04	28.2	.0596
%RSD	84.848	1163.8	511.76	11.601	58.95	23.98	.96393
#1	.20781	-.25159	-.79557	58.418	31.00	148.5	6.2509
#2	.01102	.05834	.46353	73.773	65.14	93.29	6.1537
#3	.13214	.25964	-.03949	66.402	112.7	111.0	6.1426
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK06046-001L(5) Acquired: 11/16/2015 14:59:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LR2L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04917	396.67	.09048	-.11434	2.0286	1.2643	1.980
Stddev	.12545	22.95	.13865	1.2459	.9777	1.4662	.077
%RSD	255.12	5.7844	153.24	1089.6	48.196	115.97	3.897
#1	.05019	384.33	.16916	-1.5427	2.7574	-.42445	2.065
#2	-.00757	382.52	.17189	.74834	2.4109	2.2125	1.960
#3	-.19014	423.14	-.06962	.45136	.91753	2.0049	1.915
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.00960	.27294	.51764
Stddev	1.5201	.14285	.07097
%RSD	15828.	52.339	13.709
#1	-1.0874	.25878	.43571
#2	1.7448	.13770	.55986
#3	-.62855	.42235	.55735
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK06046-001L(5) Acquired: 11/16/2015 14:59:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LR2L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26621.	6258.9	373640.
Stddev	110.	113.6	1240.
%RSD	.41505	1.8143	.33198
#1	26496.	6177.6	372240.
#2	26662.	6388.6	374060.
#3	26706.	6210.4	374610.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.47%	98.278%	100.35%
Range			

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Sample Name: QK06046-001DU Acquired: 11/16/2015 15:04:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LR2D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.56717	820.31	.77794	11.998	.05354	6148.1	-.0821
Stddev	.49985	44.36	.73039	.437	.02257	13.1	.0427
%RSD	88.130	5.4072	93.888	3.6413	42.152	.21308	51.95
#1	-.12112	838.32	.21337	12.078	.02827	6137.0	-.1313
#2	-.47299	769.78	1.6028	11.527	.07168	6144.8	-.0604
#3	-1.1074	852.83	.51761	12.389	.06068	6162.6	-.0547
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09699	.04209	.24380	46.047	169.0	396.7	28.406
Stddev	.08266	.25404	.12850	13.268	35.0	43.0	.397
%RSD	85.222	603.54	52.707	28.814	20.73	10.84	1.3974
#1	-.00156	-.24271	.10326	38.049	204.9	444.9	28.012
#2	-.14600	.24535	.35528	61.362	134.9	362.2	28.806
#3	-.14342	.12363	.27284	38.729	167.2	383.1	28.400
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK06046-001DU Acquired: 11/16/2015 15:04:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LR2D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09135	1803.1	-.28731	1.6413	-.90435	1.1864	10.68
Stddev	.04973	13.0	.09269	.5939	2.3810	.6955	.14
%RSD	54.447	.72034	32.262	36.186	263.28	58.624	1.334
#1	-.11786	1809.5	-.18603	1.5706	-3.3855	1.8705	10.84
#2	-.12221	1788.2	-.30798	2.2674	1.3620	1.2087	10.56
#3	-.03397	1811.7	-.36792	1.0859	-.68962	.47999	10.65
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4862	.51462	2.6734
Stddev	1.3414	.38440	.1084
%RSD	90.259	74.696	4.0536
#1	-.04151	.92352	2.7817
#2	2.4715	.45973	2.5650
#3	2.0286	.16062	2.6735
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK06046-001DU Acquired: 11/16/2015 15:04:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LR2D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26831.	6330.1	382190.
Stddev	136.	44.1	4914.
%RSD	.50833	.69616	1.2857
#1	26710.	6336.6	387250.
#2	26979.	6370.6	377430.
#3	26804.	6283.2	381900.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.26%	99.397%	102.65%
Range			

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Sample Name: QK06046-001MS Acquired: 11/16/2015 15:09:02 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR2S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.719	2752.0	37.290	1854.5	50.115	6001.0	45.73
Stddev	.284	30.9	.690	1.9	.268	26.9	.17
%RSD	.57192	1.1223	1.8497	.10488	.53388	.44768	.3645
#1	50.034	2786.0	37.017	1852.7	50.353	5970.5	45.83
#2	49.482	2744.3	38.074	1856.6	50.168	6021.1	45.54
#3	49.641	2725.6	36.778	1854.2	49.826	6011.5	45.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	465.11	200.46	242.84	999.11	159.4	403.3	541.22
Stddev	1.56	1.09	1.50	17.57	15.4	12.4	2.70
%RSD	.33645	.54330	.61577	1.7591	9.655	3.069	.49823
#1	463.34	201.36	243.07	979.79	176.7	389.0	543.22
#2	465.68	200.77	244.21	1014.1	154.3	411.3	542.28
#3	466.31	199.25	241.24	1003.4	147.2	409.6	538.15
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK06046-001MS Acquired: 11/16/2015 15:09:02 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR2S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.25521	1763.3	461.55	18.429	95.078	95.593	10.65
Stddev	.44816	25.4	1.31	1.077	.453	.907	.19
%RSD	175.60	1.4415	.28438	5.8428	.47674	.94859	1.803
#1	-.23328	1751.8	460.18	19.601	95.095	95.736	10.83
#2	.18157	1792.5	461.68	18.204	95.522	96.419	10.68
#3	-.71393	1745.7	462.79	17.483	94.616	94.623	10.45
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	50.642	479.58	468.85
Stddev	1.262	2.23	.93
%RSD	2.4923	.46536	.19918
#1	49.914	481.28	467.83
#2	49.912	480.40	469.06
#3	52.099	477.05	469.67
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK06046-001MS Acquired: 11/16/2015 15:09:02 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR2S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26899.	6374.7	380070.
Stddev	74.	32.8	2863.
%RSD	.27401	.51390	.75320
#1	26932.	6362.4	379220.
#2	26951.	6411.8	377720.
#3	26815.	6349.9	383260.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.52%	100.10%	102.08%
Range			

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Sample Name: QK06046-001A Acquired: 11/16/2015 15:13:48 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR2A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.084	1099.6	20.560	396.12	10.699	16039.	9.355
Stddev	.143	63.4	.638	1.39	.181	78.	.074
%RSD	.71242	5.7650	3.1033	.35068	1.6883	.48389	.7921
#1	20.068	1030.9	21.172	395.23	10.565	15966.	9.404
#2	19.949	1155.9	19.899	395.42	10.627	16030.	9.391
#3	20.234	1111.8	20.609	397.72	10.904	16121.	9.269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.256	21.154	49.799	233.59	10320.	10650.	59.737
Stddev	.222	.317	1.212	13.61	63.	111.	.929
%RSD	.23333	1.4967	2.4347	5.8263	.6060	1.043	1.5548
#1	95.162	21.099	49.085	246.90	10380.	10630.	59.048
#2	95.097	20.869	49.113	219.70	10250.	10550.	59.370
#3	95.510	21.495	51.199	234.18	10340.	10770.	60.794
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK06046-001A Acquired: 11/16/2015 15:13:48 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR2A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29157	12546.	75.273	19.069	116.52	72.464	10.84
Stddev	.16023	36.	.182	.341	1.12	1.789	.15
%RSD	54.955	.28711	.24177	1.7863	.96085	2.4692	1.389
#1	-.43163	12507.	75.143	19.134	115.23	73.430	10.79
#2	-.11684	12553.	75.194	18.701	117.08	70.400	10.71
#3	-.32623	12578.	75.481	19.373	117.24	73.564	11.00
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	48.894	101.23	118.44
Stddev	1.100	1.76	.24
%RSD	2.2496	1.7422	.19907
#1	50.105	100.02	118.41
#2	47.957	100.42	118.23
#3	48.620	103.25	118.69
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK06046-001A Acquired: 11/16/2015 15:13:48 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR2A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26349.	6233.0	368100.
Stddev	83.	61.6	4942.
%RSD	.31389	.98900	1.3426
#1	26263.	6286.8	370940.
#2	26354.	6246.6	370960.
#3	26428.	6165.7	362390.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.443%	97.872%	98.862%
Range			

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Sample Name: QK06046-002 Acquired: 11/16/2015 15:18:35 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.62302	-96.233	-.20983	16.874	.22327	5616.9	-.0589
Stddev	.46244	55.713	1.3647	.512	.02074	30.3	.1047
%RSD	74.225	57.893	650.37	3.0339	9.2898	.53877	177.9
#1	-.40793	-123.63	-.33170	16.377	.22056	5586.3	-.1545
#2	-1.1538	-32.127	-1.5095	16.844	.24524	5646.8	.0530
#3	-.30731	-132.94	1.2117	17.400	.20402	5617.6	-.0751
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23641	.79208	8.1281	592.24	966.9	1156.	356.08
Stddev	.04553	.08016	.3481	8.76	58.6	49.	3.27
%RSD	19.258	10.121	4.2829	1.4788	6.056	4.258	.91910
#1	.23845	.71848	7.9941	583.69	973.1	1139.	355.02
#2	.28088	.87750	7.8669	591.82	905.5	1117.	359.75
#3	.18990	.78027	8.5233	601.20	1022.	1211.	353.47
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK06046-002 Acquired: 11/16/2015 15:18:35 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18021	3404.8	.45910	1.0046	1.2468	1.9703	.2902
Stddev	.27646	31.6	.13646	1.2826	1.4467	1.0408	.1014
%RSD	153.41	.92681	29.723	127.68	116.04	52.824	34.95
#1	-.48822	3375.4	.56970	1.4168	.69545	2.8533	.2655
#2	.04643	3438.2	.30661	-.43350	2.8881	2.2348	.4017
#3	-.09885	3400.8	.50098	2.0304	.15680	.82276	.2034
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.7332	.45377	7.4592
Stddev	.7037	.47068	.1278
%RSD	40.603	103.73	1.7128
#1	2.4559	-.05985	7.4568
#2	1.0502	.55667	7.5881
#3	1.6934	.86448	7.3326
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK06046-002 Acquired: 11/16/2015 15:18:35 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26960.	6446.6	382370.
Stddev	163.	36.6	2188.
%RSD	.60306	.56728	.57221
#1	26814.	6407.2	382900.
#2	27135.	6453.1	379960.
#3	26929.	6479.5	384240.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.75%	101.23%	102.69%
Range			

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Sample Name: QK06046-003 Acquired: 11/16/2015 15:23:23 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.24007	279.66	.19754	19.986	.06288	12996.	-.0095
Stddev	.37709	85.26	.74659	.313	.00680	138.	.0621
%RSD	157.07	30.486	377.95	1.5667	10.820	1.0657	650.3
#1	-.60019	377.08	.13254	19.802	.06947	12997.	-.0680
#2	.15195	243.25	-.51442	20.347	.06329	13134.	-.0163
#3	-.27197	218.65	.97450	19.808	.05588	12857.	.0556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07358	.45559	.00132	773.46	277.0	548.8	65.238
Stddev	.11795	.15892	.27100	5.90	33.3	50.3	1.260
%RSD	160.29	34.882	20596.	.76341	12.02	9.162	1.9320
#1	-.14612	.56175	.20911	772.84	309.1	494.1	65.620
#2	.06251	.53213	-.30521	767.89	279.2	593.1	66.263
#3	-.13714	.27289	.10005	779.65	242.6	559.2	63.831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK06046-003 Acquired: 11/16/2015 15:23:23 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18451	4529.2	-.35562	4.1772	.43259	2.0637	16.60
Stddev	.13836	56.5	.15268	1.4381	1.8132	2.4654	.31
%RSD	74.985	1.2471	42.935	34.427	419.15	119.47	1.851
#1	-.26853	4535.2	-.40170	4.2547	-1.4211	.60300	16.75
#2	-.26018	4582.3	-.47995	2.7019	2.2024	4.9102	16.80
#3	-.02483	4469.9	-.18520	5.5749	.51649	.67784	16.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.3158	1.3913	3.0620
Stddev	.4947	.1238	.1423
%RSD	21.364	8.9004	4.6464
#1	2.6133	1.4589	3.0659
#2	2.5895	1.4667	2.9179
#3	1.7447	1.2484	3.2023
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK06046-003 Acquired: 11/16/2015 15:23:23 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27243.	6458.0	389700.
Stddev	137.	98.3	6455.
%RSD	.50384	1.5225	1.6564
#1	27234.	6350.4	386390.
#2	27385.	6480.3	385570.
#3	27111.	6543.2	397140.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	102.82%	101.40%	104.66%
Range			

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Sample Name: QK06046-004 Acquired: 11/16/2015 15:28:11 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.49595	349.83	.42419	19.627	.07487	12653.	.0278
Stddev	.34419	21.04	.17771	.445	.00940	71.	.0158
%RSD	69.400	6.0154	41.895	2.2687	12.552	.56130	56.71
#1	-.22210	353.95	.48557	19.229	.06655	12613.	.0216
#2	-.88231	368.51	.56307	19.544	.07299	12735.	.0162
#3	-.38343	327.03	.22392	20.108	.08506	12611.	.0458
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10009	1.0473	.46359	438.55	104.8	522.3	64.108
Stddev	.10135	.1378	.16453	17.27	78.8	35.8	1.036
%RSD	101.25	13.153	35.490	3.9373	75.22	6.850	1.6163
#1	-.07036	.89370	.41360	424.76	89.40	527.7	64.654
#2	-.21298	1.0883	.32986	432.97	190.2	555.1	62.913
#3	-.01693	1.1599	.64732	457.92	34.80	484.2	64.756
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK06046-004 Acquired: 11/16/2015 15:28:11 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.27416	4828.2	.13422	3.2543	-.22892	1.2376	15.26
Stddev	.10501	32.3	.21368	.4843	1.2198	1.3486	.37
%RSD	38.302	.66913	159.20	14.882	532.84	108.96	2.434
#1	-.38554	4809.9	.20923	3.5958	1.1716	2.7939	15.14
#2	-.17696	4865.5	-.10685	2.7001	-1.0583	.41337	14.95
#3	-.26000	4809.2	.30029	3.4671	-.80003	.50563	15.67
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.91697	1.2493	5.6299
Stddev	.89862	.3519	.0696
%RSD	97.999	28.171	1.2366
#1	-.07572	1.5387	5.5503
#2	1.6749	.85751	5.6605
#3	1.1517	1.3516	5.6791
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK06046-004 Acquired: 11/16/2015 15:28:11 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26996.	6367.0	382890.
Stddev	173.	47.6	7363.
%RSD	.64108	.74695	1.9231
#1	27172.	6318.2	378120.
#2	26826.	6369.5	391370.
#3	26990.	6413.3	379190.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.89%	99.976%	102.84%
Range			

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Sample Name: QK06046-005 Acquired: 11/16/2015 15:32:58 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44464	119.56	.68503	22.825	.11612	27469.	-.0354
Stddev	.21253	97.20	1.2938	.887	.00090	256.	.0754
%RSD	47.800	81.296	188.86	3.8878	.77328	.93180	213.0
#1	-.24090	230.40	2.1748	21.801	.11583	27240.	-.0726
#2	-.66500	48.859	.03615	23.315	.11712	27421.	.0514
#3	-.42801	79.421	-.15589	23.359	.11539	27745.	-.0850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.09710	.83276	2.1692	392.88	1136.	4181.	37.459
Stddev	.11426	.34557	.4018	16.43	26.	46.	.575
%RSD	117.67	41.496	18.525	4.1818	2.318	1.099	1.5344
#1	-.04986	.97920	2.2465	376.86	1106.	4129.	38.088
#2	-.01405	.43809	2.5268	392.09	1153.	4197.	36.962
#3	-.22741	1.0810	1.7343	409.69	1150.	4216.	37.327
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK06046-005 Acquired: 11/16/2015 15:32:58 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00901	4675.2	-.38947	1.0279	1.3476	2.3124	5.999
Stddev	.08946	41.2	.13219	1.5128	.6335	1.4564	.352
%RSD	992.47	.88046	33.941	147.18	47.008	62.983	5.863
#1	-.08760	4647.1	-.25840	2.0798	.87891	2.5321	6.322
#2	.02567	4656.0	-.52275	-.70583	2.0683	.75860	5.625
#3	.08898	4722.4	-.38725	1.7096	1.0956	3.6465	6.051
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.70291	7.7265	4.6532
Stddev	.84591	.2470	.0746
%RSD	120.34	3.1975	1.6038
#1	1.6545	8.0106	4.7363
#2	.03636	7.5618	4.6314
#3	.41784	7.6071	4.5919
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK06046-005 Acquired: 11/16/2015 15:32:58 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: ME5LR6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26683.	6359.7	377360.
Stddev	77.	69.8	7837.
%RSD	.29003	1.0972	2.0769
#1	26694.	6439.5	368320.
#2	26601.	6310.4	382160.
#3	26755.	6329.1	381600.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.71%	99.861%	101.35%
Range			

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Sample Name: QK06046-006 Acquired: 11/16/2015 15:37:45 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LR7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13127	464.58	.59761	29.304	.10327	15158.	-.0527
Stddev	.41269	17.58	.64820	.258	.00715	21.	.1240
%RSD	314.37	3.7839	108.47	.87948	6.9194	.13684	235.0
#1	-.24248	459.37	.30668	29.416	.10861	15181.	.0862
#2	.06214	450.20	.14584	29.009	.09516	15152.	-.1519
#3	.57417	484.18	1.3403	29.487	.10606	15141.	-.0926
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07645	.64300	7.8177	735.36	569.1	1056.	73.334
Stddev	.13586	.15104	.1692	22.95	44.5	7.	.656
%RSD	177.71	23.489	2.1638	3.1215	7.819	.6253	.89473
#1	.20549	.56995	7.8508	730.21	524.8	1055.	73.632
#2	.08920	.54239	7.6345	760.45	613.8	1063.	73.788
#3	-.06534	.81668	7.9679	715.42	568.7	1049.	72.582
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK06046-006 Acquired: 11/16/2015 15:37:45 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LR7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35309	5411.4	-.18000	.11165	6.8327	-.07825	11.41
Stddev	.25890	12.7	.27361	1.0792	.4889	1.4810	.15
%RSD	73.326	.23388	152.00	966.52	7.1551	1892.6	1.308
#1	.05479	5398.6	-.40627	1.0594	6.9689	1.3305	11.27
#2	.48504	5423.9	-.25782	.33840	7.2389	.05712	11.41
#3	.51943	5411.7	.12408	-1.0629	6.2901	-1.6223	11.56
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.1540	1.5411	5.6634
Stddev	.1769	.4176	.0635
%RSD	8.2138	27.100	1.1207
#1	2.2134	1.5086	5.6326
#2	2.2936	1.9740	5.6213
#3	1.9550	1.1406	5.7364
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK06046-006 Acquired: 11/16/2015 15:37:45 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ME5LR7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26566.	6306.4	377910.
Stddev	76.	45.5	1148.
%RSD	.28782	.72112	.30380
#1	26481.	6351.0	377730.
#2	26590.	6260.1	376870.
#3	26628.	6308.1	379140.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.26%	99.025%	101.50%
Range			

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Sample Name: QJ23011-002(5) Acquired: 11/16/2015 15:42:34 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: MBC2X0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30842	2920.2	11.120	55.938	.05850	608.17	.2040
Stddev	.22973	103.4	.633	.577	.00257	13.73	.0210
%RSD	74.485	3.5394	5.6945	1.0318	4.3988	2.2584	10.31
#1	-.45461	2968.5	11.256	56.116	.05782	601.53	.2282
#2	-.42702	2801.5	10.429	55.293	.05633	623.97	.1919
#3	-.04363	2990.6	11.673	56.405	.06134	599.03	.1917
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.60107	19.206	16.173	67592.	242.7	178.0	58.022
Stddev	.03523	.345	.590	93.	55.5	6.9	.643
%RSD	5.8608	1.7940	3.6495	.13744	22.89	3.867	1.1086
#1	.60126	19.598	15.497	67672.	204.3	180.1	57.527
#2	.56575	18.949	16.432	67614.	217.4	170.3	57.790
#3	.63621	19.071	16.589	67490.	306.4	183.5	58.749
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ23011-002(5) Acquired: 11/16/2015 15:42:34 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: MBC2X0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4748	153.60	1.4249	138.22	2.7256	4.1348	117.5
Stddev	.1080	21.85	.2995	.73	1.2082	.7639	.9
%RSD	7.3210	14.223	21.022	.53077	44.329	18.474	.7645
#1	1.5189	178.73	1.5874	138.52	1.9930	4.6234	116.5
#2	1.3518	139.12	1.6080	138.75	2.0637	3.2546	118.2
#3	1.5538	142.95	1.0792	137.38	4.1202	4.5265	117.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.07983	20.771	50.738
Stddev	.55320	.236	.070
%RSD	692.96	1.1364	.13815
#1	-.30284	20.500	50.816
#2	.71411	20.883	50.679
#3	-.17177	20.931	50.720
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ23011-002(5) Acquired: 11/16/2015 15:42:34 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: 1312/200.7/I Custom ID2: Custom ID3:
Comment: MBC2X0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26975.	6484.7	380230.
Stddev	35.	37.4	4783.
%RSD	.12946	.57704	1.2578
#1	26998.	6444.5	385400.
#2	26992.	6491.0	379350.
#3	26935.	6518.5	375960.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.81%	101.82%	102.12%
Range			

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Sample Name: QQ89520-001 Acquired: 11/16/2015 15:47:21 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBW001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.64283	-29.234	.65570	.79352	.04922	-62.539	-.0722
Stddev	.27484	89.676	.47641	.57670	.00837	8.277	.1400
%RSD	42.754	306.75	72.656	72.676	17.006	13.234	194.0
#1	-.94216	-55.049	.79954	1.3633	.04653	-63.731	-.1725
#2	-.58447	70.517	1.0436	.21016	.05861	-53.731	-.1319
#3	-.40187	-103.17	.12395	.80708	.04253	-70.155	.0878
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03762	.05287	-.11077	11.548	-79.98	-52.77	2.0900
Stddev	.08352	.13386	.19409	19.300	32.40	36.41	.0566
%RSD	221.98	253.19	175.21	167.13	40.51	69.00	2.7087
#1	.09957	.15736	.05733	5.7428	-70.29	-71.55	2.1345
#2	-.05736	.09928	-.06646	-4.1835	-116.1	-75.95	2.0262
#3	.07067	-.09802	-.32320	33.084	-53.53	-10.80	2.1092
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89520-001 Acquired: 11/16/2015 15:47:21 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBW001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.34256	-21.852	-.24654	-.39173	.87156	2.9650	-.0574
Stddev	.10162	9.535	.13329	.63576	1.1217	.6326	.1896
%RSD	29.663	43.634	54.063	162.30	128.70	21.335	330.5
#1	-.45978	-27.010	-.24646	-1.0469	.72317	2.2348	.1562
#2	-.27935	-10.849	-.11330	.22267	2.0600	3.3481	-.2059
#3	-.28856	-27.698	-.37987	-.35098	-.16854	3.3120	-.1224
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.76525	.22341	6.7119
Stddev	2.4654	.13441	.0271
%RSD	322.17	60.164	.40377
#1	3.5474	.23314	6.7359
#2	-1.1484	.08440	6.6825
#3	-.10320	.35269	6.7173
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89520-001 Acquired: 11/16/2015 15:47:21 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBW001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27212.	6331.6	379390.
Stddev	33.	55.3	9939.
%RSD	.12283	.87408	2.6198
#1	27194.	6323.6	368890.
#2	27193.	6390.5	380620.
#3	27251.	6280.7	388660.

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Sample Name: QQ89520-002 Acquired: 11/16/2015 15:52:09 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.636	360.73	19.095	373.67	10.110	9777.6	9.208
Stddev	.114	73.64	.358	1.91	.039	73.5	.131
%RSD	.58103	20.415	1.8726	.51129	.38429	.75207	1.423
#1	19.567	286.00	18.869	371.61	10.130	9699.8	9.079
#2	19.573	362.95	18.909	375.37	10.066	9845.9	9.341
#3	19.767	433.24	19.508	374.04	10.136	9787.1	9.206
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93.355	20.317	46.938	189.09	9877.	10180.	F 41.643
Stddev	.081	.192	1.030	2.68	43.	106.	.244
%RSD	.08698	.94569	2.1946	1.4181	.4368	1.040	.58509
#1	93.279	20.098	47.751	187.91	9841.	10070.	41.729
#2	93.347	20.460	45.780	192.16	9925.	10180.	41.368
#3	93.441	20.391	47.283	187.20	9867.	10280.	41.831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value							30.000
Range							30.500%

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Sample Name: QQ89520-002 Acquired: 11/16/2015 15:52:09 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33839	10619.	73.508	18.574	115.08	70.790	-.0442
Stddev	.21761	96.	.472	.686	.25	.404	.1381
%RSD	64.306	.90845	.64275	3.6935	.21679	.57007	312.4
#1	-.43701	10536.	73.263	18.707	115.23	70.409	.0562
#2	-.08894	10725.	73.209	19.184	115.22	70.748	-.2017
#3	-.48923	10595.	74.053	17.831	114.79	71.213	.0129
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	48.574	97.321	114.73
Stddev	.861	.228	.12
%RSD	1.7732	.23409	.10841
#1	48.125	97.578	114.59
#2	49.568	97.244	114.78
#3	48.031	97.142	114.83
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89520-002 Acquired: 11/16/2015 15:52:09 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26659.	6343.0	376530.
Stddev	79.	40.0	556.
%RSD	.29566	.62999	.14778
#1	26693.	6329.6	375960.
#2	26569.	6388.0	377070.
#3	26715.	6311.5	376570.

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Sample Name: QJ30009-004 Acquired: 11/16/2015 15:56:55 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2W9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.34854	233.37	.70783	55.086	.07821	6705.4	.0758
Stddev	.28640	43.60	.32511	.324	.01083	11.5	.0611
%RSD	82.171	18.685	45.931	.58841	13.844	.17142	80.66
#1	-.01958	283.03	.81611	55.339	.07018	6717.4	.0053
#2	-.54238	215.72	.96499	54.720	.07393	6694.5	.1075
#3	-.48366	201.36	.34240	55.198	.09053	6704.3	.1146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.61141	.85318	1.7215	705.46	2252.	1862.	41.601
Stddev	.11764	.21898	.8712	22.22	24.	52.	.646
%RSD	19.240	25.666	50.607	3.1499	1.072	2.772	1.5536
#1	.49936	.62526	2.5862	680.47	2271.	1822.	40.885
#2	.73393	1.0620	1.7344	723.00	2225.	1920.	41.777
#3	.60095	.87233	.84393	712.92	2260.	1843.	42.141
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30009-004 Acquired: 11/16/2015 15:56:55 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2W9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07391	20330.	1.6773	1.5442	-.06794	1.9803	.5910
Stddev	.25829	62.	.4804	.3034	.86265	.4996	.1224
%RSD	349.49	.30685	28.640	19.649	1269.6	25.229	20.71
#1	.22223	20399.	2.2314	1.8519	-.86662	1.7076	.4522
#2	-.19123	20277.	1.3779	1.2453	.84690	2.5570	.6834
#3	-.25271	20315.	1.4226	1.5355	-.18411	1.6765	.6374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0364	.93493	20.690
Stddev	.2715	.14185	.046
%RSD	26.199	15.172	.22216
#1	.99125	1.0087	20.655
#2	1.3277	1.0247	20.742
#3	.79031	.77140	20.672
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30009-004 Acquired: 11/16/2015 15:56:55 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2W9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26672.	6325.4	379160.
Stddev	76.	37.5	6818.
%RSD	.28444	.59347	1.7980
#1	26754.	6282.1	387020.
#2	26604.	6347.9	374870.
#3	26659.	6346.3	375600.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.66%	99.323%	101.83%
Range			

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Sample Name: QJ30009-004L(5) Acquired: 11/16/2015 16:01:42 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC2W9L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05154	61.829	.12712	9.8399	.04545	1247.6	.0191
Stddev	.90461	19.993	1.5361	.2530	.01163	10.9	.1584
%RSD	1755.0	32.336	1208.4	2.5707	25.591	.87622	827.4
#1	-.71934	83.939	-1.0817	10.124	.05884	1247.2	-.1460
#2	.97796	45.024	1.8556	9.6400	.03963	1236.8	.0337
#3	-.41326	56.523	-.39256	9.7554	.03788	1258.7	.1697
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01418	.43110	-.39438	183.62	443.4	358.9	7.3862
Stddev	.12098	.17049	.34288	16.89	36.4	52.8	.1152
%RSD	852.85	39.548	86.941	9.1996	8.201	14.70	1.5598
#1	-.05013	.33396	-.03117	201.02	408.6	302.7	7.4935
#2	-.06105	.62795	-.71246	167.28	440.6	366.6	7.2644
#3	.15373	.33137	-.43950	182.54	481.1	407.4	7.4006
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30009-004L(5) Acquired: 11/16/2015 16:01:42 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC2W9L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08957	3586.9	.26962	.81482	-.27245	1.9110	-.0226
Stddev	.13285	46.2	.40133	.91286	2.2901	.5559	.2463
%RSD	148.32	1.2882	148.85	112.03	840.57	29.087	1088.
#1	-.05735	3564.1	.15961	.39860	.03866	2.1416	-.2422
#2	.20122	3556.5	.71448	1.8616	-2.7022	1.2770	-.0695
#3	.12484	3640.1	-.06523	.18424	1.8462	2.3145	.2438
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.13909	.56722	3.5311
Stddev	.65145	.10574	.1308
%RSD	468.36	18.641	3.7031
#1	-.43034	.67333	3.6219
#2	-.59411	.46186	3.3812
#3	.60717	.56648	3.5901
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30009-004L(5) Acquired: 11/16/2015 16:01:42 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC2W9L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26617.	6212.5	379850.
Stddev	9.	30.1	5740.
%RSD	.03298	.48517	1.5111
#1	26626.	6230.9	373840.
#2	26615.	6177.7	385270.
#3	26609.	6228.8	380440.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.45%	97.550%	102.02%
Range			

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Sample Name: QJ30009-004DU Acquired: 11/16/2015 16:06:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC2W9D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.26948	249.04	1.6977	54.864	.09829	6573.1	.2692
Stddev	.52897	48.45	1.0544	.101	.01215	13.5	.0658
%RSD	196.29	19.453	62.107	.18428	12.357	.20556	24.46
#1	-.39016	256.36	.59609	54.917	.08631	6587.0	.2376
#2	-.72769	293.42	2.6975	54.747	.09796	6560.0	.3449
#3	.30940	197.36	1.7996	54.927	.11059	6572.3	.2252
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.69281	.76130	.91661	691.43	2268.	1823.	43.661
Stddev	.04958	.32473	.87032	19.94	56.	72.	.551
%RSD	7.1556	42.655	94.949	2.8842	2.453	3.930	1.2619
#1	.72399	.52384	.00825	669.35	2328.	1770.	44.282
#2	.71881	.62872	1.7431	708.13	2218.	1905.	43.473
#3	.63565	1.1313	.99850	696.83	2259.	1795.	43.229
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30009-004DU Acquired: 11/16/2015 16:06:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC2W9D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.18111	19976.	1.4328	2.0241	.56033	3.0294	.5591
Stddev	.20205	57.	.1766	.7921	1.3867	2.4215	.1890
%RSD	111.56	.28627	12.326	39.135	247.48	79.934	33.81
#1	-.41420	20012.	1.3318	1.5949	-.74785	1.7747	.3910
#2	-.07335	19910.	1.6367	2.9382	2.0141	5.8207	.5225
#3	-.05579	20005.	1.3300	1.5391	.41478	1.4926	.7637
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.84912	.87471	19.341
Stddev	.23098	.23697	.166
%RSD	27.202	27.092	.86058
#1	.61930	.84920	19.427
#2	1.0812	1.1234	19.447
#3	.84683	.65152	19.149
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30009-004DU Acquired: 11/16/2015 16:06:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC2W9D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26552.	6272.8	376220.
Stddev	161.	45.1	3049.
%RSD	.60676	.71918	.81042
#1	26510.	6324.5	373210.
#2	26416.	6241.2	376140.
#3	26730.	6252.8	379300.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.21%	98.497%	101.04%
Range			

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Sample Name: QJ30009-004MS Acquired: 11/16/2015 16:11:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2W9S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.121	2184.2	38.758	1910.7	50.898	6601.8	45.61
Stddev	.974	102.6	.524	1.9	.475	22.2	.22
%RSD	1.9828	4.6976	1.3530	.09988	.93236	.33663	.4749
#1	50.047	2240.3	38.455	1909.6	51.437	6579.4	45.38
#2	49.210	2065.8	38.456	1909.6	50.713	6602.2	45.62
#3	48.105	2246.5	39.364	1912.9	50.543	6623.8	45.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	465.10	201.16	239.52	1664.7	2215.	1837.	550.74
Stddev	.16	1.83	1.45	1.6	106.	59.	4.76
%RSD	.03527	.90788	.60335	.09486	4.804	3.219	.86342
#1	465.05	203.27	241.13	1666.5	2211.	1822.	556.21
#2	465.29	200.18	238.32	1663.5	2324.	1787.	548.49
#3	464.97	200.03	239.11	1664.0	2111.	1902.	547.54
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30009-004MS Acquired: 11/16/2015 16:11:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2W9S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33642	20053.	460.78	18.608	94.442	96.748	.3133
Stddev	.25869	37.	.26	.533	1.376	1.480	.1595
%RSD	76.897	.18695	.05596	2.8628	1.4571	1.5296	50.93
#1	-.05592	20012.	460.68	18.182	94.497	95.055	.3126
#2	-.38771	20084.	460.58	19.205	93.039	97.395	.1540
#3	-.56562	20064.	461.07	18.436	95.790	97.795	.4731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	48.426	485.46	491.13
Stddev	1.534	3.97	.08
%RSD	3.1686	.81763	.01684
#1	47.094	490.04	491.15
#2	50.104	483.16	491.04
#3	48.080	483.18	491.21
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30009-004MS Acquired: 11/16/2015 16:11:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2W9S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26370.	6228.4	370120.
Stddev	83.	83.3	2025.
%RSD	.31653	1.3381	.54708
#1	26303.	6245.4	368080.
#2	26344.	6137.9	372130.
#3	26464.	6301.9	370160.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.524%	97.800%	99.406%
Range			

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Sample Name: QJ30009-004A Acquired: 11/16/2015 16:16:03 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2W9A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.347	643.12	21.578	442.12	10.883	16682.	9.723
Stddev	.640	26.19	1.198	.80	.216	74.	.057
%RSD	3.1465	4.0728	5.5536	.18088	1.9884	.44597	.5872
#1	20.420	669.28	20.909	441.22	10.832	16603.	9.782
#2	20.948	643.17	22.961	442.73	11.120	16750.	9.668
#3	19.674	616.90	20.864	442.43	10.696	16692.	9.718
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97.366	22.073	50.569	888.38	12590.	12120.	72.775
Stddev	.433	.801	.844	3.77	130.	98.	1.555
%RSD	.44443	3.6310	1.6686	.42428	1.029	.8061	2.1373
#1	97.854	21.921	50.837	886.93	12500.	12010.	72.450
#2	97.212	22.939	51.245	885.55	12730.	12200.	74.467
#3	97.031	21.358	49.623	892.66	12530.	12150.	71.408
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30009-004A Acquired: 11/16/2015 16:16:03 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2W9A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01246	30310.	78.173	19.848	118.88	72.952	.5914
Stddev	.09746	85.	.365	1.422	.53	.319	.0575
%RSD	782.12	.28000	.46734	7.1634	.44187	.43697	9.717
#1	.12194	30261.	78.394	18.433	119.11	72.763	.6389
#2	-.06482	30408.	78.372	21.276	118.28	72.774	.5275
#3	-.01974	30261.	77.751	19.835	119.26	73.320	.6078
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.133	103.32	138.19
Stddev	1.031	2.47	.10
%RSD	2.0979	2.3933	.07582
#1	49.290	102.77	138.17
#2	50.077	106.02	138.10
#3	48.033	101.17	138.31
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30009-004A Acquired: 11/16/2015 16:16:03 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2W9A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26247.	6280.3	369480.
Stddev	130.	57.9	7313.
%RSD	.49548	.92265	1.9792
#1	26203.	6291.8	371880.
#2	26393.	6217.4	361270.
#3	26144.	6331.6	375300.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.059%	98.614%	99.233%
Range			

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Sample Name: CCV003 Acquired: 11/16/2015 16:20:49 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV003

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	746.44	49376.	2439.5	9448.0	1059.5	48276.	964.2
Stddev	9.10	199.	3.6	53.5	20.0	178.	2.0
%RSD	1.2185	.40283	.14583	.56676	1.8835	.36944	.2089
#1	751.16	49148.	2441.6	9386.3	1069.8	48076.	963.6
#2	735.96	49514.	2435.4	9481.5	1036.5	48420.	962.4
#3	752.21	49465.	2441.4	9476.4	1072.2	48331.	966.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4727.5	10318.	12398.	24351.	36720.	49150.	4978.7
Stddev	9.6	283.	31.	40.	224.	311.	84.5
%RSD	.20411	2.7391	.25344	.16423	.6108	.6320	1.6963
#1	4729.8	10089.	12369.	24312.	36470.	48790.	4944.7
#2	4716.9	10231.	12394.	24351.	36770.	49290.	4916.6
#3	4735.7	10634.	12432.	24392.	36920.	49360.	5074.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV003 Acquired: 11/16/2015 16:20:49 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV003

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	959.68	25635.	4680.1	9130.8	2388.8	1204.0	993.7
Stddev	2.33	119.	8.6	15.4	1.7	2.9	12.5
%RSD	.24241	.46247	.18414	.16878	.06978	.23822	1.262
#1	959.33	25498.	4685.1	9137.1	2390.7	1204.2	999.2
#2	957.55	25707.	4670.2	9113.3	2388.0	1201.0	979.3
#3	962.16	25700.	4685.0	9142.1	2387.7	1206.7	1003.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	915.91	2528.1	4793.4
Stddev	1.33	30.7	8.7
%RSD	.14490	1.2162	.18239
#1	916.64	2544.0	4797.4
#2	914.38	2492.6	4783.4
#3	916.72	2547.6	4799.5
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV003 Acquired: 11/16/2015 16:20:49 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV003

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24754.	6132.5	354110.
Stddev	74.	51.5	2999.
%RSD	.29765	.83948	.84688
#1	24676.	6174.4	354750.
#2	24822.	6148.2	356740.
#3	24766.	6075.0	350850.

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Sample Name: CCB003 Acquired: 11/16/2015 16:26:01 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB003

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08296	-82.825	-.16551	.74863	.04270	-9.8278	-.0107
Stddev	.17494	19.222	1.0281	.05889	.00628	5.7503	.0963
%RSD	210.88	23.207	621.19	7.8658	14.707	58.511	902.1
#1	.07441	-65.491	-.20139	.68282	.04860	-3.5192	-.0999
#2	-.05195	-79.488	-1.1752	.79633	.04339	-11.188	.0914
#3	-.27133	-103.50	.88010	.76675	.03610	-14.776	-.0235
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13197	.14960	-.26446	-4.2147	204.3	-4.627	.05536
Stddev	.08339	.21981	.22738	3.3281	16.3	51.93	.01866
%RSD	63.193	146.94	85.977	78.965	7.995	1122.	33.712
#1	-.03749	-.08897	-.00597	-1.3249	186.1	14.11	.07320
#2	-.19535	.19382	-.35387	-3.4656	208.9	-63.32	.03597
#3	-.16306	.34394	-.43355	-7.8535	217.8	35.33	.05690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB003 Acquired: 11/16/2015 16:26:01 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB003

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1798	38.363	.12564	-.30013	-.30505	.06496	-.1215
Stddev	.3195	23.785	.19088	1.4882	.40136	1.3341	.1311
%RSD	27.076	62.001	151.93	495.86	131.57	2053.8	107.9
#1	1.4023	48.902	.04202	1.3661	-.46085	-1.4014	-.1657
#2	.81380	11.129	-.00916	-1.4974	.15086	1.2068	-.2247
#3	1.3235	55.057	.34406	-.76901	-.60515	.38949	.0260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.62368	.27263	-.12553
Stddev	1.1929	.20023	.01265
%RSD	191.28	73.445	10.080
#1	.57674	.11912	-.11630
#2	-1.8090	.19965	-.12034
#3	-.63876	.49912	-.13995
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB003 Acquired: 11/16/2015 16:26:01 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB003

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26479.	6166.1	381700.
Stddev	167.	22.6	1396.
%RSD	.63193	.36594	.36573
#1	26533.	6182.7	382510.
#2	26614.	6175.2	380090.
#3	26292.	6140.4	382500.

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Sample Name: QJ30009-005 Acquired: 11/16/2015 16:30:50 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2X5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16986	55.583	11.097	128.04	.11408	8996.2	.2101
Stddev	.44519	88.788	.571	.75	.01510	56.6	.1220
%RSD	262.09	159.74	5.1481	.58686	13.239	.62868	58.08
#1	.33873	136.44	10.649	128.10	.10571	8963.1	.2559
#2	-.35935	-39.432	10.902	127.25	.13152	8964.0	.0718
#3	-.48896	69.737	11.741	128.75	.10502	9061.5	.3025
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.51788	1.4456	2.7094	1512.4	3138.	2020.	88.038
Stddev	.14039	.2279	.0079	15.8	86.	67.	1.082
%RSD	27.108	15.761	.29201	1.0421	2.737	3.296	1.2291
#1	.36684	1.6779	2.7041	1495.3	3238.	1957.	87.454
#2	.64437	1.4366	2.7185	1526.3	3089.	2012.	89.287
#3	.54242	1.2224	2.7057	1515.5	3089.	2090.	87.374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30009-005 Acquired: 11/16/2015 16:30:50 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2X5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.31568	21266.	1.1082	6.9905	.31377	2.3591	.6171
Stddev	.17103	75.	.1935	1.4012	.76444	1.2682	.1126
%RSD	54.179	.35229	17.458	20.044	243.63	53.759	18.25
#1	.11820	21266.	1.0967	5.6872	.93356	1.6092	.6552
#2	.41618	21192.	.92079	8.4725	-.54042	3.8233	.7056
#3	.41266	21342.	1.3072	6.8119	.54816	1.6447	.4903
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.1220	.83567	74.657
Stddev	.2304	.32011	.273
%RSD	20.534	38.305	.36546
#1	1.1986	1.1087	74.348
#2	.86304	.48340	74.759
#3	1.3043	.91486	74.864
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30009-005 Acquired: 11/16/2015 16:30:50 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2X5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26266.	6301.6	371210.
Stddev	42.	84.8	4187.
%RSD	.16061	1.3452	1.1280
#1	26221.	6213.1	371590.
#2	26271.	6382.1	366850.
#3	26305.	6309.7	375200.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.130%	98.950%	99.698%
Range			

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Sample Name: QJ30009-006 Acquired: 11/16/2015 16:35:38 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2X6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07634	72.394	11.210	77.222	.06012	11395.	.1250
Stddev	.40184	27.668	1.847	1.087	.01064	47.	.1149
%RSD	526.41	38.218	16.473	1.4075	17.699	.41234	91.85
#1	.39712	63.575	11.678	76.065	.07188	11342.	.0056
#2	.20629	103.40	12.777	78.221	.05731	11409.	.1348
#3	-.37440	50.211	9.1739	77.382	.05117	11432.	.2347
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.73127	2.3122	1.6570	2701.3	4080.	2422.	151.08
Stddev	.07207	.1486	.5151	23.9	58.	25.	1.62
%RSD	9.8555	6.4250	31.083	.88331	1.420	1.052	1.0737
#1	.78137	2.2175	2.1945	2673.9	4067.	2422.	151.74
#2	.64867	2.4834	1.6087	2717.6	4144.	2396.	149.23
#3	.76377	2.2357	1.1678	2712.3	4030.	2447.	152.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30009-006 Acquired: 11/16/2015 16:35:38 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2X6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17659	24065.	.93495	7.5509	.82048	3.2758	.5270
Stddev	.12341	98.	.07180	.4644	1.6649	1.1005	.0753
%RSD	69.885	.40574	7.6801	6.1507	202.92	33.596	14.28
#1	.19944	23956.	.90936	7.7544	-.41900	2.0364	.4478
#2	.28699	24145.	1.0160	7.0195	.16752	3.6526	.5354
#3	.04335	24093.	.87944	7.8789	2.7129	4.1385	.5977
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3271	.94900	17.482
Stddev	.3428	.18858	.107
%RSD	25.829	19.871	.61236
#1	1.3692	.77118	17.572
#2	1.6468	.92908	17.364
#3	.96518	1.1468	17.511
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30009-006 Acquired: 11/16/2015 16:35:38 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC2X6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26958.	6436.3	383000.
Stddev	11.	66.4	1867.
%RSD	.04069	1.0316	.48748
#1	26971.	6383.1	382910.
#2	26953.	6415.2	384910.
#3	26951.	6510.7	381180.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.74%	101.06%	102.86%
Range			

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Sample Name: QJ30016-001 Acquired: 11/16/2015 16:40:26 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MC0KP5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.67120	-80.135	.93193	105.74	.05151	6742.2	-.0121
Stddev	.37559	80.409	1.2674	1.22	.01059	5.1	.0658
%RSD	55.959	100.34	136.00	1.1523	20.556	.07506	541.8
#1	-.40975	-37.193	2.2351	104.96	.04314	6747.6	-.0569
#2	-1.1016	-30.315	-.29645	105.11	.06342	6741.2	.0634
#3	-.50225	-172.90	.85712	107.14	.04798	6737.7	-.0429
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02997	.30916	2.9035	-.37428	1814.	1806.	5.5419
Stddev	.14277	.49839	.2802	5.4562	67.	52.	.0140
%RSD	476.37	161.21	9.6506	1457.8	3.690	2.858	.25265
#1	-.17393	.75696	3.1413	5.3961	1833.	1859.	5.5523
#2	.11158	.39831	2.9747	-5.4497	1739.	1756.	5.5260
#3	-.02756	-.22779	2.5946	-1.0692	1869.	1802.	5.5475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30016-001 Acquired: 11/16/2015 16:40:26 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MC0KP5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.0234	5719.7	-.08006	.14775	-.59617	2.1829	-.2350
Stddev	.0478	24.7	.20184	.79585	1.3449	.6676	.0968
%RSD	2.3635	.43230	252.13	538.66	225.60	30.584	41.18
#1	2.0058	5747.8	-.10886	-.20289	-.50396	1.4712	-.1761
#2	2.0775	5701.2	-.26595	-.41257	.70029	2.2824	-.1822
#3	1.9868	5710.2	.13464	1.0587	-1.9848	2.7953	-.3466
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3678	.44267	8.9253
Stddev	.5063	.07898	.0370
%RSD	37.021	17.842	.41413
#1	1.9341	.48002	8.8969
#2	1.2103	.49605	8.9671
#3	.95887	.35194	8.9119
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30016-001 Acquired: 11/16/2015 16:40:26 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MC0KP5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26647.	6239.8	379360.
Stddev	68.	35.5	2674.
%RSD	.25410	.56867	.70488
#1	26575.	6240.0	379400.
#2	26658.	6275.2	376660.
#3	26709.	6204.2	382000.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.57%	97.979%	101.89%
Range			

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Sample Name: QJ30016-001L(5) Acquired: 11/16/2015 16:45:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MC0KP5L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.34617	6.3884	-.17837	20.938	.02990	1456.2	.0400
Stddev	.34083	100.87	.45333	.051	.01146	2.7	.1942
%RSD	98.455	1579.0	254.15	.24291	38.338	.18316	485.6
#1	-.34823	89.921	.31285	20.902	.01695	1453.1	-.1402
#2	-.68597	34.922	-.58062	20.916	.03400	1457.7	.2458
#3	-.00432	-105.68	-.26734	20.997	.03874	1457.7	.0144
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01630	-.01740	.11480	62.416	460.3	348.7	1.3131
Stddev	.11594	.10717	.77055	12.909	72.1	40.0	.0596
%RSD	711.18	615.92	671.24	20.683	15.66	11.47	4.5383
#1	-.14897	.05633	-.39916	55.792	389.6	303.4	1.3808
#2	.06551	-.14033	-.25722	54.163	533.7	363.3	1.2900
#3	.03456	.03180	1.0008	77.292	457.5	379.3	1.2685
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30016-001L(5) Acquired: 11/16/2015 16:45:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MC0KP5L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27984	1223.1	.13116	.54617	.98861	1.7595	-.3045
Stddev	.22828	24.9	.43883	1.1022	.48884	2.1800	.1728
%RSD	81.573	2.0319	334.58	201.80	49.448	123.90	56.76
#1	.48902	1209.2	-.36097	.23041	.75690	2.4159	-.4884
#2	.31415	1251.8	.27268	1.7717	.65870	-.67334	-.1454
#3	.03635	1208.3	.48176	-.36365	1.5502	3.5358	-.2796
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.08623	.36419	1.6834
Stddev	.07522	.09172	.0632
%RSD	87.234	25.185	3.7564
#1	.17304	.31918	1.7429
#2	.04036	.30367	1.6903
#3	.04529	.46972	1.6170
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30016-001L(5) Acquired: 11/16/2015 16:45:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MC0KP5L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26834.	6210.2	378770.
Stddev	157.	27.2	4197.
%RSD	.58327	.43718	1.1081
#1	26931.	6230.4	383470.
#2	26654.	6220.9	377420.
#3	26918.	6179.3	375410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.28%	97.514%	101.73%
Range			

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Sample Name: QJ30016-001DU Acquired: 11/16/2015 16:50:03 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MC0KP5D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06446	32.724	1.1759	100.29	.05572	6452.4	.0320
Stddev	.27666	15.241	.3006	.97	.00546	40.9	.0512
%RSD	429.17	46.574	25.564	.96863	9.7998	.63341	159.9
#1	.22829	22.932	1.2862	99.191	.05277	6407.7	.0256
#2	-.32157	24.957	.83575	101.03	.05238	6487.9	.0862
#3	-.10010	50.284	1.4058	100.66	.06203	6461.7	-.0156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05499	-.03664	2.3508	5.6241	1719.	1773.	6.5652
Stddev	.15619	.06292	.4475	13.949	57.	57.	.0943
%RSD	284.05	171.71	19.035	248.02	3.308	3.237	1.4365
#1	.00931	-.01585	2.7814	18.677	1660.	1719.	6.6224
#2	.22892	-.10733	1.8882	-9.0745	1774.	1767.	6.4564
#3	-.07327	.01325	2.3829	7.2693	1725.	1833.	6.6169
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30016-001DU Acquired: 11/16/2015 16:50:03 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MC0KP5D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.8096	5483.4	-.08920	-.78964	-1.3713	1.7711	-.1831
Stddev	.2862	16.0	.12460	.15253	1.5398	.6662	.2281
%RSD	15.818	.29104	139.69	19.317	112.28	37.617	124.6
#1	1.6612	5466.1	-.03467	-.66499	-.14640	2.3505	-.3902
#2	2.1395	5486.5	-.00116	-.95973	-3.0998	1.9195	.0615
#3	1.6280	5497.6	-.23176	-.74419	-.86770	1.0431	-.2205
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.53171	.34744	8.6889
Stddev	1.3312	.14443	.1107
%RSD	250.37	41.570	1.2736
#1	2.0105	.39457	8.7953
#2	.15552	.46240	8.5744
#3	-.57093	.18533	8.6970
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30016-001DU Acquired: 11/16/2015 16:50:03 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MC0KP5D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26699.	6229.7	380450.
Stddev	77.	76.9	1778.
%RSD	.28944	1.2339	.46731
#1	26771.	6292.7	378610.
#2	26617.	6144.0	380590.
#3	26710.	6252.3	382160.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.77%	97.820%	102.18%
Range			

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Sample Name: QJ30016-001MS Acquired: 11/16/2015 16:54:52 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MC0KP5S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.859	1902.6	37.479	1941.0	49.493	6569.9	45.00
Stddev	.134	37.7	.272	5.3	.366	22.9	.09
%RSD	.27434	1.9793	.72607	.27527	.73924	.34791	.1979
#1	48.891	1942.5	37.660	1935.2	49.584	6556.5	45.01
#2	48.974	1867.7	37.611	1945.8	49.805	6596.3	44.90
#3	48.712	1897.4	37.166	1941.9	49.090	6557.0	45.08
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	460.41	196.39	238.58	962.28	1796.	1728.	510.59
Stddev	.51	1.28	.94	13.55	19.	54.	3.46
%RSD	.11148	.65317	.39408	1.4079	1.054	3.122	.67844
#1	460.07	196.40	238.48	954.36	1783.	1666.	510.34
#2	460.16	197.67	239.57	977.92	1818.	1760.	514.17
#3	461.00	195.10	237.69	954.56	1787.	1759.	507.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30016-001MS Acquired: 11/16/2015 16:54:52 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MC0KP5S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.5480	5539.9	454.75	17.852	92.463	95.612	-.1895
Stddev	.0965	13.9	.12	1.613	1.423	1.580	.1137
%RSD	6.2321	.25122	.02553	9.0343	1.5387	1.6524	60.00
#1	1.4392	5534.0	454.65	16.281	93.902	95.332	-.0933
#2	1.6233	5555.8	454.72	17.772	91.058	94.190	-.1603
#3	1.5813	5530.0	454.88	19.503	92.428	97.312	-.3150
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.241	473.13	473.64
Stddev	1.024	3.35	.20
%RSD	2.0794	.70862	.04313
#1	48.150	473.35	473.45
#2	50.181	476.36	473.62
#3	49.392	469.67	473.85
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30016-001MS Acquired: 11/16/2015 16:54:52 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MC0KP5S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26928.	6260.6	380420.
Stddev	62.	113.5	3485.
%RSD	.23190	1.8130	.91603
#1	26877.	6244.6	381520.
#2	26998.	6155.9	376510.
#3	26909.	6381.3	383220.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.63%	98.306%	102.17%
Range			

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Sample Name: QJ30016-001A Acquired: 11/16/2015 16:59:39 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MC0KP5A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.998	358.95	19.692	485.43	10.554	16532.	9.259
Stddev	.178	61.60	1.349	2.06	.103	55.	.047
%RSD	.89068	17.161	6.8505	.42424	.97402	.33419	.5048
#1	20.077	341.13	20.274	484.70	10.508	16508.	9.246
#2	19.794	427.49	18.149	487.75	10.483	16595.	9.311
#3	20.123	308.23	20.652	483.83	10.672	16492.	9.221
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.003	21.095	51.349	193.60	11850.	12010.	36.630
Stddev	.115	.453	.868	14.97	27.	54.	.392
%RSD	.12244	2.1453	1.6898	7.7333	.2281	.4531	1.0690
#1	93.973	21.296	50.604	210.16	11820.	11950.	36.447
#2	94.130	20.577	51.143	189.59	11870.	12040.	36.364
#3	93.906	21.412	52.302	181.04	11850.	12040.	37.080
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30016-001A Acquired: 11/16/2015 16:59:39 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MC0KP5A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.6981	16147.	74.390	19.020	113.96	71.377	-.0702
Stddev	.2275	18.	.135	1.074	.65	.857	.1253
%RSD	13.397	.11368	.18143	5.6483	.56955	1.2002	178.4
#1	1.4568	16168.	74.365	17.798	113.27	71.021	.0075
#2	1.7290	16135.	74.269	19.815	114.56	70.756	-.0034
#3	1.9086	16138.	74.536	19.447	114.04	72.354	-.2147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	48.886	100.61	123.58
Stddev	1.357	1.49	.04
%RSD	2.7765	1.4823	.03054
#1	48.925	99.633	123.57
#2	47.510	99.861	123.62
#3	50.223	102.32	123.54
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30016-001A Acquired: 11/16/2015 16:59:39 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MC0KP5A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26586.	6354.3	371180.
Stddev	95.	18.6	5101.
%RSD	.35789	.29260	1.3743
#1	26579.	6345.0	373630.
#2	26495.	6342.2	374600.
#3	26685.	6375.7	365320.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.34%	99.777%	99.691%
Range			

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Sample Name: QJ30016-002 Acquired: 11/16/2015 17:04:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MC0KQ8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01705	-58.941	.30859	.66222	.05558	-54.076	-.0693
Stddev	.39280	69.310	.76738	.20579	.00499	7.393	.2644
%RSD	2303.6	117.59	248.67	31.076	8.9860	13.671	381.4
#1	.41654	14.363	-.05526	.54027	.04984	-51.847	.1038
#2	-.36870	-67.778	-.20919	.89981	.05800	-62.327	.0619
#3	.00331	-123.41	1.1902	.54657	.05891	-48.054	-.3737
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01576	-.16474	1.1897	-2.8565	-69.41	-12.06	3.3808
Stddev	.10304	.25857	.5655	2.9716	39.11	7.47	.0573
%RSD	653.99	156.95	47.534	104.03	56.35	61.91	1.6938
#1	.13290	.13379	1.8115	.55432	-24.47	-19.94	3.3901
#2	-.02483	-.31792	1.0514	-4.8857	-88.01	-5.092	3.4328
#3	-.06081	-.31010	.70610	-4.2382	-95.75	-11.14	3.3194
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QJ30016-002 Acquired: 11/16/2015 17:04:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MC0KQ8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.25802	-15.215	-.05651	.97718	.73954	2.0504	-.3709
Stddev	.18693	17.287	.10608	1.0351	1.1424	.6525	.0438
%RSD	72.448	113.62	187.74	105.93	154.48	31.823	11.82
#1	-.47116	3.4719	-.02613	-.18735	1.2248	2.7211	-.3896
#2	-.12191	-18.482	-.17446	1.7926	1.5592	2.0123	-.3208
#3	-.18100	-30.637	.03108	1.3263	-.56541	1.4178	-.4023
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.37195	.03896	.96715
Stddev	.50962	.40589	.06518
%RSD	137.01	1041.8	6.7394
#1	.92182	.27506	1.0164
#2	.27853	.27154	.89323
#3	-.08449	-.42972	.99187
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QJ30016-002 Acquired: 11/16/2015 17:04:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MC0KQ8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27338.	6402.8	389800.
Stddev	203.	49.5	2551.
%RSD	.74423	.77339	.65450
#1	27365.	6430.4	392650.
#2	27123.	6345.7	389010.
#3	27527.	6432.5	387730.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.18%	100.54%	104.69%
Range			

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Sample Name: QK12004-001 Acquired: 11/16/2015 17:09:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.71655	-45.358	.01779	.52258	.04068	-64.936	-.0753
Stddev	.10152	57.595	.89710	.51566	.01112	3.720	.3415
%RSD	14.168	126.98	5041.8	98.675	27.330	5.7281	453.7
#1	-.73565	-71.953	-.60577	.42856	.04788	-61.233	.1096
#2	-.80715	-84.850	-.38678	1.0788	.04629	-68.672	-.4694
#3	-.60683	20.729	1.0459	.06041	.02788	-64.903	.1339
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11423	-.23479	-.42241	-8.6873	-85.70	4.604	5.3464
Stddev	.13803	.20617	.44192	13.920	73.16	19.82	.0607
%RSD	120.84	87.809	104.62	160.23	85.37	430.5	1.1355
#1	-.07056	-.35555	-.30490	5.9985	-166.2	-5.098	5.3998
#2	-.00331	-.35209	-.91120	-10.373	-67.69	-8.493	5.2804
#3	-.26881	.00326	-.05112	-21.688	-23.22	27.40	5.3591
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-001 Acquired: 11/16/2015 17:09:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.06169	70.838	-.02036	.51546	-.05594	1.9730	-.2248
Stddev	.08463	3.937	.20054	.36268	1.5517	.1907	.1486
%RSD	137.19	5.5579	984.97	70.360	2773.8	9.6662	66.09
#1	.03062	66.371	.17865	.11965	1.7295	2.0695	-.3371
#2	-.13562	72.343	-.01734	.59491	-1.0784	1.7533	-.0563
#3	-.08007	73.801	-.22240	.83183	-.81900	2.0962	-.2810
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.94464	.10984	.67268
Stddev	.93450	.14438	.14752
%RSD	98.927	131.45	21.929
#1	.41761	.11939	.74961
#2	.39269	.24921	.50261
#3	2.0236	-.03908	.76584
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-001 Acquired: 11/16/2015 17:09:15 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26816.	6322.3	381870.
Stddev	62.	48.2	4282.
%RSD	.23050	.76241	1.1212
#1	26831.	6341.2	378090.
#2	26748.	6358.1	386520.
#3	26868.	6267.5	381010.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.21%	99.274%	102.56%
Range			

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Sample Name: QK12004-002 Acquired: 11/16/2015 17:14:04 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05000	41.092	1.3254	22.259	.11114	27439.	-.0779
Stddev	.59696	35.793	.5652	.542	.00765	98.	.1508
%RSD	1193.8	87.103	42.645	2.4335	6.8865	.35674	193.5
#1	-.73662	79.549	1.1837	22.159	.11423	27326.	-.1485
#2	.24057	34.977	.84446	22.844	.10242	27496.	.0952
#3	.34603	8.7513	1.9479	21.774	.11676	27494.	-.1805
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23950	.95002	2.5134	309.63	1854.	5735.	34.738
Stddev	.04267	.44901	.7132	7.16	8.	66.	.907
%RSD	17.816	47.263	28.374	2.3132	.4118	1.144	2.6096
#1	.21076	.58330	2.9798	305.14	1850.	5759.	34.381
#2	.28852	.81597	1.6925	317.89	1849.	5786.	34.064
#3	.21920	1.4508	2.8680	305.86	1862.	5661.	35.768
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-002 Acquired: 11/16/2015 17:14:04 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19658	22950.	.46596	1.1952	-.07459	2.0321	2.064
Stddev	.12107	54.	.06993	.2754	.76341	1.2422	.284
%RSD	61.588	.23594	15.008	23.045	1023.5	61.130	13.78
#1	.11642	22888.	.46854	1.0745	-.27914	.83604	1.984
#2	.13747	22984.	.39477	1.5104	.77026	1.9443	1.828
#3	.33585	22980.	.53456	1.0007	-.71490	3.3158	2.380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.2153	.76881	2.8807
Stddev	1.0730	.20522	.1085
%RSD	88.285	26.693	3.7664
#1	.24019	.55577	2.7984
#2	2.3648	.78548	2.8401
#3	1.0410	.96519	3.0037
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-002 Acquired: 11/16/2015 17:14:04 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26117.	6197.3	366150.
Stddev	62.	25.2	8453.
%RSD	.23604	.40603	2.3086
#1	26096.	6181.8	368340.
#2	26186.	6183.7	373290.
#3	26069.	6226.3	356810.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.568%	97.312%	98.338%
Range			

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Sample Name: QK12004-002L(5) Acquired: 11/16/2015 17:18:52 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7F5L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54133	26.271	.94274	5.1528	.05730	5725.4	.0777
Stddev	.31216	58.446	.27505	.2068	.01508	11.0	.1077
%RSD	57.666	222.47	29.176	4.0128	26.316	.19137	138.5
#1	-.68584	-38.003	.81116	5.2929	.07460	5722.0	.0995
#2	-.18309	40.589	.75819	5.2501	.04692	5737.6	.1729
#3	-.75506	76.228	1.2589	4.9153	.05038	5716.6	-.0391
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.05466	.13180	.10876	123.41	484.9	1160.	7.1039
Stddev	.10473	.15617	.56186	21.26	19.0	20.	.0710
%RSD	191.59	118.49	516.58	17.230	3.928	1.697	.99918
#1	.04979	-.01224	-.52324	113.51	476.2	1162.	7.1514
#2	.16175	.10988	.55169	147.81	471.7	1179.	7.0223
#3	-.04754	.29778	.29785	108.89	506.7	1140.	7.1380
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-002L(5) Acquired: 11/16/2015 17:18:52 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7F5L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.03047	4862.9	.03110	.31109	-.35162	1.1148	.1919
Stddev	.05807	4.7	.07620	.54672	.64615	.1634	.2096
%RSD	190.56	.09617	245.01	175.74	183.77	14.661	109.2
#1	.02423	4861.2	.04105	.82506	-.45025	1.1874	.1271
#2	-.09140	4868.2	.10184	.37156	-.94278	.92762	.0223
#3	-.02425	4859.3	-.04959	-.26336	.33818	1.2293	.4262
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.37275	-.06474	.60589
Stddev	.45186	.09959	.04353
%RSD	121.22	153.83	7.1844
#1	.84382	-.04548	.56430
#2	-.05707	-.17256	.60223
#3	.33150	.02381	.65113
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-002L(5) Acquired: 11/16/2015 17:18:52 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7F5L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26581.	6209.7	374470.
Stddev	90.	28.6	2898.
%RSD	.33953	.46018	.77385
#1	26634.	6242.4	375270.
#2	26632.	6189.6	376890.
#3	26477.	6197.1	371260.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.32%	97.506%	100.57%
Range			

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Sample Name: QK12004-002DU Acquired: 11/16/2015 17:23:39 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7F5D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.38150	138.09	1.1915	21.280	.11072	26861.	-.0786
Stddev	.18999	100.74	.8652	.558	.00669	251.	.0813
%RSD	49.801	72.950	72.616	2.6217	6.0389	.93296	103.4
#1	-.53322	74.624	2.1824	20.747	.10823	26656.	-.1026
#2	-.44287	85.407	.58489	21.860	.11829	26788.	.0120
#3	-.16841	254.25	.80737	21.233	.10563	27140.	-.1451
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09423	.78921	2.5319	294.43	1825.	5736.	28.189
Stddev	.22025	.15826	.8534	13.61	47.	50.	.855
%RSD	233.73	20.053	33.707	4.6226	2.573	.8764	3.0336
#1	.33753	.96880	3.5136	282.77	1815.	5719.	28.957
#2	-.09157	.72866	2.1150	291.14	1783.	5697.	28.343
#3	.03675	.67016	1.9670	309.39	1876.	5793.	27.268
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-002DU Acquired: 11/16/2015 17:23:39 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7F5D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.29745	22531.	.54809	1.6536	.66121	.94070	2.042
Stddev	.09433	230.	.11755	.3352	.62157	1.2401	.120
%RSD	31.713	1.0191	21.446	20.269	94.005	131.83	5.852
#1	.22514	22357.	.52324	1.6311	-.04827	-.46005	2.060
#2	.26305	22445.	.67608	1.3302	1.1099	1.3836	2.151
#3	.40415	22791.	.44497	1.9994	.92200	1.8986	1.914
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.2297	.89153	2.9508
Stddev	.9707	.18573	.1004
%RSD	78.943	20.833	3.4024
#1	1.7102	1.0465	2.8728
#2	.11238	.68564	3.0640
#3	1.8664	.94250	2.9155
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-002DU Acquired: 11/16/2015 17:23:39 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7F5D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26123.	6271.9	370420.
Stddev	604.	138.3	9169.
%RSD	2.3116	2.2059	2.4753
#1	26820.	6151.5	361680.
#2	25756.	6423.1	369610.
#3	25794.	6241.2	379970.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.593%	98.483%	99.485%
Range			

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Sample Name: QK12004-002MS Acquired: 11/16/2015 17:28:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F5S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47.724	2206.6	38.791	1820.2	49.230	27636.	44.84
Stddev	.681	152.1	1.166	4.7	.468	24.	.16
%RSD	1.4269	6.8940	3.0064	.25552	.95080	.08811	.3595
#1	48.188	2212.8	37.487	1817.6	49.726	27610.	44.91
#2	48.042	2051.5	39.734	1817.4	49.166	27659.	44.65
#3	46.942	2355.5	39.151	1825.6	48.797	27637.	44.95
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	452.37	195.21	231.23	1369.5	1913.	5840.	518.11
Stddev	.72	2.18	1.78	19.0	60.	47.	5.28
%RSD	.15989	1.1186	.76873	1.3864	3.118	.7978	1.0189
#1	451.73	197.67	232.50	1353.3	1963.	5885.	523.63
#2	452.24	194.50	232.00	1390.4	1847.	5844.	517.59
#3	453.15	193.48	229.20	1364.8	1928.	5792.	513.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-002MS Acquired: 11/16/2015 17:28:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F5S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12264	23139.	445.28	18.224	91.963	97.736	3.273
Stddev	.23766	66.	.89	1.006	2.028	.219	.103
%RSD	193.79	.28460	.20068	5.5178	2.2051	.22394	3.137
#1	.33894	23155.	444.31	18.706	92.751	97.904	3.380
#2	-.13178	23067.	445.43	18.899	93.478	97.817	3.262
#3	.16075	23197.	446.08	17.069	89.659	97.489	3.176
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.111	472.05	464.92
Stddev	.699	4.99	.86
%RSD	1.4225	1.0580	.18433
#1	49.088	477.28	464.08
#2	49.820	471.55	464.87
#3	48.424	467.33	465.79
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-002MS Acquired: 11/16/2015 17:28:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F5S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26228.	6215.6	370830.
Stddev	90.	48.9	4402.
%RSD	.34290	.78751	1.1872
#1	26246.	6185.0	366250.
#2	26308.	6272.1	371190.
#3	26131.	6189.8	375030.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.988%	97.599%	99.594%
Range			

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Sample Name: QK12004-002A Acquired: 11/16/2015 17:33:14 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F5A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.102	515.90	21.648	408.93	10.718	37198.	9.583
Stddev	.642	51.26	1.087	.91	.146	21.	.100
%RSD	3.1963	9.9359	5.0237	.22169	1.3609	.05623	1.043
#1	19.406	558.00	22.593	408.02	10.582	37175.	9.602
#2	20.226	458.82	20.459	409.83	10.701	37216.	9.672
#3	20.673	530.90	21.893	408.93	10.872	37204.	9.475
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	97.128	21.876	51.060	529.11	12200.	16140.	64.590
Stddev	.344	.157	.411	14.54	106.	78.	.655
%RSD	.35438	.71881	.80541	2.7474	.8686	.4847	1.0147
#1	96.907	21.699	50.588	520.67	12280.	16150.	63.961
#2	96.953	22.000	51.341	545.90	12080.	16060.	64.538
#3	97.525	21.928	51.252	520.77	12240.	16210.	65.269
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-002A Acquired: 11/16/2015 17:33:14 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F5A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.35149	33192.	76.618	19.340	119.14	73.409	2.314
Stddev	.07406	53.	.339	1.685	1.41	2.059	.052
%RSD	21.071	.15979	.44221	8.7140	1.1873	2.8054	2.254
#1	.26812	33214.	76.701	17.550	117.73	75.780	2.374
#2	.40966	33231.	76.246	19.574	119.13	72.066	2.291
#3	.37668	33132.	76.908	20.896	120.56	72.381	2.278
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	50.324	102.24	121.51
Stddev	1.008	1.20	.13
%RSD	2.0029	1.1726	.10287
#1	50.641	101.05	121.49
#2	49.196	102.23	121.40
#3	51.136	103.45	121.65
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-002A Acquired: 11/16/2015 17:33:14 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F5A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25717.	6123.6	363340.
Stddev	19.	59.8	3375.
%RSD	.07349	.97581	.92888
#1	25736.	6119.7	364390.
#2	25698.	6185.2	366060.
#3	25717.	6065.9	359560.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.059%	96.154%	97.583%
Range			

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Sample Name: QK12004-003 Acquired: 11/16/2015 17:38:01 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.33326	127.00	1.8670	21.400	.09579	28368.	-.1588
Stddev	.45088	51.94	.1976	.121	.00756	123.	.1470
%RSD	135.30	40.901	10.585	.56397	7.8968	.43231	92.56
#1	-.43359	131.75	1.7372	21.437	.10014	28231.	-.0023
#2	-.72551	176.41	1.7693	21.265	.08705	28409.	-.1803
#3	.15934	72.847	2.0944	21.498	.10016	28465.	-.2939
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.18311	.74304	1.6619	395.53	1901.	6306.	44.781
Stddev	.10857	.12585	.4043	18.75	101.	51.	.709
%RSD	59.291	16.938	24.328	4.7402	5.300	.8029	1.5836
#1	.24275	.81919	1.4003	376.54	1798.	6266.	45.572
#2	.05779	.59778	1.4579	414.03	1906.	6363.	44.203
#3	.24878	.81217	2.1276	396.02	2000.	6289.	44.569
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-003 Acquired: 11/16/2015 17:38:01 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.42779	23717.	.40050	.16536	.19158	1.0499	2.691
Stddev	.20712	63.	.09747	1.2558	2.7197	1.2387	.028
%RSD	48.417	.26400	24.338	759.43	1419.6	117.98	1.049
#1	.56899	23692.	.51123	-1.2820	2.9574	-.14878	2.713
#2	.19002	23789.	.36261	.96589	.09690	.97339	2.700
#3	.52437	23671.	.32767	.81218	-2.4796	2.3250	2.659
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4734	.93117	4.0724
Stddev	1.4652	.16803	.0652
%RSD	99.446	18.045	1.6012
#1	2.0245	1.1079	4.0427
#2	-.18750	.77343	4.0273
#3	2.5830	.91219	4.1472
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-003 Acquired: 11/16/2015 17:38:01 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26270.	6237.4	365860.
Stddev	39.	43.6	3784.
%RSD	.14817	.69873	1.0342
#1	26315.	6224.0	361630.
#2	26242.	6202.1	367040.
#3	26255.	6286.1	368920.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.148%	97.941%	98.262%
Range			

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Sample Name: QK12004-004 Acquired: 11/16/2015 17:42:50 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29335	167.16	1.6511	21.984	.12001	34145.	-.2617
Stddev	.04055	109.05	.3232	1.173	.00662	194.	.0938
%RSD	13.824	65.232	19.576	5.3345	5.5156	.56710	35.85
#1	-.27937	43.959	1.2914	21.499	.11619	33923.	-.3240
#2	-.26165	251.27	1.9172	21.132	.12766	34236.	-.1538
#3	-.33905	206.27	1.7448	23.321	.11619	34277.	-.3074
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19084	.72339	2.3885	376.75	1985.	8444.	64.967
Stddev	.10111	.16224	.8242	21.41	45.	85.	.347
%RSD	52.984	22.428	34.507	5.6830	2.274	1.008	.53337
#1	.27902	.90244	3.3349	380.86	1970.	8375.	65.353
#2	.21301	.58615	2.0024	395.81	1950.	8539.	64.684
#3	.08048	.68158	1.8283	353.59	2036.	8418.	64.863
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-004 Acquired: 11/16/2015 17:42:50 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24020	28571.	.62197	-.34293	-1.5973	2.0281	1.869
Stddev	.22779	188.	.11085	1.4710	1.3731	.5869	.033
%RSD	94.831	.65880	17.822	428.95	85.967	28.936	1.760
#1	.45966	28354.	.64891	-1.6026	-1.1219	2.3237	1.891
#2	.00491	28691.	.50013	-.69985	-3.1450	2.4084	1.831
#3	.25604	28667.	.71686	1.2737	-.52506	1.3522	1.885
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.5195	.41207	2.4790
Stddev	1.3029	.06973	.0457
%RSD	85.745	16.921	1.8414
#1	1.3345	.44461	2.4892
#2	.31899	.33202	2.5187
#3	2.9050	.45958	2.4291
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-004 Acquired: 11/16/2015 17:42:50 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25851.	6231.9	366060.
Stddev	44.	78.6	1320.
%RSD	.17024	1.2606	.36058
#1	25835.	6288.3	367290.
#2	25901.	6142.2	366230.
#3	25818.	6265.1	364670.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.566%	97.854%	98.315%
Range			

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Sample Name: QK12004-005 Acquired: 11/16/2015 17:47:38 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.22136	85.347	1.3872	19.440	.09662	46999.	-.0041
Stddev	.57185	100.11	.3896	.580	.00075	110.	.0423
%RSD	258.34	117.29	28.083	2.9833	.77431	.23332	1041.
#1	.37039	14.064	1.5889	18.772	.09674	46923.	-.0432
#2	.70394	42.182	.93811	19.738	.09582	47124.	.0409
#3	-.41025	199.80	1.6345	19.811	.09730	46949.	-.0099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.06177	1.2964	.08823	383.74	2058.	13400.	137.03
Stddev	.11081	.2445	1.0943	5.08	76.	58.	.77
%RSD	179.39	18.861	1240.3	1.3249	3.703	.4309	.56542
#1	-.05382	1.1439	1.0661	388.54	2057.	13340.	137.89
#2	.07205	1.1669	.29237	384.28	1982.	13410.	136.39
#3	.16708	1.5784	-1.0938	378.41	2135.	13450.	136.80
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-005 Acquired: 11/16/2015 17:47:38 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15096	39177.	.11359	-.01221	.55404	2.5239	.6286
Stddev	.15436	72.	.21246	1.1547	1.2173	.1910	.1225
%RSD	102.25	.18384	187.04	9460.0	219.72	7.5679	19.49
#1	-.00003	39111.	-.11341	-.48587	-.85162	2.3786	.6717
#2	.14444	39253.	.14651	-.85477	1.2560	2.4529	.4904
#3	.30848	39166.	.30766	1.3040	1.2577	2.7402	.7238
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.70592	.38747	2.4138
Stddev	.79079	.22135	.0392
%RSD	112.02	57.129	1.6237
#1	1.3696	.48437	2.4148
#2	-.16905	.13419	2.3741
#3	.91722	.54385	2.4525
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-005 Acquired: 11/16/2015 17:47:38 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25853.	6261.6	366710.
Stddev	124.	46.3	3393.
%RSD	.48135	.73891	.92533
#1	25759.	6273.3	363190.
#2	25994.	6300.9	366990.
#3	25805.	6210.6	369960.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.572%	98.321%	98.490%
Range			

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Sample Name: QK12004-006 Acquired: 11/16/2015 17:52:26 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23803	16.848	1.4321	18.727	.09248	49152.	-.1453
Stddev	.27160	125.14	.6701	.456	.00536	111.	.0743
%RSD	114.11	742.74	46.787	2.4367	5.8004	.22517	51.14
#1	-.03660	-86.740	.76626	18.268	.08977	49096.	-.2101
#2	-.13057	-18.601	1.4238	18.732	.08901	49280.	-.1616
#3	-.54692	155.89	2.1063	19.181	.09866	49081.	-.0642
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19337	.81027	-.56254	313.61	2113.	14100.	136.40
Stddev	.08481	.39318	.51662	12.97	69.	168.	1.49
%RSD	43.860	48.525	91.838	4.1354	3.279	1.189	1.0954
#1	.16886	.49034	-1.0199	298.66	2045.	14040.	134.69
#2	.12352	1.2492	-.66553	321.91	2109.	14290.	137.41
#3	.28775	.69125	-.00218	320.25	2184.	13980.	137.11
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-006 Acquired: 11/16/2015 17:52:26 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16767	41202.	.25157	.32335	.89552	2.7984	.3349
Stddev	.15892	82.	.25323	1.0826	1.2205	1.1438	.1433
%RSD	94.781	.19914	100.66	334.79	136.29	40.874	42.80
#1	-.01249	41107.	.24159	-.13286	2.3022	4.1148	.1780
#2	.22753	41250.	.50964	-.45642	.26664	2.2324	.4590
#3	.28796	41248.	.00348	1.5593	.11771	2.0479	.3677
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0054	.24067	1.7072
Stddev	.6619	.10028	.0628
%RSD	65.837	41.667	3.6771
#1	.53212	.33244	1.7772
#2	.72221	.25595	1.6559
#3	1.7617	.13363	1.6886
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-006 Acquired: 11/16/2015 17:52:26 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7F9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25719.	6171.7	368260.
Stddev	12.	45.7	3025.
%RSD	.04801	.73976	.82147
#1	25733.	6146.0	371010.
#2	25709.	6224.4	365020.
#3	25715.	6144.7	368760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.067%	96.910%	98.906%
Range			

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Sample Name: QK12004-007 Acquired: 11/16/2015 17:57:13 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44227	-15.917	1.2509	18.347	.08861	47988.	-.0652
Stddev	.22101	32.669	1.5834	.553	.01428	42.	.1003
%RSD	49.972	205.25	126.58	3.0160	16.112	.08698	153.7
#1	-.28899	-53.481	-.53291	18.913	.07543	48032.	.0264
#2	-.34220	5.8556	1.7955	18.322	.10377	47949.	-.0497
#3	-.69561	-.1247	2.4902	17.807	.08663	47983.	-.1724
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08048	.48367	.03048	257.66	2046.	13810.	95.657
Stddev	.09786	.14453	.35239	16.92	27.	47.	.700
%RSD	121.59	29.881	1156.0	6.5676	1.306	.3430	.73207
#1	.01971	.32049	.43725	241.41	2066.	13860.	95.401
#2	.19337	.53499	-.18180	275.18	2057.	13800.	96.449
#3	.02836	.59554	-.16400	256.38	2016.	13770.	95.121
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-007 Acquired: 11/16/2015 17:57:13 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11963	38928.	.38352	1.5846	-.50820	3.5526	.1042
Stddev	.13280	109.	.09178	1.0354	.58658	1.9388	.2644
%RSD	111.01	.27951	23.930	65.345	115.42	54.574	253.9
#1	-.12943	39014.	.34998	2.0881	-.73813	1.5664	.3109
#2	.01779	38965.	.48734	.39367	.15851	5.4402	.1953
#3	-.24727	38806.	.31322	2.2719	-.94499	3.6510	-.1938
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.33880	.31010	3.2617
Stddev	.70802	.07621	.0287
%RSD	208.98	24.575	.88053
#1	.63393	.39698	3.2811
#2	.85152	.25454	3.2287
#3	-.46904	.27879	3.2754
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-007 Acquired: 11/16/2015 17:57:13 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26105.	6256.9	367720.
Stddev	72.	81.4	1640.
%RSD	.27419	1.3003	.44584
#1	26148.	6333.8	367530.
#2	26145.	6171.7	366190.
#3	26023.	6265.1	369450.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.525%	98.247%	98.761%
Range			

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Sample Name: QK12004-008 Acquired: 11/16/2015 18:02:00 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.10918	21.733	1.5405	16.497	.12381	48243.	-.0578
Stddev	.24475	41.938	1.1765	1.183	.01300	1297.	.2026
%RSD	224.16	192.96	76.370	7.1687	10.501	2.6889	350.4
#1	-.07032	63.604	1.0184	15.144	.10920	46809.	-.2229
#2	-.37104	-20.271	2.8876	17.334	.13409	49334.	.1683
#3	.11381	21.867	.71538	17.014	.12815	48588.	-.1189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.06016	.42801	1.4274	202.83	1975.	14040.	83.953
Stddev	.01600	.27877	.9403	19.10	85.	394.	1.586
%RSD	26.588	65.132	65.872	9.4174	4.322	2.810	1.8888
#1	.07204	.29351	2.4934	184.68	1966.	13590.	85.756
#2	.04197	.24198	1.0727	222.76	2065.	14350.	82.771
#3	.06648	.74853	.71606	201.06	1895.	14170.	83.334
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-008 Acquired: 11/16/2015 18:02:00 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.21141	39036.	.04229	.06752	-1.2816	1.5470	-.0488
Stddev	.18339	1083.	.06504	1.5735	2.4601	1.0894	.1143
%RSD	86.746	2.7731	153.80	2330.6	191.95	70.420	234.3
#1	.41621	37816.	.03264	-.70655	-1.1989	.82296	-.1246
#2	.06238	39882.	-.01739	-.96903	-3.7820	1.0182	-.1043
#3	.15564	39410.	.11161	1.8781	1.1360	2.7999	.0827
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.95914	.49249	1.4631
Stddev	.87079	.23281	.0651
%RSD	90.789	47.272	4.4512
#1	.02084	.22456	1.5383
#2	1.1153	.64538	1.4257
#3	1.7413	.60754	1.4253
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-008 Acquired: 11/16/2015 18:02:00 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25277.	6080.5	354550.
Stddev	104.	141.6	6309.
%RSD	.41028	2.3286	1.7794
#1	25204.	6241.9	347270.
#2	25395.	5977.4	358540.
#3	25231.	6022.1	357820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.398%	95.477%	95.222%
Range			

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Sample Name: QK12004-009 Acquired: 11/16/2015 18:06:48 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30164	-30.099	.43166	16.738	.08617	51752.	-.0270
Stddev	.18664	116.06	1.2845	.615	.01107	83.	.0697
%RSD	61.875	385.61	297.58	3.6715	12.852	.16084	257.9
#1	-.08748	-97.909	-.98880	16.287	.08115	51733.	-.0601
#2	-.38782	103.92	.77212	16.490	.09887	51843.	-.0739
#3	-.42962	-96.304	1.5117	17.438	.07850	51680.	.0530
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09463	.88615	-.67107	143.55	1993.	16050.	58.160
Stddev	.23934	.29505	.61586	9.62	102.	44.	1.053
%RSD	252.92	33.296	91.773	6.7048	5.104	.2741	1.8113
#1	.26592	.83280	-.03421	154.51	1912.	16040.	58.524
#2	.19682	.62141	-.71547	139.66	1960.	16090.	58.984
#3	-.17884	1.2042	-1.2635	136.47	2107.	16000.	56.973
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-009 Acquired: 11/16/2015 18:06:48 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13122	40015.	-.03135	1.1172	.74808	.91425	-.0516
Stddev	.05028	103.	.14691	1.6909	1.4279	1.0069	.1443
%RSD	38.314	.25648	468.67	151.34	190.87	110.13	279.6
#1	.09859	39909.	.09285	.71459	.19470	1.7952	.0977
#2	.18912	40113.	.00663	-.33594	-.32029	-.18327	-.1903
#3	.10595	40024.	-.19352	2.9731	2.3698	1.1308	-.0622
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4189	.46000	7.5635
Stddev	.9011	.08913	.0462
%RSD	63.502	19.377	.61037
#1	1.5517	.55900	7.5523
#2	.45885	.38612	7.5241
#3	2.2462	.43488	7.6143
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-009 Acquired: 11/16/2015 18:06:48 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25807.	6160.9	368450.
Stddev	76.	104.0	6854.
%RSD	.29266	1.6883	1.8603
#1	25835.	6220.4	367080.
#2	25864.	6040.8	362380.
#3	25721.	6221.5	375880.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.398%	96.740%	98.956%
Range			

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Sample Name: CCV004 Acquired: 11/16/2015 18:11:35 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV004

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	753.50	49470.	2454.3	9592.2	1068.0	49022.	966.2
Stddev	17.18	370.	3.9	43.6	31.2	280.	.9
%RSD	2.2799	.74691	.15819	.45402	2.9201	.57103	.0949
#1	734.32	49114.	2454.8	9555.2	1037.2	48823.	966.1
#2	758.69	49444.	2450.2	9581.1	1067.4	48901.	965.4
#3	767.48	49852.	2457.9	9640.2	1099.5	49342.	967.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4747.3	10306.	12543.	24581.	37240.	49860.	5103.3
Stddev	2.9	217.	336.	136.	137.	216.	118.0
%RSD	.06134	2.1045	2.6790	.55491	.3676	.4329	2.3119
#1	4747.6	10071.	12283.	24437.	37120.	49780.	4998.9
#2	4744.3	10499.	12423.	24598.	37210.	49690.	5079.7
#3	4750.1	10346.	12922.	24709.	37390.	50100.	5231.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV004 Acquired: 11/16/2015 18:11:35 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV004

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	963.75	25773.	4698.9	9173.0	2397.4	1209.1	1005.
Stddev	1.45	110.	3.5	9.9	4.4	.9	24.
%RSD	.15055	.42851	.07345	.10775	.18255	.07602	2.344
#1	963.37	25726.	4698.2	9164.6	2398.1	1210.2	978.2
#2	962.53	25694.	4695.9	9170.5	2392.8	1208.8	1014.
#3	965.36	25899.	4702.7	9183.9	2401.4	1208.5	1023.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	920.38	2552.9	4819.8
Stddev	1.96	64.4	4.8
%RSD	.21322	2.5238	.09894
#1	921.11	2480.3	4818.4
#2	918.15	2575.2	4815.9
#3	921.86	2603.2	4825.1
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV004 Acquired: 11/16/2015 18:11:35 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV004

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24563.	6063.4	349020.
Stddev	66.	94.8	6767.
%RSD	.26926	1.5630	1.9388
#1	24615.	6067.4	356120.
#2	24585.	6156.1	348290.
#3	24488.	5966.7	342640.

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Sample Name: CCB004 Acquired: 11/16/2015 18:16:51 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB004

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54965	-44.611	-.81121	.35618	.04918	-14.152	-.0467
Stddev	.19226	20.736	.59777	.93326	.00902	7.000	.2261
%RSD	34.978	46.482	73.689	262.02	18.349	49.461	484.3
#1	-.33012	-68.467	-1.0347	1.1779	.04491	-21.823	-.2436
#2	-.68800	-30.902	-.13389	-.65845	.05955	-12.523	-.0968
#3	-.63084	-34.465	-1.2650	.54903	.04309	-8.1109	.2003
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04125	-.00447	-.39064	-9.9172	297.6	2.355	.02979
Stddev	.11530	.31382	.28935	9.5795	29.9	24.16	.03286
%RSD	279.54	7027.9	74.072	96.594	10.05	1026.	110.28
#1	.15413	.25483	-.64460	-19.501	315.7	28.53	.05638
#2	.04595	.08510	-.45168	-.3416	314.0	-19.08	.03995
#3	-.07634	-.35333	-.07563	-9.9096	263.1	-2.380	-.00694
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB004 Acquired: 11/16/2015 18:16:51 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB004

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2418	67.618	-.24181	.40609	-.28573	2.4657	-.1529
Stddev	.2153	6.120	.23538	1.6593	.51712	.6503	.0991
%RSD	17.337	9.0509	97.343	408.60	180.98	26.374	64.82
#1	1.4874	67.067	-.40818	-.41519	-.55814	1.7460	-.0765
#2	1.1526	61.792	.02751	2.3158	.31065	2.6399	-.1173
#3	1.0855	73.995	-.34476	-.68239	-.60969	3.0111	-.2649
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.09470	.12662	.28340
Stddev	.84314	.18209	.01244
%RSD	890.30	143.81	4.3910
#1	-1.0665	.05364	.29777
#2	.34083	.33388	.27636
#3	.44160	-.00766	.27606
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB004 Acquired: 11/16/2015 18:16:51 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB004

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26275.	6075.2	375230.
Stddev	161.	34.5	3253.
%RSD	.61456	.56749	.86691
#1	26359.	6094.6	371480.
#2	26378.	6095.6	377260.
#3	26089.	6035.4	376950.

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Sample Name: QK03007-011 Acquired: 11/16/2015 18:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MJHBR3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.27196	130.51	.43424	2.3834	.05429	99.936	-.0454
Stddev	.20992	3.33	.52833	.6762	.01264	4.347	.0372
%RSD	77.189	2.5532	121.67	28.372	23.290	4.3501	82.11
#1	-.13664	132.03	.80980	1.8888	.06765	101.16	-.0385
#2	-.16545	126.69	.66281	2.1075	.05271	103.54	-.0855
#3	-.51379	132.81	-.16989	3.1539	.04251	95.108	-.0120
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41968	2.0208	.46230	462.92	37.37	588.6	11.123
Stddev	.04885	.4201	.37201	4.16	46.17	21.1	.086
%RSD	11.640	20.791	80.471	.89829	123.5	3.585	.76988
#1	.37501	2.5056	.88800	458.13	8.503	609.0	11.025
#2	.47185	1.7640	.19965	465.56	90.63	589.9	11.156
#3	.41218	1.7927	.29924	465.07	12.99	566.9	11.187
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03007-011 Acquired: 11/16/2015 18:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MJHBR3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.39192	43.736	8.2610	.90054	1.1316	1.9677	9.328
Stddev	.16579	5.899	.0750	.43518	.5326	1.3407	.022
%RSD	42.302	13.488	.90824	48.325	47.063	68.132	.2321
#1	.41539	41.140	8.3430	1.2565	1.4105	.56816	9.351
#2	.54472	50.488	8.1959	.41540	.51753	3.2405	9.325
#3	.21564	39.580	8.2441	1.0297	1.4669	2.0946	9.308
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4385	.85852	1.5643
Stddev	.5319	.24202	.0338
%RSD	36.976	28.191	2.1609
#1	2.0045	.58627	1.5553
#2	.94896	.94002	1.5359
#3	1.3621	1.0493	1.6017
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03007-011 Acquired: 11/16/2015 18:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MJHBR3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26920.	6287.5	381190.
Stddev	49.	53.9	2637.
%RSD	.18072	.85791	.69171
#1	26975.	6349.1	384170.
#2	26882.	6248.8	379180.
#3	26903.	6264.6	380200.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.60%	98.727%	102.38%
Range			

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Sample Name: QK03007-012 Acquired: 11/16/2015 18:26:30 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MJHBW1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.49642	-47.474	-.20951	.21666	.05583	54.817	-.1637
Stddev	.43452	41.002	.44140	.18479	.01750	9.290	.1177
%RSD	87.531	86.367	210.68	85.290	31.337	16.948	71.93
#1	-.91873	-39.026	-.65221	.04309	.07585	65.238	-.0960
#2	-.51991	-11.354	-.20689	.41093	.04348	51.815	-.0954
#3	-.05063	-92.041	.23057	.19596	.04816	47.400	-.2996
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.04097	.09560	.21245	50.373	-51.97	-2.011	1.8935
Stddev	.08349	.26647	.05760	23.830	75.96	34.65	.0848
%RSD	203.79	278.73	27.111	47.308	146.1	1723.	4.4804
#1	-.03922	-.14197	.26575	23.111	-124.2	-13.82	1.9455
#2	.12741	.04505	.22024	67.242	-58.88	-29.21	1.7956
#3	.03472	.38373	.15135	60.765	27.20	37.00	1.9395
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03007-012 Acquired: 11/16/2015 18:26:30 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MJHBW1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08118	22.577	.14521	-.70720	.32378	1.3618	-.0122
Stddev	.09854	21.693	.17099	1.5188	2.0630	1.7032	.0682
%RSD	121.38	96.086	117.76	214.77	637.15	125.07	560.8
#1	.14978	26.821	.18265	-1.5328	-1.9909	-.60106	.0306
#2	.12551	41.834	.29438	-1.6344	1.9684	2.4500	-.0909
#3	-.03174	-.92500	-.04141	1.0456	.99387	2.2364	.0237
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3061	.41162	3.8262
Stddev	.5251	.07828	.0406
%RSD	40.204	19.017	1.0608
#1	1.1456	.35127	3.7863
#2	.87995	.50007	3.8674
#3	1.8927	.38352	3.8248
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03007-012 Acquired: 11/16/2015 18:26:30 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MJHBW1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26615.	6200.0	376900.
Stddev	121.	20.1	7056.
%RSD	.45357	.32406	1.8722
#1	26543.	6222.9	374660.
#2	26755.	6185.1	384810.
#3	26548.	6192.1	371240.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.45%	97.354%	101.23%
Range			

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Sample Name: QK03004-001(5) Acquired: 11/16/2015 18:31:19 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12083	25892.	5.9575	181.81	-.12701	8132.2	.2836
Stddev	.56933	129.	.9408	1.14	.00787	52.6	.1672
%RSD	471.20	.50005	15.792	.62674	6.1944	.64656	58.95
#1	-.43269	25759.	4.9410	180.65	-.11869	8071.5	.1365
#2	.70475	25900.	6.7978	181.86	-.13433	8162.3	.4654
#3	.09043	26017.	6.1337	182.92	-.12800	8162.9	.2487
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	153.93	470.40	37.736	104250.	1241.	200100.	1852.9
Stddev	.33	7.71	.043	764.	99.	1734.	76.9
%RSD	.21252	1.6384	.11364	.73250	7.972	.8666	4.1504
#1	153.98	478.94	37.767	103380.	1199.	198100.	1925.8
#2	153.58	463.97	37.753	104610.	1170.	200800.	1772.6
#3	154.23	468.28	37.687	104780.	1354.	201300.	1860.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-001(5) Acquired: 11/16/2015 18:31:19 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00937	335.92	2271.6	12.006	.10062	2.8212	1231.
Stddev	.21430	7.87	7.5	.629	1.8436	1.4323	21.
%RSD	2286.7	2.3415	.33119	5.2373	1832.2	50.768	1.717
#1	.22736	336.21	2269.6	11.431	-.41680	1.9712	1254.
#2	-.20104	343.63	2265.3	11.910	2.1477	4.4748	1214.
#3	.00179	327.91	2279.9	12.677	-1.4290	2.0175	1225.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.7700	89.310	110.50
Stddev	.3600	1.417	.45
%RSD	20.338	1.5864	.40511
#1	2.1774	90.925	110.35
#2	1.4952	88.278	110.15
#3	1.6373	88.725	111.01
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-001(5) Acquired: 11/16/2015 18:31:19 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25098.	6023.3	352290.
Stddev	69.	7.1	6763.
%RSD	.27657	.11811	1.9198
#1	25079.	6030.9	344590.
#2	25175.	6016.9	357250.
#3	25040.	6022.1	355030.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	94.723%	94.579%	94.616%
Range			

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Sample Name: QK03004-002(5) Acquired: 11/16/2015 18:36:11 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04360	25601.	5.4489	151.90	-.14594	7501.3	.1708
Stddev	.24437	249.	1.3461	1.36	.00827	71.3	.2561
%RSD	560.49	.97180	24.704	.89569	5.6698	.95025	150.0
#1	-.26189	25344.	4.0757	150.34	-.14382	7425.7	.4661
#2	.22039	25620.	6.7662	152.56	-.15507	7510.9	.0095
#3	-.08929	25840.	5.5049	152.80	-.13893	7567.3	.0367
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	111.73	338.21	40.056	82222.	1046.	125800.	1511.8
Stddev	.30	6.66	.985	588.	61.	1131.	28.3
%RSD	.26847	1.9692	2.4594	.71491	5.846	.8991	1.8720
#1	112.08	332.93	39.698	81578.	1032.	124500.	1488.3
#2	111.53	345.69	41.171	82359.	993.4	126600.	1543.3
#3	111.59	336.01	39.301	82730.	1113.	126200.	1503.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-002(5) Acquired: 11/16/2015 18:36:11 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02012	247.07	1793.7	3.2571	-.01343	2.7395	1261.
Stddev	.25486	17.06	2.9	1.8591	3.8959	.4103	24.
%RSD	1266.5	6.9031	.16210	57.080	29016.	14.979	1.873
#1	.28524	229.48	1794.0	4.8153	4.4244	2.2807	1242.
#2	-.00182	248.19	1790.7	1.1992	-2.8704	3.0716	1287.
#3	-.22305	263.53	1796.5	3.7568	-1.5943	2.8661	1254.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.4884	96.216	84.596
Stddev	.8477	1.936	.075
%RSD	56.956	2.0117	.08866
#1	.84636	94.732	84.668
#2	1.1695	98.405	84.518
#3	2.4493	95.511	84.602
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-002(5) Acquired: 11/16/2015 18:36:11 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25523.	6110.2	358320.
Stddev	8.	71.9	6355.
%RSD	.03218	1.1760	1.7736
#1	25514.	6150.1	364410.
#2	25529.	6153.2	351730.
#3	25526.	6027.3	358820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.326%	95.944%	96.236%
Range			

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Sample Name: QK03004-003(5) Acquired: 11/16/2015 18:40:56 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.20143	39687.	7.4084	263.43	-.27028	12503.	.2985
Stddev	.28415	66.	1.3904	.96	.00958	10.	.1904
%RSD	141.06	.16754	18.768	.36458	3.5455	.07845	63.78
#1	-.52939	39650.	8.9534	263.05	-.27120	12513.	.1597
#2	-.02904	39764.	7.0139	264.52	-.26027	12501.	.2203
#3	-.04587	39647.	6.2579	262.72	-.27938	12494.	.5156
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	136.42	393.17	64.986	109830.	1828.	154600.	1822.9
Stddev	.52	4.15	.496	171.	43.	793.	14.9
%RSD	.38234	1.0547	.76399	.15569	2.332	.5128	.81934
#1	135.95	394.25	64.774	109630.	1792.	154300.	1824.7
#2	136.32	396.66	65.553	109920.	1816.	154000.	1836.8
#3	136.98	388.58	64.631	109940.	1875.	155500.	1807.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-003(5) Acquired: 11/16/2015 18:40:56 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.03445	446.69	2454.2	5.8558	.90374	3.0982	2137.
Stddev	.25322	8.48	2.0	1.0176	.51312	2.3668	17.
%RSD	734.92	1.8987	.08266	17.378	56.777	76.390	.8120
#1	-.20357	438.66	2453.2	6.7036	.33048	5.4510	2138.
#2	.00641	455.56	2452.8	6.1364	1.3201	3.1261	2154.
#3	.30053	445.85	2456.5	4.7273	1.0607	.71770	2120.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.49794	143.41	127.45
Stddev	.71625	1.56	.11
%RSD	143.84	1.0862	.08411
#1	1.0279	143.22	127.36
#2	-.31692	145.05	127.43
#3	.78283	141.96	127.57
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-003(5) Acquired: 11/16/2015 18:40:56 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25423.	6073.1	358570.
Stddev	24.	79.4	2856.
%RSD	.09622	1.3076	.79652
#1	25447.	6128.1	356010.
#2	25398.	5982.0	358050.
#3	25425.	6109.1	361650.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	95.950%	95.361%	96.304%
Range			

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Sample Name: QK03004-004(5) Acquired: 11/16/2015 18:45:41 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.16575	33967.	8.4582	237.14	-.39998	11393.	.3153
Stddev	.58601	2945.	.8970	18.00	.00969	865.	.1611
%RSD	353.56	8.6705	10.606	7.5912	2.4233	7.5928	51.09
#1	-.33932	33305.	7.5712	233.92	-.40464	11198.	.3490
#2	-.64536	31410.	9.3650	220.96	-.40646	10643.	.1400
#3	.48745	37187.	8.4384	256.53	-.38883	12339.	.4568
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	90.054	308.07	77.496	83439.	1679.	92880.	1691.9
Stddev	.301	4.36	.871	6431.	146.	7020.	26.0
%RSD	.33464	1.4168	1.1243	7.7078	8.700	7.558	1.5390
#1	89.758	312.91	78.502	81793.	1687.	90960.	1721.4
#2	90.361	304.42	77.007	77990.	1530.	87030.	1671.9
#3	90.043	306.89	76.980	90533.	1822.	100700.	1682.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-004(5) Acquired: 11/16/2015 18:45:41 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.06207	456.98	1414.4	7.2812	2.0424	2.8028	2328.
Stddev	.36235	20.50	2.2	1.7334	2.1474	1.2120	36.
%RSD	583.80	4.4864	.15596	23.806	105.14	43.242	1.547
#1	.13359	463.02	1412.8	7.8465	1.4103	2.1008	2369.
#2	.38332	434.14	1413.5	8.6613	4.4349	2.1054	2301.
#3	-.33071	473.79	1416.9	5.3357	.28193	4.2023	2314.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.03229	136.20	128.22
Stddev	.66380	2.40	.20
%RSD	2056.0	1.7606	.15608
#1	.09956	138.88	128.08
#2	.65989	134.25	128.14
#3	-.66259	135.48	128.45
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-004(5) Acquired: 11/16/2015 18:45:41 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25908.	6300.5	360290.
Stddev	75.	421.8	7049.
%RSD	.29110	6.6952	1.9565
#1	25824.	6424.4	352490.
#2	25969.	6646.5	366190.
#3	25931.	5830.6	362210.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.780%	98.932%	96.766%
Range			

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Sample Name: QK03004-005(5) Acquired: 11/16/2015 18:50:26 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09802	25095.	5.9277	183.56	-.01546	8824.6	.1433
Stddev	.39079	1317.	1.4625	9.20	.01266	469.8	.1376
%RSD	398.69	5.2476	24.672	5.0092	81.860	5.3243	96.00
#1	-.28356	26600.	4.4610	193.96	-.00456	9359.4	.3008
#2	.49742	24530.	5.9362	180.23	-.01248	8636.7	.0461
#3	.08020	24155.	7.3860	176.50	-.02934	8477.9	.0831
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	164.29	640.18	37.973	110020.	1862.	232200.	1897.1
Stddev	.61	12.06	1.641	5904.	125.	12010.	37.5
%RSD	.37356	1.8833	4.3209	5.3659	6.733	5.174	1.9786
#1	163.66	652.92	39.641	116710.	1970.	245700.	1937.4
#2	164.32	628.94	36.361	107830.	1892.	228000.	1863.1
#3	164.89	638.69	37.918	105530.	1724.	222800.	1890.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-005(5) Acquired: 11/16/2015 18:50:26 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12074	262.96	2645.6	5.7460	-1.5788	2.9221	919.8
Stddev	.08723	19.14	10.7	1.3091	1.2433	2.7429	18.7
%RSD	72.242	7.2774	.40485	22.782	78.749	93.865	2.032
#1	-.17178	284.38	2639.9	5.1791	-1.0737	4.4300	939.8
#2	-.17042	247.53	2639.0	4.8160	-.66761	4.5803	902.9
#3	-.02003	256.98	2658.0	7.2430	-2.9953	-.24387	916.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.6052	80.604	112.38
Stddev	.8310	1.401	.25
%RSD	31.896	1.7383	.22499
#1	3.5413	82.078	112.37
#2	1.9548	79.289	112.14
#3	2.3195	80.445	112.64
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-005(5) Acquired: 11/16/2015 18:50:26 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25486.	5853.7	359290.
Stddev	21.	304.2	5428.
%RSD	.08190	5.1960	1.5107
#1	25462.	5519.9	353250.
#2	25497.	5926.2	363760.
#3	25499.	6115.1	360860.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.186%	91.916%	96.496%
Range			

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Sample Name: QK03004-006(5) Acquired: 11/16/2015 18:55:16 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.11815	31220.	4.3890	127.72	-.40627	12129.	.2406
Stddev	.07909	207.	.7460	.38	.01173	73.	.2906
%RSD	66.936	.66417	16.997	.29365	2.8876	.59862	120.8
#1	-.14069	31040.	4.7825	127.69	-.40475	12078.	.3521
#2	-.03024	31174.	4.8559	127.36	-.39537	12097.	-.0892
#3	-.18352	31447.	3.5286	128.11	-.41869	12212.	.4589
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	66.575	557.75	44.208	72095.	1287.	84120.	1238.4
Stddev	.075	2.90	.328	483.	85.	581.	6.9
%RSD	.11292	.52080	.74182	.66986	6.608	.6906	.56013
#1	66.490	556.29	43.830	71935.	1252.	83670.	1233.4
#2	66.604	561.09	44.413	71713.	1224.	83900.	1246.3
#3	66.632	555.86	44.380	72638.	1383.	84780.	1235.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-006(5) Acquired: 11/16/2015 18:55:16 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.12550	409.99	1082.3	6.1928	.19175	.77920	1928.
Stddev	.18779	8.92	.2	.5037	2.1299	1.8280	11.
%RSD	149.63	2.1762	.01942	8.1342	1110.8	234.60	.5556
#1	.00634	405.84	1082.1	6.2674	2.4454	2.5952	1920.
#2	-.04233	403.90	1082.4	5.6559	-1.7878	-1.0606	1940.
#3	-.34052	420.23	1082.4	6.6550	-.08236	.80298	1924.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.80364	121.97	90.324
Stddev	.85229	.69	.130
%RSD	106.05	.56885	.14395
#1	.00797	121.25	90.468
#2	-1.6915	122.63	90.292
#3	-.72739	122.03	90.214
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-006(5) Acquired: 11/16/2015 18:55:16 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25650.	6001.6	364100.
Stddev	75.	39.4	2450.
%RSD	.29212	.65650	.67294
#1	25675.	6014.6	366060.
#2	25566.	6032.8	361350.
#3	25709.	5957.3	364880.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.806%	94.238%	97.787%
Range			

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Sample Name: QK03004-007(5) Acquired: 11/16/2015 19:00:02 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07757	39459.	7.1437	299.17	-.14971	8733.8	.1135
Stddev	.23837	496.	.7216	2.34	.00612	79.4	.0132
%RSD	307.28	1.2569	10.101	.78119	4.0877	.90910	11.62
#1	-.19741	38968.	7.9622	296.64	-.14316	8642.2	.1257
#2	.20469	39451.	6.8695	299.63	-.15529	8781.2	.1154
#3	.22544	39959.	6.5995	301.24	-.15069	8778.1	.0995
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	106.56	358.14	52.429	86455.	1370.	117300.	1613.1
Stddev	.14	.63	.454	615.	46.	996.	3.1
%RSD	.13430	.17666	.86653	.71144	3.327	.8492	.19522
#1	106.71	357.41	52.187	85784.	1399.	116100.	1610.3
#2	106.42	358.47	52.147	86587.	1318.	117900.	1612.6
#3	106.56	358.53	52.953	86993.	1394.	117800.	1616.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-007(5) Acquired: 11/16/2015 19:00:02 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07476	419.47	1867.5	7.9155	2.0036	2.5645	1860.
Stddev	.42660	10.54	3.9	2.0315	.5288	2.3854	4.
%RSD	570.59	2.5135	.21051	25.665	26.391	93.016	.2134
#1	-.55594	426.86	1863.3	10.183	2.5937	.25499	1856.
#2	.07454	407.40	1868.1	7.3032	1.5726	5.0192	1859.
#3	.25711	424.16	1871.0	6.2607	1.8446	2.4194	1864.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.63989	107.80	108.29
Stddev	.54809	.09	.35
%RSD	85.654	.08591	.32638
#1	.65769	107.73	107.88
#2	.08311	107.76	108.51
#3	1.1789	107.91	108.47
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-007(5) Acquired: 11/16/2015 19:00:02 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25672.	6062.1	364190.
Stddev	164.	92.7	235.
%RSD	.63847	1.5295	.06466
#1	25775.	6156.7	364460.
#2	25758.	5971.4	364010.
#3	25483.	6058.2	364110.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.890%	95.188%	97.813%
Range			

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Sample Name: QK03004-008(5) Acquired: 11/16/2015 19:04:48 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.14107	35723.	8.0404	212.44	-.35843	12828.	.3317
Stddev	.55904	120.	.9836	.54	.01210	18.	.1392
%RSD	396.28	.33684	12.233	.25252	3.3751	.14015	41.98
#1	-.59280	35614.	7.1239	212.00	-.35548	12836.	.2352
#2	-.31456	35852.	9.0796	213.03	-.34808	12841.	.4913
#3	.48414	35702.	7.9177	212.28	-.37173	12808.	.2686
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	101.33	362.43	56.972	93687.	1619.	114100.	1587.9
Stddev	.36	5.91	.651	210.	57.	390.	26.9
%RSD	.35802	1.6316	1.1418	.22443	3.525	.3417	1.6963
#1	100.95	369.05	57.651	93548.	1564.	113700.	1618.1
#2	101.36	360.56	56.355	93929.	1613.	114400.	1579.2
#3	101.68	357.67	56.910	93584.	1678.	114300.	1566.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-008(5) Acquired: 11/16/2015 19:04:48 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10483	398.13	1769.1	7.3536	2.0896	1.8740	2103.
Stddev	.25538	17.75	1.7	.5042	1.7408	.3266	35.
%RSD	243.61	4.4582	.09854	6.8566	83.310	17.429	1.688
#1	.35567	408.08	1768.2	7.5917	.17143	2.2344	2143.
#2	-.15485	408.68	1768.0	7.6948	2.5280	1.7900	2089.
#3	.11366	377.64	1771.1	6.7745	3.5693	1.5976	2076.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.60466	129.69	114.25
Stddev	.72302	2.08	.20
%RSD	119.58	1.6052	.17795
#1	-.62833	131.97	114.27
#2	.12990	129.21	114.04
#3	-1.3156	127.88	114.45
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-008(5) Acquired: 11/16/2015 19:04:48 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25590.	6070.4	356520.
Stddev	71.	27.4	7616.
%RSD	.27868	.45154	2.1362
#1	25545.	6054.9	349560.
#2	25673.	6054.2	355330.
#3	25553.	6102.0	364650.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.581%	95.318%	95.751%
Range			

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Sample Name: QK03004-009(5) Acquired: 11/16/2015 19:09:34 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00457	51104.	15.091	355.10	-.44704	13395.	.3170
Stddev	.15384	167.	.993	.72	.01380	14.	.0737
%RSD	3368.6	.32726	6.5788	.20263	3.0878	.10362	23.24
#1	.09445	50922.	15.716	354.34	-.45888	13386.	.2993
#2	.09232	51138.	15.610	355.18	-.45036	13411.	.2537
#3	-.17307	51251.	13.946	355.77	-.43188	13389.	.3978
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	116.09	300.66	98.481	105530.	2484.	88460.	2266.4
Stddev	.65	3.07	.929	95.	18.	66.	50.3
%RSD	.55746	1.0210	.94302	.08990	.7171	.0745	2.2178
#1	115.59	303.60	99.439	105420.	2483.	88410.	2274.4
#2	115.86	300.89	98.420	105580.	2502.	88430.	2312.3
#3	116.82	297.48	97.584	105580.	2467.	88530.	2212.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-009(5) Acquired: 11/16/2015 19:09:34 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07318	676.27	1440.3	9.2843	2.2206	4.1454	2898.
Stddev	.17513	4.35	4.5	2.4539	1.3811	1.3524	31.
%RSD	239.31	.64261	.31177	26.431	62.195	32.623	1.073
#1	-.11846	671.92	1436.9	7.9277	.90017	2.8023	2929.
#2	.11309	680.61	1438.8	12.117	3.6553	4.1272	2897.
#3	.22491	676.28	1445.4	7.8081	2.1064	5.5069	2867.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.63984	183.70	166.59
Stddev	1.3299	1.67	.38
%RSD	207.84	.90967	.22823
#1	1.5568	185.45	166.42
#2	1.2481	183.54	166.32
#3	-.88537	182.12	167.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-009(5) Acquired: 11/16/2015 19:09:34 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25881.	6104.8	364160.
Stddev	32.	77.5	3639.
%RSD	.12435	1.2693	.99937
#1	25849.	6141.5	361950.
#2	25881.	6157.1	362170.
#3	25913.	6015.8	368360.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.678%	95.859%	97.805%
Range			

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Sample Name: QK03004-009L(5) Acquired: 11/16/2015 19:14:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBR8L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.26392	10374.	2.5506	71.809	-.05844	2775.7	.1928
Stddev	.27930	27.	.6539	.751	.00880	10.9	.0546
%RSD	105.83	.26400	25.637	1.0456	15.052	.39146	28.30
#1	-.39018	10372.	3.0769	70.994	-.05020	2763.2	.2110
#2	-.45779	10348.	2.7564	71.961	-.05743	2782.1	.1315
#3	.05622	10403.	1.8186	72.473	-.06771	2781.9	.2359
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23.734	59.521	19.801	21511.	519.2	18060.	457.20
Stddev	.155	.795	.471	72.	36.8	80.	4.45
%RSD	.65303	1.3360	2.3778	.33556	7.080	.4428	.97416
#1	23.894	59.391	19.638	21472.	560.1	18000.	455.54
#2	23.584	58.800	19.433	21467.	488.9	18040.	453.81
#3	23.725	60.374	20.332	21594.	508.5	18150.	462.25
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-009L(5) Acquired: 11/16/2015 19:14:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBR8L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01610	143.13	293.61	1.4558	.78721	2.7094	572.7
Stddev	.12530	21.73	.38	.6720	1.5000	1.3706	5.9
%RSD	778.11	15.183	.12831	46.163	190.55	50.588	1.033
#1	-.12708	118.76	293.89	1.6318	2.4843	1.1662	571.1
#2	.10573	160.51	293.18	.71329	-.36122	3.7853	567.8
#3	.06965	150.10	293.75	2.0224	.23857	3.1765	579.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.06286	36.567	33.660
Stddev	.59808	.526	.043
%RSD	951.49	1.4378	.12882
#1	.73476	36.331	33.685
#2	-.13489	36.201	33.610
#3	-.41131	37.170	33.685
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-009L(5) Acquired: 11/16/2015 19:14:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBR8L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26110.	6016.4	374020.
Stddev	34.	35.3	2488.
%RSD	.13078	.58734	.66529
#1	26081.	6034.9	374150.
#2	26148.	6038.7	376440.
#3	26101.	5975.7	371460.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.542%	94.472%	100.45%
Range			

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Sample Name: QK03004-009DU(5) Acquired: 11/16/2015 19:19:17 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBR8D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01464	51520.	13.498	354.50	-.44734	13843.	.3397
Stddev	.26293	702.	.810	3.61	.00491	129.	.0223
%RSD	1795.5	1.3628	6.0021	1.0194	1.0987	.93467	6.558
#1	-.13144	51844.	13.553	355.90	-.44607	13853.	.3574
#2	.28645	50715.	14.279	350.39	-.44319	13709.	.3471
#3	-.19894	52002.	12.661	357.20	-.45277	13967.	.3147
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	116.74	309.36	98.847	105510.	2629.	91370.	2230.4
Stddev	.16	3.01	1.195	1082.	37.	871.	43.3
%RSD	.13856	.97386	1.2092	1.0253	1.401	.9531	1.9419
#1	116.68	309.55	99.307	105760.	2620.	91620.	2216.8
#2	116.62	306.26	97.491	104320.	2597.	90400.	2195.6
#3	116.93	312.28	99.745	106440.	2669.	92090.	2278.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-009DU(5) Acquired: 11/16/2015 19:19:17 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBR8D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.44410	693.44	1469.1	9.8081	2.8190	2.3573	2868.
Stddev	.04768	22.50	3.3	1.1269	2.8863	.8495	8.
%RSD	10.736	3.2453	.22658	11.489	102.39	36.038	.2662
#1	.41735	716.95	1468.1	9.1511	.15461	3.2913	2876.
#2	.41580	672.10	1466.4	11.109	5.8851	1.6307	2861.
#3	.49915	691.27	1472.9	9.1639	2.4172	2.1497	2867.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.28115	181.38	171.18
Stddev	.08400	1.80	.52
%RSD	29.877	.99097	.30184
#1	.22275	180.89	170.98
#2	.24328	179.88	170.80
#3	.37741	183.37	171.77
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-009DU(5) Acquired: 11/16/2015 19:19:17 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBR8D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25727.	6162.3	366260.
Stddev	44.	85.5	2603.
%RSD	.17110	1.3868	.71062
#1	25772.	6087.3	366020.
#2	25684.	6255.3	368970.
#3	25726.	6144.4	363780.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.098%	96.762%	98.368%
Range			

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Sample Name: QK03004-009MS(5) Acquired: 11/16/2015 19:24:13 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR8S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.941	46886.	27.675	1109.3	20.379	12144.	18.40
Stddev	.448	3057.	1.419	71.1	.374	769.	.01
%RSD	2.3654	6.5200	5.1277	6.4065	1.8346	6.3336	.0558
#1	18.518	50416.	26.157	1191.3	20.187	13032.	18.39
#2	19.411	45155.	27.901	1070.7	20.810	11709.	18.41
#3	18.894	45088.	28.968	1065.9	20.140	11690.	18.39
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	291.71	423.13	188.30	105360.	2356.	90950.	2355.7
Stddev	.38	7.33	2.81	6896.	159.	5840.	58.0
%RSD	.13180	1.7322	1.4936	6.5453	6.737	6.421	2.4620
#1	291.54	419.66	187.02	113320.	2527.	97690.	2356.0
#2	291.44	431.55	191.53	101730.	2214.	87900.	2413.6
#3	292.15	418.18	186.37	101040.	2325.	87270.	2297.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-009MS(5) Acquired: 11/16/2015 19:24:13 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR8S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.18710	692.77	1623.5	15.913	6.4404	38.179	2635.
Stddev	.15400	47.24	2.5	1.415	2.0141	.745	45.
%RSD	82.312	6.8190	.15573	8.8928	31.272	1.9520	1.706
#1	.01188	747.32	1622.1	14.290	8.1028	37.410	2613.
#2	.24841	665.49	1621.9	16.553	4.2007	38.898	2687.
#3	.30100	665.50	1626.4	16.894	7.0177	38.229	2605.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	19.140	356.32	343.65
Stddev	.975	6.25	.53
%RSD	5.0937	1.7531	.15419
#1	20.238	353.86	343.15
#2	18.376	363.42	343.58
#3	18.807	351.67	344.20
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-009MS(5) Acquired: 11/16/2015 19:24:13 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR8S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25785.	5837.2	358110.
Stddev	120.	423.4	7454.
%RSD	.46637	7.2531	2.0816
#1	25887.	5351.7	360240.
#2	25816.	6129.8	349830.
#3	25653.	6030.0	364270.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.317%	91.657%	96.181%
Range			

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Sample Name: QK03004-009A(5) Acquired: 11/16/2015 19:29:07 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR8A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.856	121300.	42.532	1020.1	4.0407	35544.
Stddev	.099	566.	.531	5.0	.0290	85.
%RSD	.91243	.46627	1.2491	.48544	.71699	.24010
#1	10.799	120690.	42.131	1014.6	4.0535	35445.
#2	10.971	121410.	42.330	1021.3	4.0075	35594.
#3	10.799	121810.	43.134	1024.3	4.0611	35592.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.307	313.37	712.31	255.37	F 242880.	11090.
Stddev	.050	.14	5.16	1.84	1043.	14.
%RSD	.9503	.04321	.72484	.71986	.42924	.1246
#1	5.278	313.47	710.84	254.84	241700.	11080.
#2	5.365	313.22	708.04	253.86	243280.	11090.
#3	5.277	313.43	718.05	257.42	243670.	11110.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK03004-009A(5) Acquired: 11/16/2015 19:29:07 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR8A

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	209500.	5179.2	1.0325	6969.1	3381.6	32.164
Stddev	497.	18.7	.0872	27.3	.1	.857
%RSD	.2373	.36152	8.4477	.39105	.00369	2.6647
#1	209200.	5190.1	.98982	6953.0	3381.4	33.114
#2	210100.	5157.6	1.1328	7000.6	3381.7	31.450
#3	209200.	5189.9	.97478	6953.7	3381.6	31.927
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	60.328	37.807	6770.	20.576	477.52	441.30
Stddev	1.453	1.288	49.	.308	4.80	.18
%RSD	2.4079	3.4057	.7253	1.4963	1.0050	.04062
#1	58.653	39.190	6786.	20.366	475.87	441.47
#2	61.102	37.588	6715.	20.929	473.77	441.11
#3	61.231	36.643	6809.	20.432	482.93	441.31
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK03004-009A(5) Acquired: 11/16/2015 19:29:07 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR8A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25679.	6162.1	363210.
Stddev	9.	40.1	3599.
%RSD	.03473	.65000	.99086
#1	25682.	6164.6	362770.
#2	25686.	6120.9	367020.
#3	25669.	6200.9	359860.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.916%	96.759%	97.550%
Range			

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Sample Name: QK03004-010(5) Acquired: 11/16/2015 19:34:08 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT1

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.14695	21442.	6.2733	202.93	-.00976	7226.3	.2897
Stddev	.17506	203.	.3947	.76	.00341	15.8	.0491
%RSD	119.13	.94461	6.2916	.37513	34.922	.21833	16.94
#1	-.20521	21335.	5.8204	202.77	-.00803	7231.5	.2339
#2	-.28546	21316.	6.4560	202.27	-.01369	7208.6	.3092
#3	.04981	21676.	6.5436	203.76	-.00757	7238.8	.3260
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	149.27	445.20	29.576	101580.	1549.	175600.	1741.9
Stddev	.05	.53	.275	215.	47.	417.	5.1
%RSD	.03495	.12013	.92980	.21212	3.011	.2375	.29406
#1	149.30	445.08	29.891	101810.	1599.	175800.	1737.2
#2	149.21	444.74	29.382	101390.	1539.	175100.	1741.2
#3	149.29	445.79	29.455	101540.	1508.	175800.	1747.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-010(5) Acquired: 11/16/2015 19:34:08 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT1

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.31996	391.29	2211.7	7.8145	1.5007	4.3418	900.9
Stddev	.43353	30.76	2.2	.2669	.9515	1.3574	1.9
%RSD	135.49	7.8608	.09916	3.4159	63.400	31.263	.2081
#1	-.77336	426.25	2214.1	8.0774	.69583	5.8341	899.1
#2	.09051	368.38	2209.7	7.5437	1.2556	4.0109	900.9
#3	-.27704	379.24	2211.4	7.8224	2.5508	3.1805	902.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.8564	76.510	115.24
Stddev	1.8538	.297	.32
%RSD	99.863	.38825	.27626
#1	2.0862	76.740	115.40
#2	-.10166	76.175	115.44
#3	3.5845	76.615	114.87
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-010(5) Acquired: 11/16/2015 19:34:08 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT1

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25678.	6114.0	364370.
Stddev	106.	107.1	2088.
%RSD	.41128	1.7519	.57303
#1	25636.	6022.9	365720.
#2	25600.	6232.0	365440.
#3	25798.	6087.1	361970.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.912%	96.003%	97.862%
Range			

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Sample Name: QK03004-011(5) Acquired: 11/16/2015 19:38:55 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT2

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.51857	36707.	6.1226	219.79	-.11256	8848.0	.2244
Stddev	.07882	62.	.0720	1.33	.00151	43.5	.2842
%RSD	15.199	.16805	1.1767	.60460	1.3418	.49213	126.7
#1	.49020	36704.	6.0400	220.60	-.11178	8809.5	-.0719
#2	.45787	36770.	6.1553	220.51	-.11430	8895.2	.4947
#3	.60765	36646.	6.1724	218.26	-.11159	8839.2	.2503
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	150.25	421.06	69.082	100570.	1499.	136700.	2493.2
Stddev	1.09	6.72	1.496	288.	115.	135.	46.2
%RSD	.72460	1.5970	2.1659	.28599	7.638	.0984	1.8528
#1	149.88	427.34	70.441	100550.	1368.	136700.	2546.2
#2	149.40	421.86	69.327	100870.	1581.	136900.	2471.6
#3	151.48	413.97	67.478	100290.	1547.	136600.	2461.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-011(5) Acquired: 11/16/2015 19:38:55 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT2

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.30381	552.77	2179.7	6.8244	-.26739	3.6185	1807.
Stddev	.04466	32.62	13.0	.4140	.78457	1.1787	27.
%RSD	14.699	5.9018	.59545	6.0662	293.41	32.575	1.484
#1	-.25430	564.43	2175.6	6.3680	-1.1720	4.9356	1835.
#2	-.31607	515.92	2169.2	7.1757	.14268	2.6627	1805.
#3	-.34106	577.96	2194.2	6.9295	.22716	3.2572	1782.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.1444	115.30	115.69
Stddev	1.2530	2.14	.75
%RSD	109.49	1.8520	.64407
#1	.80921	117.50	115.70
#2	.09306	115.17	114.95
#3	2.5309	113.24	116.44
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-011(5) Acquired: 11/16/2015 19:38:55 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT2

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25849.	6072.5	370870.
Stddev	277.	65.1	5568.
%RSD	1.0727	1.0715	1.5014
#1	26027.	6138.5	365790.
#2	25991.	6008.4	370000.
#3	25530.	6070.7	376820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.558%	95.352%	99.607%
Range			

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Sample Name: QK03004-012(5) Acquired: 11/16/2015 19:43:49 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09606	42689.	5.0769	121.56	-.45768	13346.	.2041
Stddev	.72355	111.	.3621	.98	.00749	37.	.1056
%RSD	753.23	.26096	7.1317	.80514	1.6364	.27870	51.75
#1	.56860	42565.	4.9183	121.35	-.45761	13333.	.3252
#2	.45650	42722.	4.8212	120.71	-.45023	13388.	.1566
#3	-.73692	42781.	5.4912	122.63	-.46521	13317.	.1306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	64.116	276.02	52.698	87261.	1222.	84130.	1339.8
Stddev	.080	1.81	.502	130.	39.	93.	9.2
%RSD	.12486	.65495	.95287	.14850	3.212	.1104	.68798
#1	64.189	274.24	52.454	87137.	1178.	84020.	1330.3
#2	64.128	275.95	53.276	87395.	1234.	84190.	1340.6
#3	64.030	277.85	52.366	87250.	1253.	84180.	1348.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-012(5) Acquired: 11/16/2015 19:43:49 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.22655	409.50	1119.2	4.8216	1.6358	3.4978	2343.
Stddev	.33220	25.57	2.4	.8959	.9019	1.7985	17.
%RSD	146.64	6.2436	.21319	18.581	55.133	51.417	.7234
#1	-.10230	431.83	1121.9	4.3121	2.5822	5.1876	2325.
#2	.02562	415.04	1117.6	4.2966	.78623	3.6985	2345.
#3	-.60297	381.61	1118.1	5.8560	1.5391	1.6074	2359.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.28163	156.31	112.61
Stddev	.91804	1.34	.07
%RSD	325.98	.85993	.05882
#1	-.50661	154.81	112.60
#2	.72799	156.71	112.68
#3	-1.0663	157.41	112.55
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-012(5) Acquired: 11/16/2015 19:43:49 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25829.	6137.2	364760.
Stddev	96.	49.5	946.
%RSD	.37235	.80610	.25935
#1	25821.	6184.7	365840.
#2	25738.	6086.0	364110.
#3	25930.	6140.8	364320.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.483%	96.367%	97.964%
Range			

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Sample Name: QK03004-013(5) Acquired: 11/16/2015 19:48:36 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07190	30337.	6.6989	209.95	-.33694	9193.9	.2418
Stddev	.51290	149.	.8569	.87	.00081	76.7	.1370
%RSD	713.33	.49156	12.792	.41383	.23914	.83472	56.66
#1	-.48032	30190.	6.9526	208.98	-.33605	9110.8	.1148
#2	.53336	30332.	5.7438	210.65	-.33763	9208.8	.2236
#3	.16267	30488.	7.4003	210.23	-.33715	9262.1	.3871
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	78.176	248.67	49.850	75062.	1407.	88820.	1389.4
Stddev	.277	6.04	1.245	483.	86.	697.	33.2
%RSD	.35457	2.4270	2.4979	.64323	6.125	.7843	2.3908
#1	78.463	242.47	48.548	74523.	1315.	88020.	1353.9
#2	77.910	248.99	49.974	75457.	1422.	89160.	1394.5
#3	78.156	254.53	51.029	75205.	1485.	89280.	1419.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-013(5) Acquired: 11/16/2015 19:48:36 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08696	452.93	1257.8	4.5309	.22308	2.5412	1895.
Stddev	.05477	27.80	2.3	1.7471	.82619	1.8546	46.
%RSD	62.982	6.1379	.18363	38.560	370.36	72.980	2.417
#1	.05214	457.62	1260.2	6.2251	1.1449	1.0637	1846.
#2	.05865	423.09	1255.6	2.7353	-.45068	4.6224	1900.
#3	.15009	478.09	1257.7	4.6322	-.02496	1.9375	1938.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.41714	111.51	109.19
Stddev	1.2674	2.61	.21
%RSD	303.84	2.3426	.18977
#1	.16836	108.71	109.41
#2	-1.8715	111.93	108.99
#3	.45170	113.88	109.18
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-013(5) Acquired: 11/16/2015 19:48:36 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25792.	5927.2	356920.
Stddev	93.	30.5	6668.
%RSD	.35905	.51462	1.8682
#1	25868.	5908.0	364270.
#2	25689.	5911.2	355230.
#3	25819.	5962.4	351260.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.343%	93.070%	95.860%
Range			

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Sample Name: QK03004-014(2) Acquired: 11/16/2015 19:53:21 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.24752	68937.	20.471	286.16	-1.5439	31051.	.7463
Stddev	.53204	82.	1.023	1.06	.0175	72.	.1387
%RSD	214.94	.11829	4.9972	.37010	1.1348	.23330	18.58
#1	.33514	69020.	20.204	287.37	-1.5265	31112.	.8470
#2	-.70749	68934.	21.600	285.40	-1.5615	31070.	.5881
#3	-.37021	68857.	19.607	285.72	-1.5437	30971.	.8037
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	62.501	544.77	110.41	122980.	4353.	88270.	2174.2
Stddev	.174	4.67	.64	339.	79.	254.	30.6
%RSD	.27899	.85720	.58059	.27582	1.817	.2875	1.4096
#1	62.675	540.14	109.84	123370.	4288.	88450.	2161.2
#2	62.501	544.70	111.10	122830.	4331.	88380.	2152.2
#3	62.327	549.48	110.29	122730.	4441.	87980.	2209.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-014(2) Acquired: 11/16/2015 19:53:21 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4528	1927.0	696.59	12.291	4.4027	3.5964	5605.
Stddev	.1460	18.8	1.00	.955	2.1733	1.7026	113.
%RSD	10.049	.97315	.14405	7.7711	49.363	47.342	2.016
#1	1.2842	1924.5	697.13	12.752	2.2731	1.6652	5498.
#2	1.5373	1909.6	695.43	11.193	6.6173	4.8809	5593.
#3	1.5369	1946.8	697.20	12.928	4.3179	4.2431	5723.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.8561	270.86	237.88
Stddev	1.1124	2.11	.53
%RSD	38.949	.77933	.22299
#1	-3.5561	268.88	238.18
#2	-3.4388	270.61	237.27
#3	-1.5734	273.08	238.20
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-014(2) Acquired: 11/16/2015 19:53:21 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26355.	6263.8	371960.
Stddev	102.	24.2	4524.
%RSD	.38589	.38574	1.2162
#1	26239.	6252.2	376160.
#2	26430.	6291.6	372560.
#3	26396.	6247.6	367170.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.467%	98.355%	99.900%
Range			

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Sample Name: CCV005 Acquired: 11/16/2015 19:58:25 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV005

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	740.38	48429.	2427.8	9487.8	1043.1	48295.	960.0
Stddev	3.48	229.	7.2	39.4	5.5	217.	1.4
%RSD	.46988	.47324	.29695	.41490	.52261	.44893	.1441
#1	742.17	48182.	2424.6	9445.2	1038.9	48046.	959.3
#2	742.61	48468.	2422.7	9522.9	1041.3	48441.	959.0
#3	736.37	48636.	2436.0	9495.3	1049.3	48397.	961.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4706.0	10175.	12326.	24229.	37130.	49280.	4991.2
Stddev	10.4	10.	155.	49.	91.	96.	48.4
%RSD	.22143	.09870	1.2560	.20209	.2457	.1951	.97065
#1	4704.2	10178.	12182.	24173.	37200.	49180.	4978.8
#2	4696.6	10164.	12306.	24250.	37160.	49380.	4950.1
#3	4717.2	10183.	12489.	24264.	37030.	49270.	5044.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV005 Acquired: 11/16/2015 19:58:25 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	954.75	26026.	4649.1	9092.3	2375.0	1199.8	982.3
Stddev	2.67	86.	9.2	18.1	5.4	1.6	6.5
%RSD	.27952	.32922	.19704	.19894	.22546	.13103	.6657
#1	952.60	25928.	4643.7	9076.0	2370.0	1198.2	986.5
#2	953.92	26072.	4643.9	9089.1	2374.4	1199.8	985.7
#3	957.74	26080.	4659.7	9111.8	2380.7	1201.4	974.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	911.23	2491.3	4774.7
Stddev	1.32	13.5	11.5
%RSD	.14460	.54312	.24100
#1	910.15	2498.5	4771.5
#2	910.85	2499.7	4765.2
#3	912.70	2475.7	4787.5
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV005 Acquired: 11/16/2015 19:58:25 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV005

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24761.	6005.5	356760.
Stddev	115.	37.2	871.
%RSD	.46511	.61956	.24411
#1	24889.	6016.2	357630.
#2	24731.	5964.1	356750.
#3	24664.	6036.2	355890.

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Sample Name: CCB005 Acquired: 11/16/2015 20:03:38 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB005

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.47760	33.047	1.0294	.31469	.03268	75.566	.0883
Stddev	.11304	52.593	.3337	.52466	.00505	6.227	.1335
%RSD	23.668	159.15	32.418	166.72	15.439	8.2409	151.2
#1	-.50433	-26.342	1.3008	.92051	.03290	72.147	.2038
#2	-.35359	73.729	1.1306	.01085	.02753	82.754	.1189
#3	-.57487	51.755	.65682	.01270	.03761	71.797	-.0579
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01395	.35101	-.58578	28.709	154.5	-6.095	.20516
Stddev	.08018	.14709	1.2038	6.636	88.4	28.38	.05270
%RSD	574.76	41.904	205.51	23.115	57.25	465.6	25.687
#1	.07860	.34569	-.19206	29.476	76.34	-12.53	.21372
#2	-.06230	.50068	.37189	34.927	136.6	24.95	.14870
#3	-.05814	.20665	-1.9372	21.722	250.5	-30.71	.25305
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB005 Acquired: 11/16/2015 20:03:38 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB005

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2107	69.797	-.09113	-.44615	-.48492	1.8751	-.0147
Stddev	.1441	8.002	.03208	.58546	.92398	1.5502	.0313
%RSD	11.903	11.465	35.203	131.23	190.54	82.672	213.6
#1	1.3262	76.804	-.06995	-.72560	-1.5055	1.7838	-.0210
#2	1.0492	71.511	-.07539	.22668	-.24391	3.4689	-.0423
#3	1.2567	61.077	-.12803	-.83952	.29467	.37256	.0193
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.59530	.25787	.29777
Stddev	1.5552	.16005	.04437
%RSD	261.25	62.067	14.901
#1	-.63157	.07708	.29115
#2	2.3445	.31504	.25708
#3	.07302	.38149	.34508
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB005 Acquired: 11/16/2015 20:03:38 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB005

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26481.	6008.2	376890.
Stddev	178.	91.9	8777.
%RSD	.67326	1.5304	2.3287
#1	26525.	6012.4	379340.
#2	26633.	6098.0	384180.
#3	26284.	5914.2	367150.

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Sample Name: QK03004-015 Acquired: 11/16/2015 20:08:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.50168	93429.	32.526	320.67	-2.5252	39286.
Stddev	.69541	352.	1.123	1.43	.0207	18.
%RSD	138.62	.37661	3.4533	.44693	.81977	.04607
#1	1.3042	93080.	32.447	320.81	-2.5478	39282.
#2	.07721	93783.	33.687	319.17	-2.5206	39270.
#3	.12361	93425.	31.445	322.03	-2.5071	39305.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7102	74.000	229.56	210.15	F 156110.	5610.
Stddev	.1575	.463	2.40	1.50	186.	84.
%RSD	22.17	.62617	1.0441	.71379	.11929	1.490
#1	.8207	73.486	232.20	211.80	155900.	5515.
#2	.7800	74.385	228.97	208.86	156170.	5672.
#3	.5299	74.130	227.51	209.80	156260.	5643.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK03004-015 Acquired: 11/16/2015 20:08:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT7

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72340.	2917.1	2.8739	3325.5	635.54	17.290
Stddev	115.	53.6	.0633	12.8	1.44	.636
%RSD	.1592	1.8383	2.2030	.38469	.22656	3.6801
#1	72430.	2977.6	2.8257	3324.0	635.25	16.831
#2	72380.	2898.4	2.9456	3339.0	634.26	18.016
#3	72210.	2875.4	2.8505	3313.6	637.10	17.022
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.3514	3.2346	7483.	-3.6014	367.65	327.50
Stddev	1.2213	1.2283	236.	1.5087	2.83	.72
%RSD	22.822	37.972	3.150	41.892	.77035	.22060
#1	4.7958	1.9497	7705.	-1.8596	370.91	326.82
#2	6.7516	3.3570	7235.	-4.4985	366.07	327.41
#3	4.5066	4.3971	7507.	-4.4460	365.95	328.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK03004-015 Acquired: 11/16/2015 20:08:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26548.	6319.6	375950.
Stddev	84.	155.8	3932.
%RSD	.31465	2.4645	1.0459
#1	26578.	6389.7	371700.
#2	26612.	6141.2	376700.
#3	26453.	6428.1	379460.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.19%	99.232%	100.97%
Range			

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Sample Name: QK03004-015(2) Acquired: 11/16/2015 20:13:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBT7

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23401	48244.	17.050	165.39	-1.1382	20516.	.3242
Stddev	.24332	141.	.626	.54	.0274	39.	.0185
%RSD	103.98	.29305	3.6734	.32566	2.4049	.18919	5.699
#1	-.48377	48205.	17.763	165.10	-1.1508	20472.	.3260
#2	.00232	48126.	16.801	166.02	-1.1571	20545.	.3418
#3	-.22056	48401.	16.587	165.06	-1.1068	20532.	.3049
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38.861	119.09	107.42	81458.	2844.	37740.	1548.5
Stddev	.055	1.28	1.12	369.	48.	201.	12.7
%RSD	.14233	1.0774	1.0385	.45327	1.684	.5335	.82064
#1	38.878	119.33	107.54	81036.	2897.	37510.	1548.2
#2	38.800	120.24	108.47	81721.	2803.	37840.	1561.4
#3	38.906	117.71	106.25	81618.	2833.	37870.	1536.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-015(2) Acquired: 11/16/2015 20:13:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBT7

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.2855	1758.0	333.67	9.7471	2.7550	4.2540	3934.
Stddev	.0651	18.7	.24	.8870	.7004	1.2879	30.
%RSD	5.0634	1.0615	.07243	9.1004	25.422	30.276	.7500
#1	1.2973	1761.2	333.68	8.7230	3.5170	2.8859	3947.
#2	1.3440	1774.8	333.42	10.246	2.6085	5.4430	3955.
#3	1.2154	1737.9	333.91	10.272	2.1394	4.4330	3900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.3399	189.93	171.30
Stddev	.3600	1.46	.15
%RSD	15.384	.77070	.09043
#1	-1.9470	190.00	171.13
#2	-2.6539	191.36	171.33
#3	-2.4189	188.44	171.43
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-015(2) Acquired: 11/16/2015 20:13:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBT7

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26174.	6072.5	371030.
Stddev	56.	35.6	2379.
%RSD	.21406	.58639	.64109
#1	26198.	6063.6	369180.
#2	26110.	6042.1	370200.
#3	26214.	6111.7	373720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.783%	95.351%	99.650%
Range			

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Sample Name: QK03004-016 Acquired: 11/16/2015 20:18:23 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.70302	144950.	33.330	487.17	-2.8551	72291.
Stddev	.14313	842.	.608	3.52	.0213	165.
%RSD	20.360	.58094	1.8240	.72306	.74753	.22879
#1	.64344	144030.	33.367	485.16	-2.8763	72118.
#2	.86632	145130.	33.918	485.10	-2.8552	72448.
#3	.59930	145690.	32.704	491.23	-2.8337	72309.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9112	82.318	293.19	194.23	F 212650.	8632.
Stddev	.0962	.516	2.52	2.27	266.	56.
%RSD	10.55	.62659	.85851	1.1671	.12487	.6473
#1	1.022	82.860	296.08	196.82	212350.	8597.
#2	.8556	81.833	291.98	192.57	212790.	8697.
#3	.8557	82.261	291.50	193.32	212820.	8603.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK03004-016 Acquired: 11/16/2015 20:18:23 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT8

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	87350.	3909.3	6.6657	6081.1	696.70	22.428
Stddev	58.	62.2	.2058	10.9	1.07	.844
%RSD	.0667	1.5912	3.0871	.17943	.15304	3.7648
#1	87370.	3981.1	6.9015	6069.8	697.92	21.651
#2	87290.	3871.9	6.5730	6091.6	696.19	23.327
#3	87400.	3875.0	6.5225	6081.8	695.98	22.306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.0852	2.6709	F 10010.	-5.0838	522.33	415.41
Stddev	1.2293	2.9989	156.	1.1739	5.27	.64
%RSD	13.531	112.28	1.556	23.091	1.0092	.15287
#1	9.8602	3.3929	9834.	-5.1241	528.42	416.13
#2	9.7278	5.2429	10120.	-6.2370	519.10	414.92
#3	7.6678	-.62314	10090.	-3.8902	519.49	415.17
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			10000.			
Low Limit			-10000.			

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Sample Name: QK03004-016 Acquired: 11/16/2015 20:18:23 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26659.	6305.2	374090.
Stddev	50.	55.8	2189.
%RSD	.18667	.88500	.58526
#1	26613.	6331.6	371610.
#2	26712.	6241.1	375750.
#3	26652.	6342.8	374930.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.61%	99.005%	100.47%
Range			

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Sample Name: QK03004-016(2) Acquired: 11/16/2015 20:23:25 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBT8

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01358	72702.	18.104	243.68	-1.2300	36525.	.5854
Stddev	.43962	312.	.572	.33	.0068	139.	.1667
%RSD	3237.1	.42953	3.1619	.13522	.55541	.38052	28.48
#1	.26255	72345.	18.085	243.31	-1.2309	36382.	.5675
#2	.21725	72926.	17.541	243.78	-1.2364	36532.	.4283
#3	-.52054	72835.	18.686	243.95	-1.2228	36660.	.7603
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.757	149.25	98.917	107570.	4288.	44440.	2010.3
Stddev	.271	1.46	1.019	312.	85.	194.	16.2
%RSD	.61842	.98123	1.0298	.29020	1.978	.4357	.80565
#1	43.876	148.33	98.109	107280.	4220.	44260.	2013.9
#2	43.947	148.48	98.582	107520.	4383.	44650.	1992.6
#3	43.447	150.94	100.06	107900.	4262.	44410.	2024.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-016(2) Acquired: 11/16/2015 20:23:25 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBT8

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.1593	3077.4	364.45	12.343	3.4963	2.6808	5077.
Stddev	.0687	23.8	.28	1.495	1.2031	.4660	70.
%RSD	2.1733	.77304	.07642	12.110	34.410	17.382	1.380
#1	3.2202	3093.7	364.57	12.955	3.1357	2.2728	5069.
#2	3.0849	3050.1	364.65	10.639	4.8385	2.5810	5011.
#3	3.1729	3088.4	364.13	13.434	2.5148	3.1886	5150.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.8072	265.49	216.89
Stddev	2.0230	2.89	.14
%RSD	72.063	1.0886	.06553
#1	-1.6956	263.57	217.02
#2	-5.1423	264.09	216.90
#3	-1.5838	268.81	216.74
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-016(2) Acquired: 11/16/2015 20:23:25 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBT8

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26500.	6141.1	376650.
Stddev	10.	32.5	3238.
%RSD	.03585	.52894	.85967
#1	26490.	6158.4	378260.
#2	26501.	6103.6	378770.
#3	26509.	6161.3	372920.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.01%	96.429%	101.16%
Range			

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Sample Name: QK03004-017 Acquired: 11/16/2015 20:28:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.49013	98543.	21.273	426.51	-1.4220	45082.
Stddev	.06532	384.	1.413	1.66	.0480	133.
%RSD	13.328	.38980	6.6435	.38845	3.3773	.29590
#1	.45166	98102.	22.872	424.84	-1.4039	45031.
#2	.56556	98726.	20.191	428.15	-1.4765	45233.
#3	.45318	98802.	20.755	426.55	-1.3857	44982.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6520	84.741	375.05	143.61	F 162440.	5323.
Stddev	.1488	.111	6.31	1.54	732.	93.
%RSD	22.82	.13147	1.6812	1.0702	.45037	1.753
#1	.5795	84.737	369.24	142.14	161930.	5220.
#2	.8231	84.632	381.76	145.21	163280.	5402.
#3	.5533	84.854	374.15	143.49	162120.	5348.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK03004-017 Acquired: 11/16/2015 20:28:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT9

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	105700.	3065.2	2.3721	2779.5	1012.5	13.985
Stddev	508.	36.5	.2135	30.1	1.8	2.183
%RSD	.4805	1.1917	9.0002	1.0828	.17618	15.610
#1	105900.	3039.2	2.6045	2744.8	1013.5	13.865
#2	106100.	3106.9	2.1847	2799.1	1010.4	11.864
#3	105100.	3049.4	2.3271	2794.4	1013.5	16.225
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.8491	2.4164	6740.	-3.2754	361.52	302.32
Stddev	1.0690	1.5220	60.	.6035	6.22	.29
%RSD	22.045	62.985	.8891	18.424	1.7193	.09689
#1	3.8358	3.2512	6805.	-3.9671	356.09	302.55
#2	4.7455	3.3385	6687.	-2.8569	368.30	301.99
#3	5.9662	.65973	6727.	-3.0022	360.15	302.42
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK03004-017 Acquired: 11/16/2015 20:28:27 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBT9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26134.	6232.9	363640.
Stddev	34.	46.4	6222.
%RSD	.13089	.74375	1.7110
#1	26167.	6191.7	370610.
#2	26136.	6224.0	358650.
#3	26098.	6283.1	361650.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.632%	97.871%	97.663%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK03004-017(2) Acquired: 11/16/2015 20:33:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBT9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.13239	50083.	11.543	213.55	-.66575	22721.	.3124
Stddev	.32211	359.	.520	1.14	.01019	120.	.1555
%RSD	243.29	.71654	4.5036	.53591	1.5301	.53002	49.78
#1	-.44410	49669.	11.899	212.25	-.66702	22592.	.4132
#2	-.15227	50303.	11.784	213.98	-.67524	22742.	.1333
#3	.19919	50278.	10.947	214.41	-.65499	22830.	.3907
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	45.275	194.95	73.725	82125.	2627.	53540.	1600.7
Stddev	.312	5.64	1.740	379.	61.	281.	46.3
%RSD	.68999	2.8955	2.3599	.46149	2.319	.5247	2.8902
#1	45.618	192.46	73.172	81707.	2600.	53300.	1581.5
#2	45.007	201.41	75.674	82445.	2584.	53460.	1653.4
#3	45.200	190.98	72.329	82224.	2697.	53850.	1567.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-017(2) Acquired: 11/16/2015 20:33:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBT9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4295	1417.3	532.23	8.6635	3.1550	3.2495	3466.
Stddev	.2887	13.6	.58	1.3625	1.8689	.7940	131.
%RSD	20.194	.96041	.10943	15.727	59.236	24.435	3.776
#1	1.7136	1433.0	531.58	10.237	5.1509	4.1663	3358.
#2	1.1364	1409.7	532.69	7.8839	1.4464	2.7791	3612.
#3	1.4383	1409.2	532.44	7.8698	2.8677	2.8032	3430.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.4064	185.99	159.18
Stddev	.6961	5.46	.19
%RSD	49.497	2.9347	.12180
#1	-.92363	183.88	159.13
#2	-2.2044	192.19	159.00
#3	-1.0912	181.90	159.39
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-017(2) Acquired: 11/16/2015 20:33:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBT9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26104.	6074.2	361590.
Stddev	93.	62.3	10505.
%RSD	.35751	1.0255	2.9054
#1	26004.	6006.3	365950.
#2	26118.	6128.7	349600.
#3	26189.	6087.6	369210.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.518%	95.378%	97.113%
Range			

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Sample Name: QK03004-018 Acquired: 11/16/2015 20:38:24 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBW0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.56920	112410.	29.441	481.37	-2.4510	53770.
Stddev	.08223	748.	.732	.47	.0396	334.
%RSD	14.446	.66567	2.4869	.09818	1.6154	.62114
#1	.57563	111560.	30.286	480.94	-2.4953	53400.
#2	.64803	112750.	29.050	481.88	-2.4388	53861.
#3	.48395	112940.	28.987	481.31	-2.4190	54050.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.092	82.563	393.06	218.80	F 182850.	6777.
Stddev	.140	.313	5.28	3.23	1114.	50.
%RSD	12.85	.37902	1.3445	1.4764	.60946	.7437
#1	1.184	82.925	398.43	221.77	181740.	6719.
#2	1.161	82.376	392.89	219.25	182850.	6811.
#3	.9304	82.389	387.87	215.36	183960.	6801.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK03004-018 Acquired: 11/16/2015 20:38:24 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBW0

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	101900.	3862.2	1.1243	3196.4	744.69	18.702
Stddev	856.	77.0	.2600	11.6	3.87	.982
%RSD	.8396	1.9946	23.129	.36280	.52024	5.2491
#1	101000.	3928.2	1.3257	3186.4	748.94	18.604
#2	102000.	3880.8	.83071	3209.1	743.75	19.729
#3	102700.	3777.5	1.2164	3193.6	741.36	17.773
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.4076	6.4881	8891.	-4.7181	431.07	363.64
Stddev	2.2918	1.0253	191.	.2076	5.89	2.25
%RSD	30.938	15.803	2.147	4.3999	1.3654	.61978
#1	10.054	7.3479	9092.	-4.4795	437.43	366.16
#2	6.1052	5.3534	8869.	-4.8571	429.97	362.94
#3	6.0638	6.7632	8712.	-4.8179	425.81	361.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK03004-018 Acquired: 11/16/2015 20:38:24 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBW0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26885.	6232.6	376660.
Stddev	36.	44.9	3603.
%RSD	.13215	.72035	.95666
#1	26875.	6284.1	372640.
#2	26925.	6211.9	377760.
#3	26856.	6201.7	379590.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.47%	97.866%	101.16%
Range			

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Sample Name: QK03004-018(2) Acquired: 11/16/2015 20:43:26 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBW0

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27277	56343.	14.599	238.27	-.98977	26852.	.5241
Stddev	.27033	301.	.744	2.08	.02292	89.	.0937
%RSD	99.104	.53462	5.0934	.87395	2.3158	.33215	17.87
#1	.16689	56075.	14.077	236.77	-.97665	26776.	.6255
#2	.58002	56285.	14.269	237.40	-.97644	26831.	.4409
#3	.07142	56669.	15.450	240.65	-1.0162	26950.	.5060
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.117	198.30	109.53	91470.	3343.	50570.	1972.8
Stddev	.130	.83	.22	410.	48.	130.	11.4
%RSD	.29421	.41682	.20159	.44828	1.436	.2578	.57936
#1	43.986	197.46	109.33	91020.	3295.	50570.	1961.3
#2	44.119	198.33	109.77	91566.	3391.	50440.	1984.2
#3	44.245	199.11	109.48	91823.	3342.	50700.	1972.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-018(2) Acquired: 11/16/2015 20:43:26 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBW0

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.59793	1614.6	389.18	10.140	2.6088	3.9723	4459.
Stddev	.09394	28.5	1.00	.237	1.8402	1.3927	32.
%RSD	15.711	1.7666	.25726	2.3345	70.539	35.059	.7122
#1	.69595	1646.9	388.59	10.067	4.2874	3.2830	4461.
#2	.58916	1603.9	388.62	10.405	.64116	5.5752	4426.
#3	.50868	1593.0	390.34	9.9489	2.8978	3.0588	4489.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-3.2636	215.26	189.76
Stddev	.6725	.69	.71
%RSD	20.608	.32132	.37304
#1	-3.4518	214.53	189.26
#2	-2.5170	215.34	189.45
#3	-3.8220	215.90	190.57
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-018(2) Acquired: 11/16/2015 20:43:26 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBW0

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26673.	6202.9	378250.
Stddev	102.	86.5	895.
%RSD	.38409	1.3944	.23661
#1	26574.	6171.3	377260.
#2	26779.	6136.6	378480.
#3	26666.	6300.8	379000.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.67%	97.400%	101.59%
Range			

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Sample Name: QK03004-019 Acquired: 11/16/2015 20:48:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.61912	99576.	32.885	456.71	-1.4035	41140.
Stddev	.26191	444.	2.055	.89	.0376	176.
%RSD	42.303	.44616	6.2502	.19543	2.6783	.42756
#1	.77507	99230.	30.547	455.74	-1.3891	40992.
#2	.76555	100080.	34.406	457.50	-1.3751	41335.
#3	.31675	99421.	33.702	456.91	-1.4461	41093.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9597	89.318	253.74	264.40	F 214260.	4521.
Stddev	.1137	3.335	3.76	3.89	501.	35.
%RSD	11.85	3.7342	1.4815	1.4726	.23403	.7703
#1	.8581	85.467	249.63	260.11	213920.	4499.
#2	.9386	91.254	257.00	267.69	214840.	4561.
#3	1.083	91.233	254.60	265.42	214040.	4503.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK03004-019 Acquired: 11/16/2015 20:48:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ4

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	117200.	2821.4	2.7213	1758.3	647.80	19.364
Stddev	354.	109.5	.2058	9.5	20.60	2.998
%RSD	.3022	3.8798	7.5613	.54019	3.1801	15.481
#1	117000.	2744.8	2.5828	1757.6	624.01	16.458
#2	117600.	2946.8	2.6234	1768.1	659.53	22.446
#3	117000.	2772.6	2.9577	1749.1	659.85	19.189
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.1389	4.6304	6863.	-2.1805	425.50	399.23
Stddev	1.0357	.9064	94.	.9346	6.12	12.67
%RSD	14.507	19.575	1.376	42.862	1.4390	3.1742
#1	7.4840	5.5717	6757.	-1.1077	418.57	384.60
#2	5.9747	3.7634	6892.	-2.8186	430.17	406.27
#3	7.9579	4.5563	6939.	-2.6151	427.76	406.81
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK03004-019 Acquired: 11/16/2015 20:48:29 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBQ4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26591.	6321.9	369150.
Stddev	713.	58.2	7199.
%RSD	2.6799	.92009	1.9502
#1	27411.	6351.9	375660.
#2	26117.	6254.9	361420.
#3	26246.	6359.0	370390.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.36%	99.268%	99.146%
Range			

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Sample Name: QK03004-019(2) Acquired: 11/16/2015 20:53:32 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBQ4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05339	51244.	17.803	238.66	-.57323	21569.	.4982
Stddev	.12967	304.	.034	.60	.02264	135.	.1876
%RSD	242.86	.59297	.19058	.25001	3.9487	.62702	37.66
#1	-.08808	50902.	17.835	239.35	-.58970	21468.	.3996
#2	.09009	51485.	17.767	238.39	-.58257	21723.	.7146
#3	-.16219	51343.	17.806	238.25	-.54742	21517.	.3804
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47.714	129.09	133.64	111740.	2338.	60600.	1456.1
Stddev	.383	1.38	.97	596.	32.	70.	11.7
%RSD	.80310	1.0720	.72386	.53318	1.353	.1161	.80435
#1	47.428	129.20	133.21	111400.	2374.	60550.	1449.8
#2	47.565	130.42	134.75	112420.	2313.	60680.	1469.6
#3	48.149	127.66	132.97	111380.	2327.	60580.	1448.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-019(2) Acquired: 11/16/2015 20:53:32 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBQ4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4260	952.11	342.90	10.680	2.4134	4.0370	3533.
Stddev	.0515	24.71	.83	.669	1.3839	.4646	88.
%RSD	3.6134	2.5949	.24259	6.2602	57.344	11.509	2.485
#1	1.4037	934.90	342.61	9.9709	3.6159	4.5470	3519.
#2	1.3893	941.01	342.26	10.769	.90069	3.9259	3626.
#3	1.4849	980.42	343.84	11.299	2.7235	3.6379	3452.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-1.0084	216.19	210.24
Stddev	.5457	2.03	.52
%RSD	54.120	.93673	.24722
#1	-1.1600	214.70	210.25
#2	-1.4623	218.49	209.71
#3	-.40289	215.37	210.75
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-019(2) Acquired: 11/16/2015 20:53:32 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBQ4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26041.	6000.2	369610.
Stddev	158.	50.5	2555.
%RSD	.60542	.84139	.69123
#1	25945.	6050.1	370890.
#2	25956.	6001.4	366670.
#3	26223.	5949.2	371270.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.283%	94.217%	99.268%
Range			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK03004-020 Acquired: 11/16/2015 20:58:28 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1748	158290.	24.849	1268.2	-.49486	35349.
Stddev	.0918	727.	.887	2.3	.02871	120.
%RSD	7.8144	.45901	3.5690	.17854	5.8014	.33935
#1	1.0812	158100.	24.253	1267.5	-.51115	35354.
#2	1.1786	157670.	25.868	1266.4	-.51171	35228.
#3	1.2647	159090.	24.426	1270.8	-.46171	35467.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2288	Co2286	Cr2677	Cu3273	Fe2611	K_7664
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7949	383.70	1306.2	209.92	F 334120.	6698.
Stddev	.0961	.29	17.6	3.37	975.	2.
%RSD	12.09	.07578	1.3472	1.6048	.29172	.0320
#1	.6888	384.02	1325.7	213.51	334160.	6696.
#2	.8761	383.64	1301.1	209.43	333130.	6700.
#3	.8199	383.45	1291.7	206.82	335080.	6697.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					150000.	
Low Limit					-10000.	

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Sample Name: QK03004-020 Acquired: 11/16/2015 20:58:28 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR9

Elem	Mg2790	Mn2576	Mo2020	Na5895	Ni2316	Pb2203
IS Ref	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	F 518500.	5861.2	.29876	1726.2	7673.8	20.316
Stddev	2123.	87.7	.28189	15.4	16.6	1.069
%RSD	.4094	1.4957	94.354	.89183	.21638	5.2606
#1	517800.	5783.3	.19014	1744.0	7691.6	21.523
#2	516900.	5956.2	.08734	1717.8	7671.0	19.490
#3	520900.	5844.2	.61881	1716.9	7658.7	19.935
Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit	300000.					
Low Limit	-10000.					

Elem	Sb2068	Se1960	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_2243)	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.7737	3.1975	7471.	-.00205	429.34	409.72
Stddev	2.5398	.3031	179.	.75998	5.34	.88
%RSD	53.205	9.4793	2.390	37009.	1.2440	.21546
#1	2.0225	3.1304	7677.	.44825	435.23	410.60
#2	7.0290	2.9335	7375.	-.87950	427.98	409.72
#3	5.2696	3.5285	7361.	.42509	424.81	408.84
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

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Sample Name: QK03004-020 Acquired: 11/16/2015 20:58:28 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 S PR Custom ID2: Custom ID3:
Comment: MJHBR9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25526.	6244.8	359540.
Stddev	72.	3.1	634.
%RSD	.28265	.04979	.17640
#1	25443.	6246.1	359160.
#2	25565.	6241.3	359180.
#3	25571.	6247.1	360270.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	96.338%	98.058%	96.563%
Range			

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Sample Name: QK03004-020(5) Acquired: 11/16/2015 21:03:30 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBR9

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.07529	32664.	4.6866	259.92	-.06863	7526.6	.2809
Stddev	.52808	187.	.9469	.28	.00249	35.1	.1124
%RSD	701.41	.57152	20.204	.10935	3.6236	.46625	40.01
#1	-.59402	32558.	3.6435	259.60	-.06669	7492.9	.4105
#2	.46166	32553.	4.9246	260.01	-.06776	7524.0	.2100
#3	-.09351	32879.	5.4919	260.15	-.07143	7562.9	.2223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	86.143	277.82	43.481	70878.	1304.	108300.	1277.4
Stddev	.575	4.17	.775	185.	108.	334.	17.9
%RSD	.66739	1.5000	1.7817	.26121	8.277	.3085	1.3977
#1	85.650	276.53	43.605	70769.	1180.	108000.	1274.7
#2	86.005	274.46	42.652	70773.	1355.	108400.	1261.1
#3	86.774	282.49	44.186	71092.	1378.	108700.	1296.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK03004-020(5) Acquired: 11/16/2015 21:03:30 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBR9

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.08072	371.23	1714.7	5.7409	1.2284	2.3465	1569.
Stddev	.06634	22.36	4.0	1.2593	.9421	.5340	22.
%RSD	82.186	6.0247	.23579	21.935	76.692	22.755	1.403
#1	-.04512	373.66	1712.4	6.9805	.98567	2.8008	1565.
#2	-.15725	392.28	1712.4	5.7794	.43146	1.7584	1548.
#3	-.03977	347.75	1719.4	4.4628	2.2681	2.4803	1592.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.16411	90.673	90.636
Stddev	.88826	1.266	.242
%RSD	541.25	1.3963	.26700
#1	-.57857	90.540	90.538
#2	1.1481	89.479	90.458
#3	-.07718	92.000	90.911
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK03004-020(5) Acquired: 11/16/2015 21:03:30 Type: Unk
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MJHBR9

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25854.	5983.6	363390.
Stddev	73.	51.2	3449.
%RSD	.28221	.85628	.94917
#1	25913.	5940.1	362510.
#2	25877.	5970.7	367190.
#3	25773.	6040.1	360470.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.577%	93.956%	97.597%
Range			

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Sample Name: QQ89520-002 Acquired: 11/16/2015 21:08:17 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.240	415.38	19.894	379.72	10.141	9770.7	9.247
Stddev	.266	39.10	.183	1.21	.206	70.2	.063
%RSD	1.3828	9.4136	.91994	.31801	2.0346	.71859	.6832
#1	19.545	454.07	20.104	378.76	10.374	9694.2	9.178
#2	19.061	375.88	19.771	379.33	10.067	9785.5	9.301
#3	19.113	416.20	19.807	381.07	9.9815	9832.2	9.261
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	93.967	20.318	47.903	196.30	9935.	9824.	37.220
Stddev	.379	.290	1.273	9.14	95.	31.	.582
%RSD	.40288	1.4258	2.6568	4.6584	.9525	.3179	1.5631
#1	93.630	20.600	48.968	199.90	9838.	9807.	37.859
#2	93.896	20.021	48.248	203.10	10030.	9806.	37.079
#3	94.377	20.334	46.494	185.91	9940.	9860.	36.721
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89520-002 Acquired: 11/16/2015 21:08:17 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23800	10614.	75.206	17.648	116.20	71.616	.0048
Stddev	.11891	45.	.129	1.081	1.27	.539	.2475
%RSD	49.962	.42695	.17151	6.1230	1.0932	.75199	5172.
#1	-.13919	10562.	75.168	18.845	117.41	71.739	.1251
#2	-.20483	10644.	75.350	16.744	114.88	71.026	.1691
#3	-.36997	10637.	75.100	17.355	116.31	72.082	-.2798
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	47.983	96.630	115.15
Stddev	.432	1.453	.26
%RSD	.90056	1.5037	.23008
#1	47.952	98.279	114.92
#2	47.568	96.071	115.08
#3	48.431	95.539	115.44
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89520-002 Acquired: 11/16/2015 21:08:17 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26620.	6125.6	382990.
Stddev	79.	24.9	5161.
%RSD	.29612	.40673	1.3477
#1	26587.	6097.0	377980.
#2	26710.	6142.8	382710.
#3	26564.	6136.9	388290.

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Sample Name: CCV ISM-515 Acquired: 11/16/2015 21:13:04 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV006

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	736.28	49080.	2480.1	9757.2	1068.0	48908.	961.2
Stddev	5.40	309.	6.7	7.1	11.2	98.	2.3
%RSD	.73407	.62938	.27060	.07269	1.0527	.20101	.2445
#1	741.63	48724.	2475.3	9758.9	1065.6	48862.	959.4
#2	730.82	49260.	2477.2	9749.5	1080.2	48841.	960.3
#3	736.40	49257.	2487.7	9763.3	1058.1	49021.	963.8
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4717.7	10183.	12369.	24193.	37890.	48090.	5041.4
Stddev	11.1	85.	130.	58.	58.	141.	97.6
%RSD	.23436	.83608	1.0528	.23785	.1529	.2922	1.9365
#1	4710.6	10202.	12516.	24133.	37940.	47930.	5117.3
#2	4712.1	10090.	12267.	24200.	37890.	48190.	4931.3
#3	4730.5	10257.	12324.	24247.	37820.	48160.	5075.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV ISM-515 Acquired: 11/16/2015 21:13:04 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV006

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	970.95	26153.	4755.0	9204.4	2415.9	1225.2	995.6
Stddev	3.09	52.	9.7	19.0	8.6	3.8	5.9
%RSD	.31799	.19961	.20436	.20667	.35483	.30617	.5965
#1	969.61	26208.	4748.0	9192.0	2408.4	1221.2	1001.
#2	968.76	26147.	4750.8	9195.0	2414.1	1225.9	989.0
#3	974.48	26105.	4766.1	9226.3	2425.2	1228.6	997.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	905.74	2514.1	4812.7
Stddev	2.79	15.2	12.3
%RSD	.30768	.60452	.25476
#1	904.55	2527.2	4804.8
#2	903.74	2497.4	4806.5
#3	908.92	2517.7	4826.8
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV ISM-515 Acquired: 11/16/2015 21:13:04 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV006

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	24717.	5899.9	356810.
Stddev	111.	99.1	2763.
%RSD	.44779	1.6805	.77446
#1	24839.	5787.1	353730.
#2	24686.	5939.4	359050.
#3	24624.	5973.3	357660.

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Sample Name: CCB Acquired: 11/16/2015 21:18:17 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB006

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.23347	20.858	.42822	.44137	.00642	-3.7438	.0685
Stddev	.55410	21.742	.69797	.34719	.01167	12.472	.1716
%RSD	237.33	104.24	162.99	78.663	181.95	333.13	250.6
#1	-.27695	38.453	.85330	.04502	.01674	-4.4070	-.0887
#2	.34109	27.569	.80868	.58733	.00876	9.0463	.2515
#3	-.76455	-3.4488	-.37730	.69175	-.00625	-15.871	.0427
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00100	.00118	-.37286	-19.350	80.93	-13.38	.00193
Stddev	.10277	.05500	1.1537	23.774	47.96	19.59	.04429
%RSD	10322.	4667.4	309.41	122.86	59.26	146.4	2292.8
#1	-.09643	.05872	-1.6397	-46.175	117.1	-18.19	-.04898
#2	.10839	-.00432	.61727	-.8874	26.52	8.164	.02323
#3	-.00897	-.05087	-.09613	-10.988	99.20	-30.12	.03154
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB Acquired: 11/16/2015 21:18:17 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB006

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.1794	47.221	-.20466	.32570	.16752	2.5711	-.1521
Stddev	.4140	17.852	.23845	1.5736	.99482	1.0008	.2504
%RSD	35.102	37.805	116.51	483.15	593.85	38.926	164.6
#1	1.5454	40.353	-.39377	-.70185	1.2484	3.0727	.1368
#2	1.2627	67.486	-.28342	-.45834	-.70977	1.4186	-.3081
#3	.73009	33.823	.06321	2.1373	-.03605	3.2218	-.2850
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

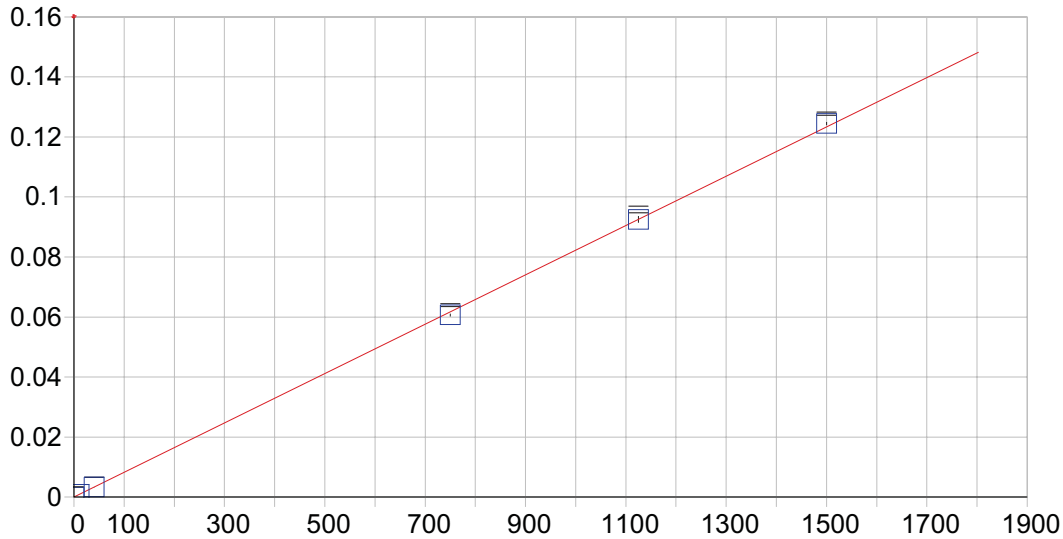
Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.73402	.00849	-.02751
Stddev	.80298	.30918	.01846
%RSD	109.39	3640.7	67.121
#1	1.6427	-.00117	-.00708
#2	.12016	-.29575	-.03244
#3	.43914	.32240	-.04300
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB Acquired: 11/16/2015 21:18:17 Type: QC
Method: CLP ISM Method ICP5 A(v17) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB006

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26726.	5819.6	378080.
Stddev	37.	82.1	2399.
%RSD	.13832	1.4114	.63442
#1	26691.	5743.7	375310.
#2	26765.	5906.8	379570.
#3	26722.	5808.3	379350.

PDF created with pdfFactory trial version www.pdffactory.com



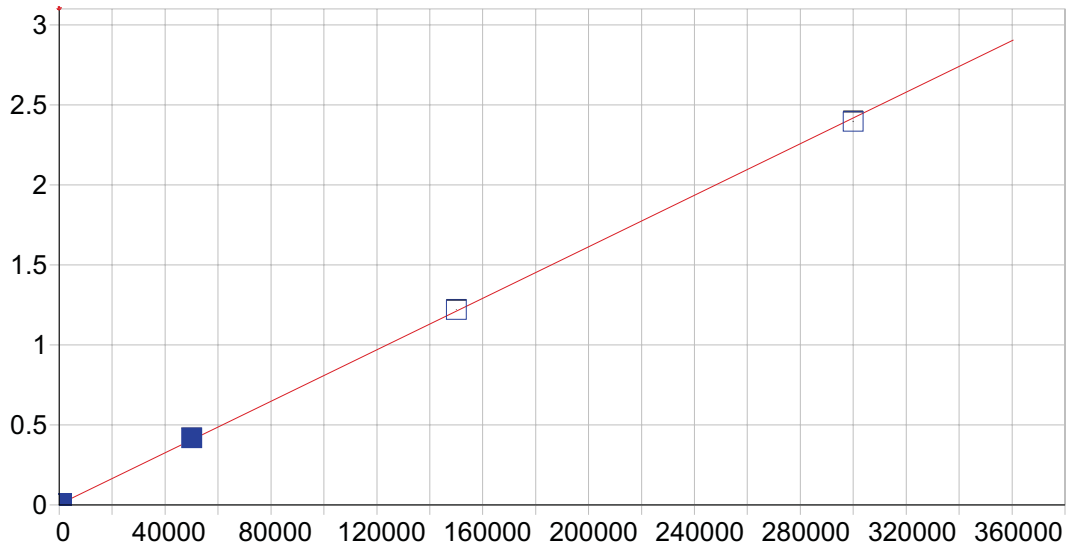
Ag 328.068 {103}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000037	Re-Slope:	1.000000
A1 (Gain):	0.000082	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999949	Status:	OK.
Std Error of Est:	0.000006		
Predicted MDL:	0.483268		
Predicted MQL:	1.610893		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00041	.000	.000	.00004	.000	1
S01 ISM-520	10.000	9.8710	-.129	-1.29	.00085	.000	1
S02 ISM-521	40.000	39.179	-.821	-2.05	.00326	.000	1
S03 ISM-538	750.00	737.51	-12.5	-1.67	.06067	.000	1
S04 ISM-523	1125.0	1124.8	-.195	-.017	.09252	.001	1
S05 ISM-524	1500.0	1513.6	13.6	.909	.12448	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



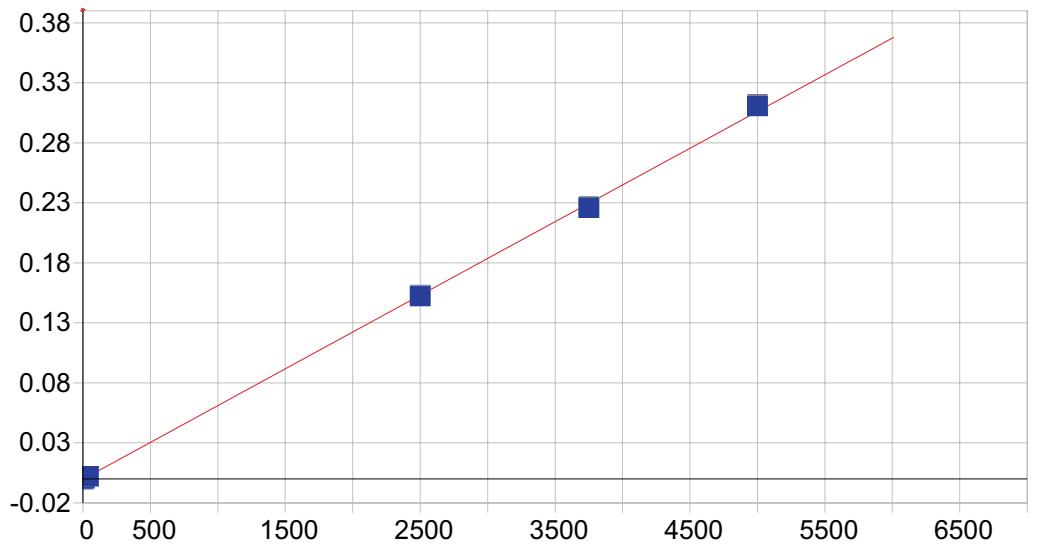
Al 308.215 {109}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.003175	Re-Slope:	1.000000
A1 (Gain):	0.000008	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999913	Status:	OK.
Std Error of Est:	0.000041		
Predicted MDL:	62.145854		
Predicted MQL:	207.152846		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00616	-.006	.000	.00317	.000	1
S01 ISM-520	200.00	182.62	-17.4	-8.69	.00467	.000	1
S02 ISM-521	800.00	870.94	70.9	8.87	.01027	.000	1
S03 ISM-538	50000.	51538.	1540.	3.08	.41909	.002	1
S06 ISM-463	150000.	151080.	1080.	.721	1.2196	.002	1
S07 ISM-464	300000.	297320.	-2680.	-.893	2.3970	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



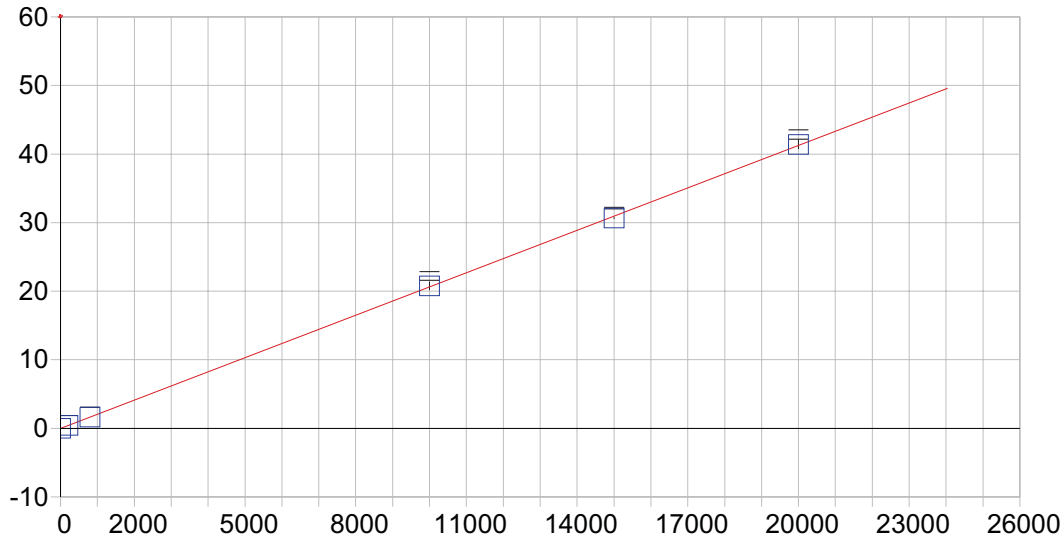
As 189.042 {478}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000173	Re-Slope:	1.000000
A1 (Gain):	0.000061	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999907	Status:	OK.
Std Error of Est:	0.000011		
Predicted MDL:	1.259893		
Predicted MQL:	4.199644		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00017	.000	.000	-.00017	.000	1
S01 ISM-520	10.000	10.113	.113	1.13	.00045	.000	1
S02 ISM-521	40.000	39.124	-.876	-2.19	.00223	.000	1
S03 ISM-538	2500.0	2488.6	-11.4	-.454	.15263	.000	1
S04 ISM-523	3750.0	3689.4	-60.6	-1.62	.22633	.000	1
S05 ISM-524	5000.0	5072.8	72.8	1.46	.31123	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



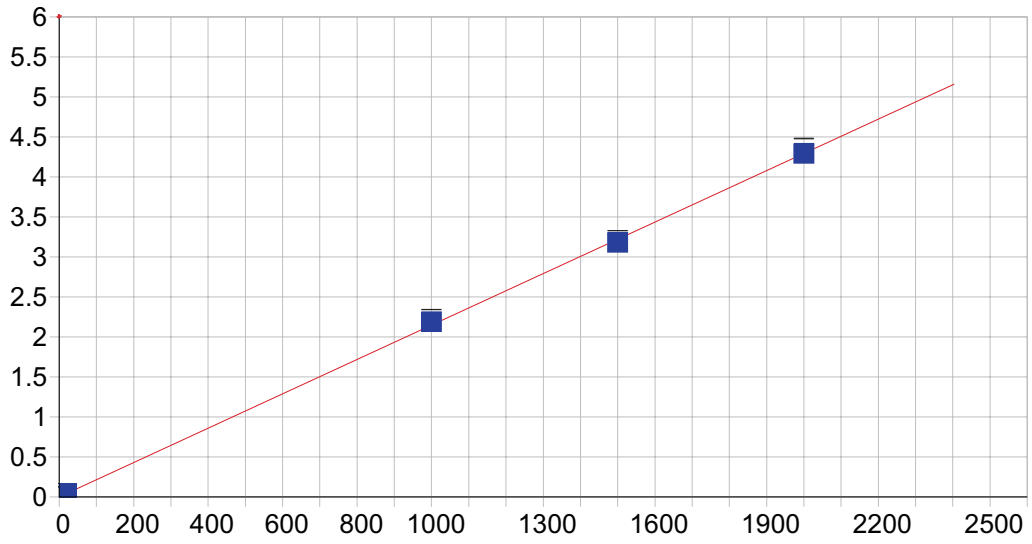
Ba 455.403 { 74}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.001162	Re-Slope:	1.000000
A1 (Gain):	0.002063	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999974	Status:	OK.
Std Error of Est:	0.001736		
Predicted MDL:	0.631319		
Predicted MQL:	2.104397		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00316	-.003	.000	-.00117	.001	1
S01 ISM-520	200.00	206.11	6.11	3.06	.42399	.016	1
S02 ISM-521	800.00	786.88	-13.1	-1.64	1.6219	.002	1
S03 ISM-538	10000.	10071.	70.5	.705	20.771	.643	1
S04 ISM-523	15000.	14865.	-135.	-.898	30.661	.129	1
S05 ISM-524	20000.	20071.	71.2	.356	41.399	.683	1

PDF created with pdfFactory trial version www.pdffactory.com



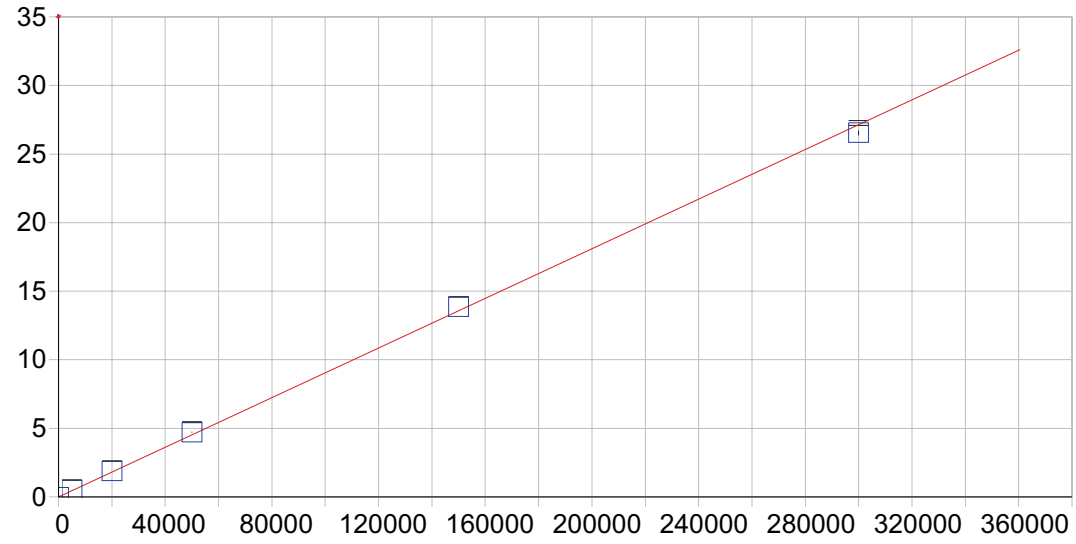
Be 313.042 {108}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000861	Re-Slope:	1.000000
A1 (Gain):	0.002146	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999939	Status:	OK.
Std Error of Est:	0.000138		
Predicted MDL:	0.015736		
Predicted MQL:	0.052454		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00015	-.000	.000	.00086	.000	1
S01 ISM-520	5.0000	5.0875	.087	1.75	.01183	.000	1
S02 ISM-521	20.000	20.149	.149	.747	.04429	.000	1
S03 ISM-538	1000.0	1018.2	18.2	1.82	2.1884	.031	1
S04 ISM-523	1500.0	1481.9	-18.1	-1.21	3.1849	.021	1
S05 ISM-524	2000.0	1999.7	-.268	-.013	4.2975	.061	1

PDF created with pdfFactory trial version www.pdffactory.com



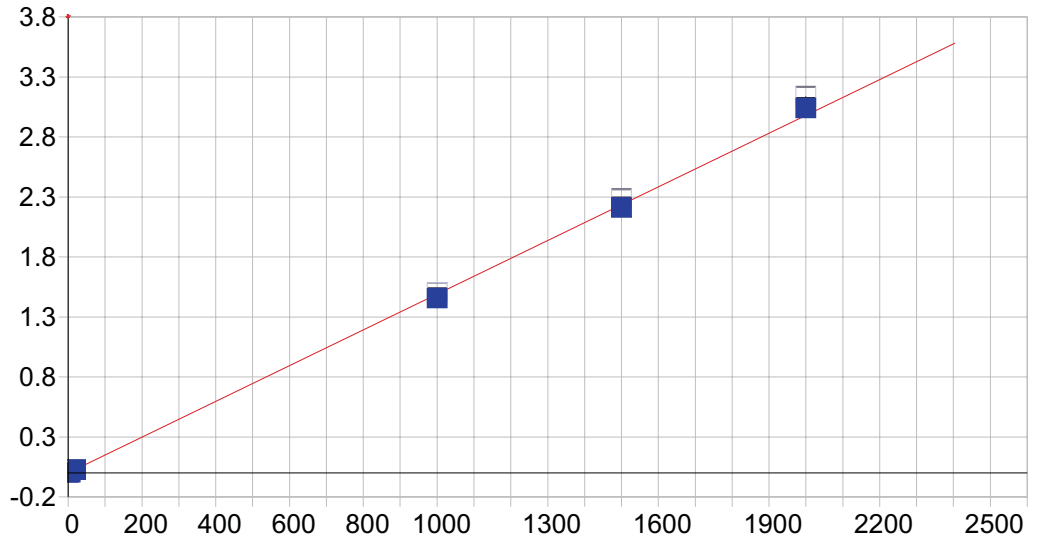
Ca 317.933 {106}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.006635	Re-Slope:	1.000000
A1 (Gain):	0.000090	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999643	Status:	OK.
Std Error of Est:	0.004793		
Predicted MDL:	6.637735		
Predicted MQL:	22.125783		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.86015	-.860	.000	.00656	.000	1
S01 ISM-520	5000.0	5454.1	454.	9.08	.49988	.019	1
S02 ISM-521	20000.	20774.	774.	3.87	1.8853	.005	1
S03 ISM-538	50000.	52162.	2160.	4.32	4.7239	.034	1
S06 ISM-463	150000.	153170.	3170.	2.11	13.858	.005	1
S07 ISM-464	300000.	293440.	-6560.	-2.19	26.544	.171	1

PDF created with pdfFactory trial version www.pdffactory.com



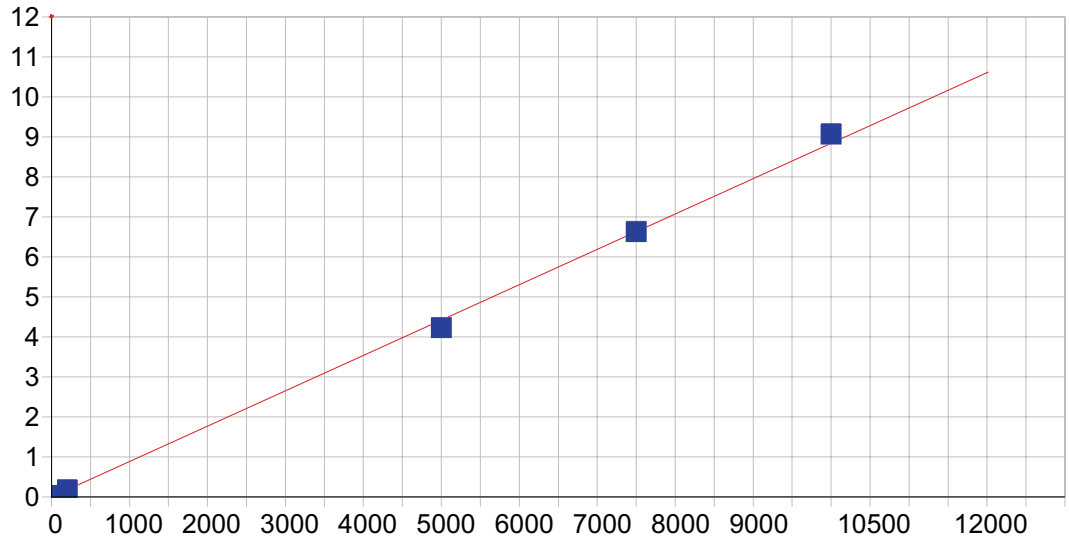
Cd 228.802 {447}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000452	Re-Slope:	1.000000
A1 (Gain):	0.001490	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999826	Status:	OK.
Std Error of Est:	0.000167		
Predicted MDL:	0.182839		
Predicted MQL:	0.609463		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00090	.001	.000	-.00045	.000	1
S01 ISM-520	5.0000	4.6187	-.381	-7.63	.00662	.000	1
S02 ISM-521	20.000	18.178	-1.82	-9.11	.02739	.000	1
S03 ISM-538	1000.0	977.48	-22.5	-2.25	1.5035	.002	1
S04 ISM-523	1500.0	1484.4	-15.6	-1.04	2.2825	.004	1
S05 ISM-524	2000.0	2040.3	40.3	2.01	3.1344	.004	1

PDF created with pdfFactory trial version www.pdffactory.com



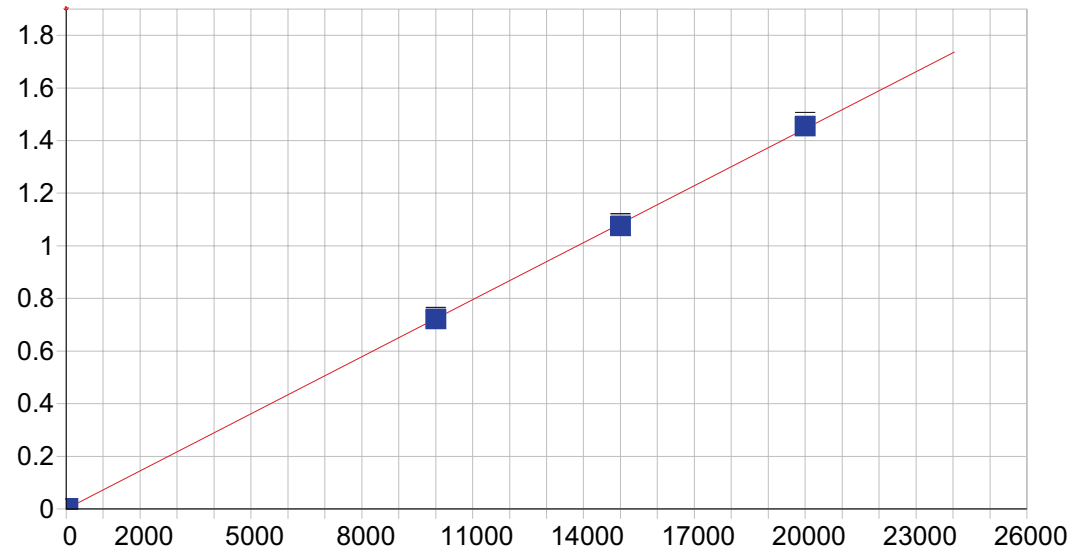
Co 228.616 {447}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000453	Re-Slope:	1.000000
A1 (Gain):	0.000884	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999623	Status:	OK.
Std Error of Est:	0.001003		
Predicted MDL:	0.180383		
Predicted MQL:	0.601276		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00521	.005	.000	.00046	.000	1
S01 ISM-520	50.000	49.047	-.953	-1.91	.04391	.000	1
S02 ISM-521	200.00	187.26	-12.7	-6.37	.16620	.000	1
S03 ISM-538	5000.0	4774.7	-225.	-4.51	4.2234	.005	1
S04 ISM-523	7500.0	7490.5	-9.45	-.126	6.6253	.011	1
S05 ISM-524	10000.	10248.	248.	2.48	9.0644	.011	1

PDF created with pdfFactory trial version www.pdffactory.com



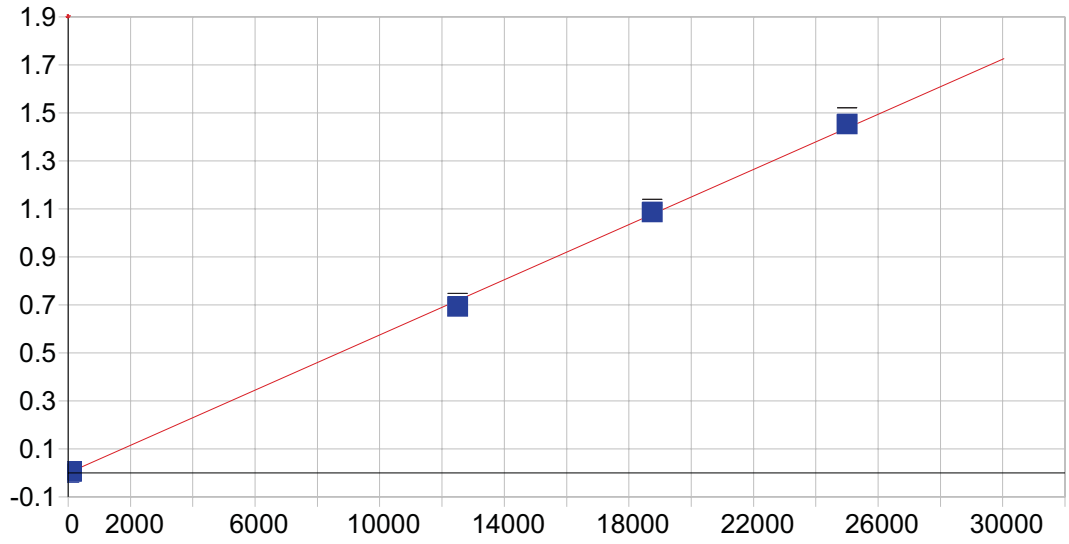
Cr 267.716 {126}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000177	Re-Slope:	1.000000
A1 (Gain):	0.000072	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999979	Status:	OK.
Std Error of Est:	0.000012		
Predicted MDL:	0.347563		
Predicted MQL:	1.158543		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00058	-.001	.000	.00018	.000	1
S01 ISM-520	10.000	10.511	.511	5.11	.00094	.000	1
S02 ISM-521	40.000	40.392	.392	.981	.00310	.000	1
S03 ISM-538	10000.	9986.6	-13.4	-.134	.72199	.006	1
S04 ISM-523	15000.	14881.	-119.	-.794	1.0757	.009	1
S05 ISM-524	20000.	20132.	132.	.658	1.4552	.014	1

PDF created with pdfFactory trial version www.pdffactory.com



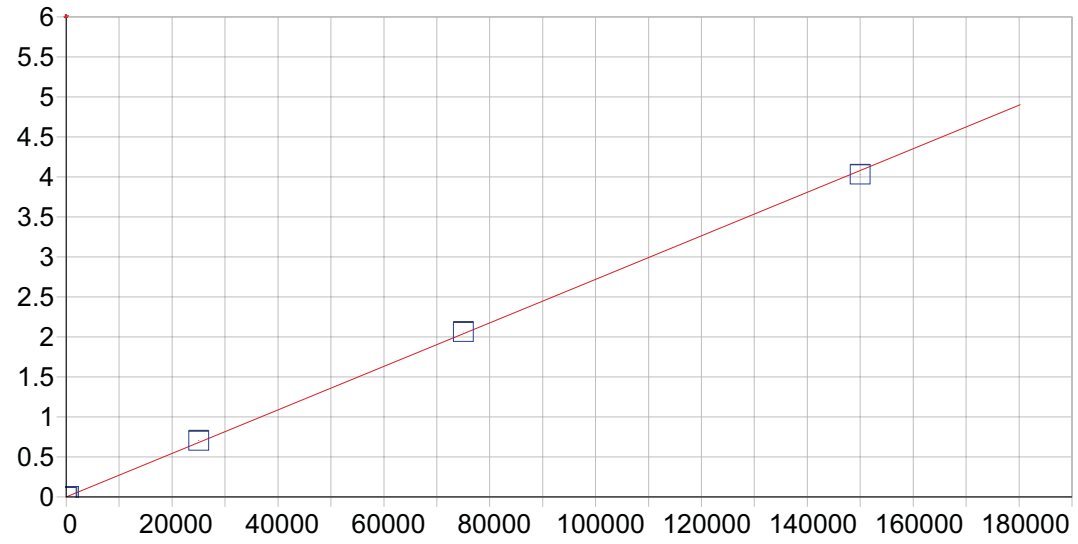
Cu 327.396 {103}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000141	Re-Slope:	1.000000
A1 (Gain):	0.000057	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999823	Status:	OK.
Std Error of Est:	0.000050		
Predicted MDL:	0.753977		
Predicted MQL:	2.513258		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00168	.002	.000	-.00014	.000	1
S01 ISM-520	25.000	24.739	-.261	-1.04	.00129	.000	1
S02 ISM-521	100.00	95.837	-4.16	-4.16	.00541	.000	1
S03 ISM-538	12500.	12063.	-437.	-3.49	.69350	.013	1
S04 ISM-523	18750.	18908.	158.	.841	1.0869	.012	1
S05 ISM-524	25000.	25283.	283.	1.13	1.4535	.027	1

PDF created with pdfFactory trial version www.pdffactory.com



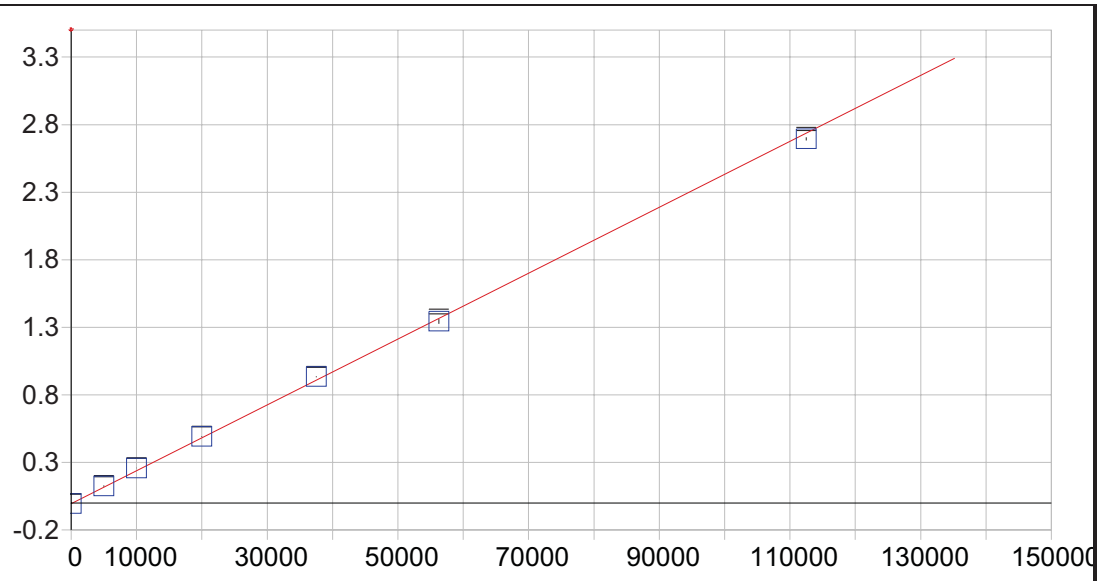
Fe 261.187 {129}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000660	Re-Slope:	1.000000
A1 (Gain):	0.000027	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999867	Status:	OK.
Std Error of Est:	0.000086		
Predicted MDL:	12.750488		
Predicted MQL:	42.501625		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.02009	-.020	.000	.00066	.000	1
S01 ISM-520	100.00	113.94	13.9	13.9	.00376	.000	1
S02 ISM-521	400.00	410.15	10.1	2.54	.01181	.000	1
S03 ISM-538	25000.	25923.	923.	3.69	.70548	.004	1
S06 ISM-463	75000.	75827.	827.	1.10	2.0623	.001	1
S07 ISM-464	150000.	148230.	-1770.	-1.18	4.0307	.002	1

PDF created with pdfFactory trial version www.pdffactory.com



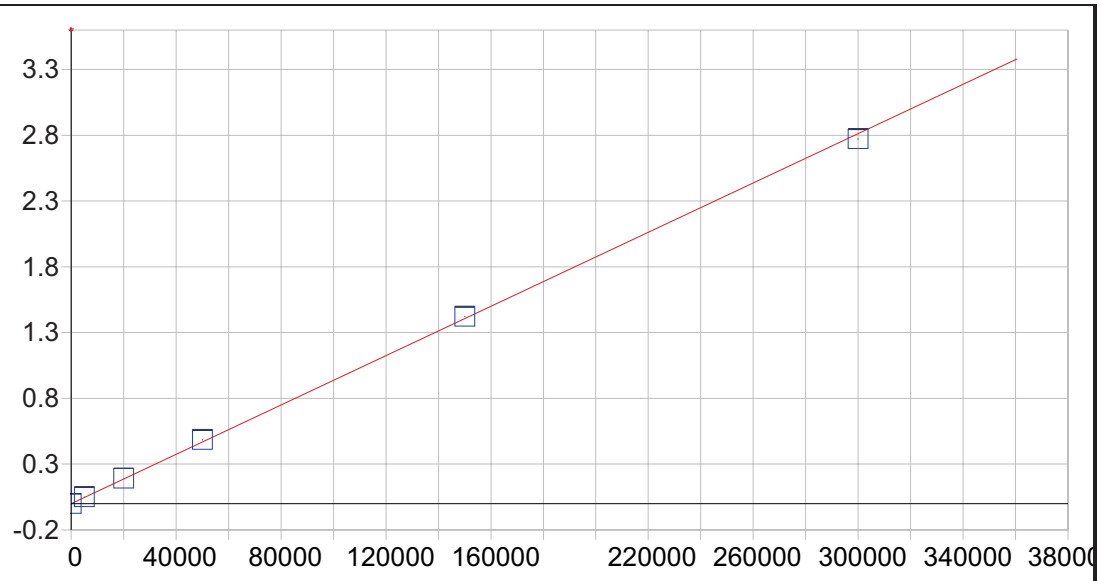
K 766.490 { 44}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.005825	Re-Slope:	1.000000
A1 (Gain):	0.000024	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999648	Status:	OK.
Std Error of Est:	0.000839		
Predicted MDL:	63.731155		
Predicted MQL:	212.437185		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.85059	-.851	.000	-.00585	.002	1
S02 ISM-521	20000.	20394.	394.	1.97	.49133	.002	1
S01 ISM-520	5000.0	5360.6	361.	7.21	.12485	.005	1
S03 ISM-538	37500.	38534.	1030.	2.76	.93352	.005	1
S08 ISM-465	56250.	55359.	-891.	-1.58	1.3437	.018	1
S06 ISM-463	112500.	110780.	-1720.	-1.52	2.6948	.012	1
S10 ISM-457	10000.	10818.	818.	8.18	.25789	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



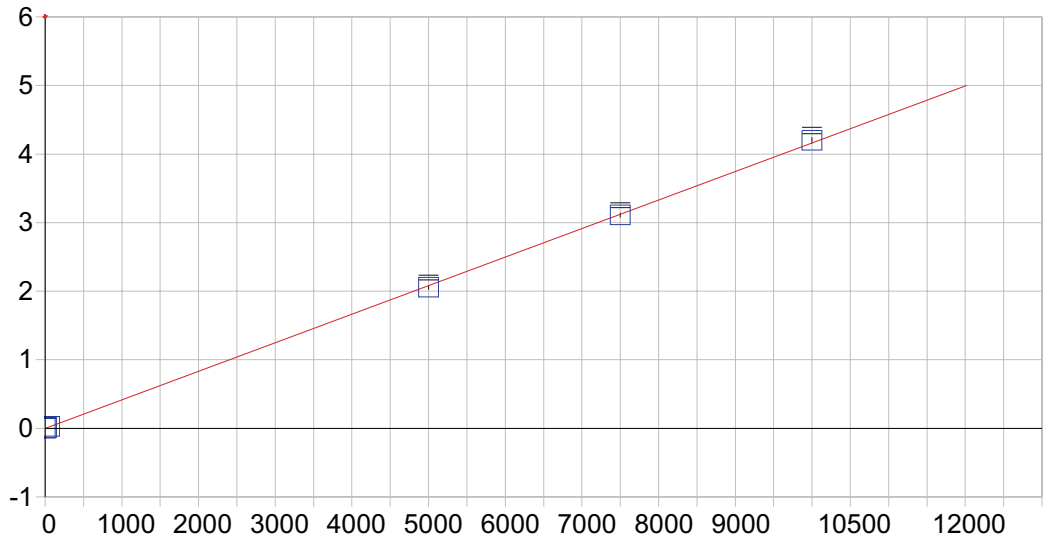
Mg 279.079 {121}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000172	Re-Slope:	1.000000
A1 (Gain):	0.000009	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999814	Status:	OK.
Std Error of Est:	0.000358		
Predicted MDL:	33.403479		
Predicted MQL:	111.344929		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.72888	-.729	.000	-.00018	.000	1
S01 ISM-520	5000.0	5432.4	432.	8.65	.05076	.002	1
S02 ISM-521	20000.	20567.	567.	2.84	.19268	.001	1
S03 ISM-538	50000.	51726.	1730.	3.45	.48483	.003	1
S06 ISM-463	150000.	151650.	1650.	1.10	1.4218	.003	1
S07 ISM-464	300000.	295630.	-4370.	-1.46	2.7717	.003	1

PDF created with pdfFactory trial version www.pdffactory.com



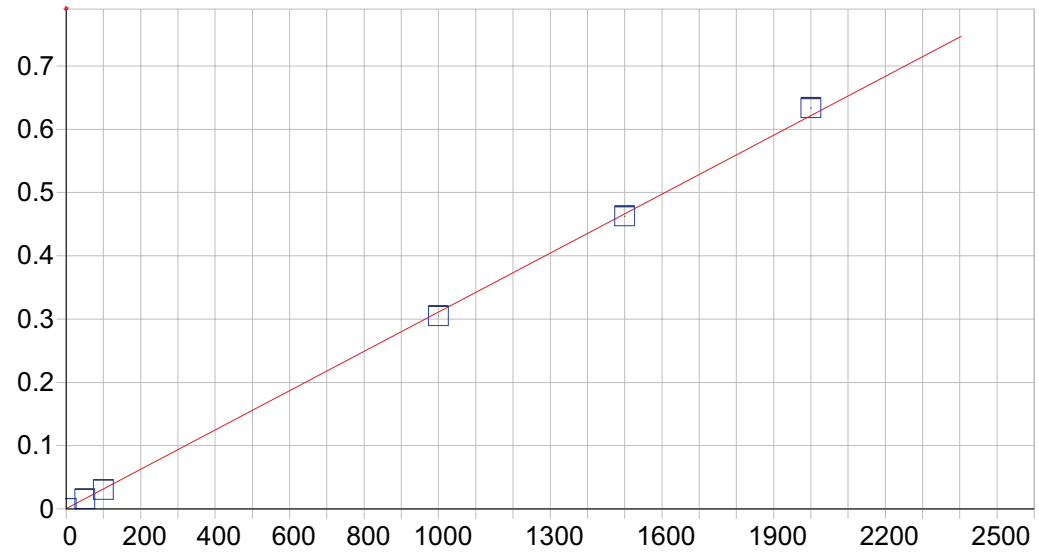
Mn 257.610 {131}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000004	Re-Slope:	1.000000
A1 (Gain):	0.000416	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999962	Status:	OK.
Std Error of Est:	0.000082		
Predicted MDL:	0.058489		
Predicted MQL:	0.194962		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00114	-.001	.000	.00000	.000	1
S01 ISM-520	15.000	15.968	.968	6.46	.00665	.000	1
S02 ISM-521	60.000	61.130	1.13	1.88	.02544	.000	1
S03 ISM-538	5000.0	4937.6	-62.4	-1.25	2.0549	.033	1
S04 ISM-523	7500.0	7473.5	-26.5	-.353	3.1103	.035	1
S05 ISM-524	10000.	10087.	86.8	.868	4.1979	.046	1

PDF created with pdfFactory trial version www.pdffactory.com



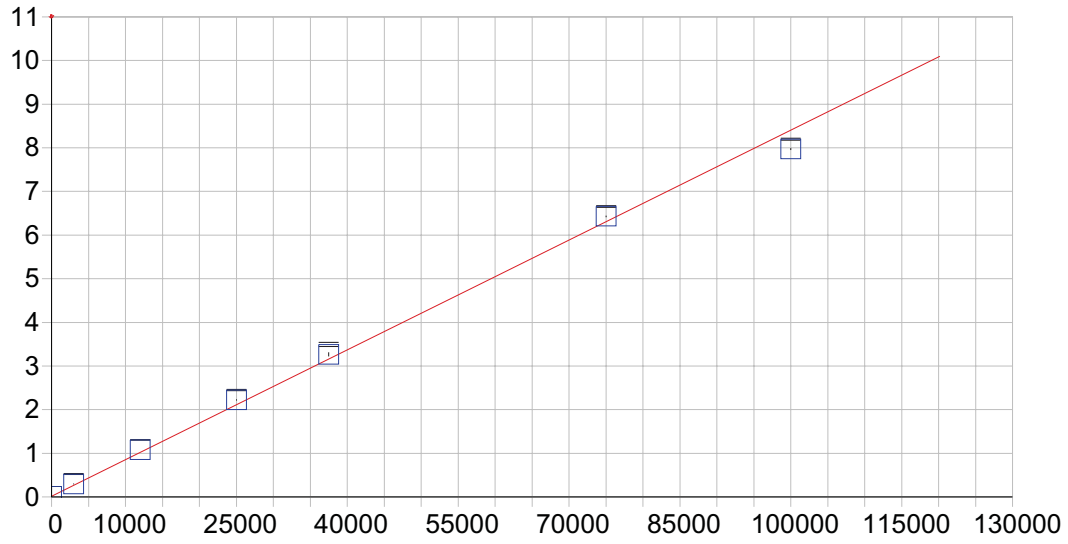
Mo 202.030 {467}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000647	Re-Slope:	1.000000
A1 (Gain):	0.000310	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999832	Status:	OK.
Std Error of Est:	0.000106		
Predicted MDL:	0.284501		
Predicted MQL:	0.948337		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00487	.005	.000	.00065	.000	1
S01 ISM-520	50.000	47.962	-2.04	-4.08	.01554	.000	1
S02 ISM-521	100.00	95.197	-4.80	-4.80	.03020	.000	1
S03 ISM-538	1000.0	980.18	-19.8	-1.98	.30496	.001	1
S04 ISM-523	1500.0	1487.8	-12.2	-.811	.46257	.001	1
S05 ISM-524	2000.0	2038.8	38.8	1.94	.63363	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



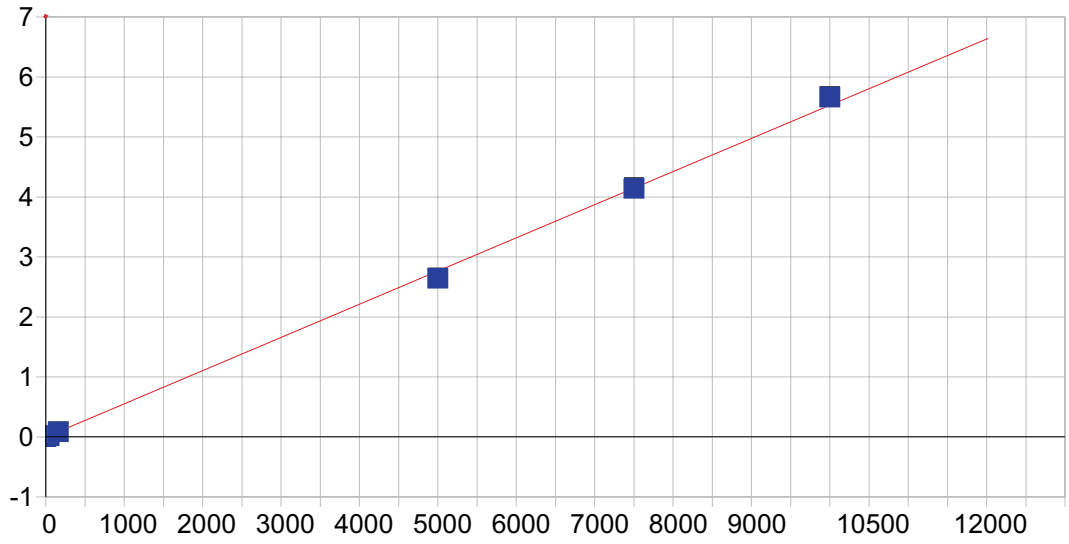
Na 589.592 { 57}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.012000	Re-Slope:	1.000000
A1 (Gain):	0.000084	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999010	Status:	OK.
Std Error of Est:	0.003844		
Predicted MDL:	22.751943		
Predicted MQL:	75.839810		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.73411	-.734	.000	.01194	.000	1
S01 ISM-520	3000.0	3392.0	392.	13.1	.29668	.010	1
S02 ISM-521	12000.	12709.	709.	5.91	1.0786	.000	1
S03 ISM-538	25000.	26334.	1330.	5.34	2.2221	.013	1
S06 ISM-463	75000.	76448.	1450.	1.93	6.4279	.016	1
S08 ISM-465	37500.	38765.	1270.	3.37	3.2654	.047	1
S09 ISM-456	100000.	94852.	-5150.	-5.15	7.9724	.022	1

PDF created with pdfFactory trial version www.pdffactory.com



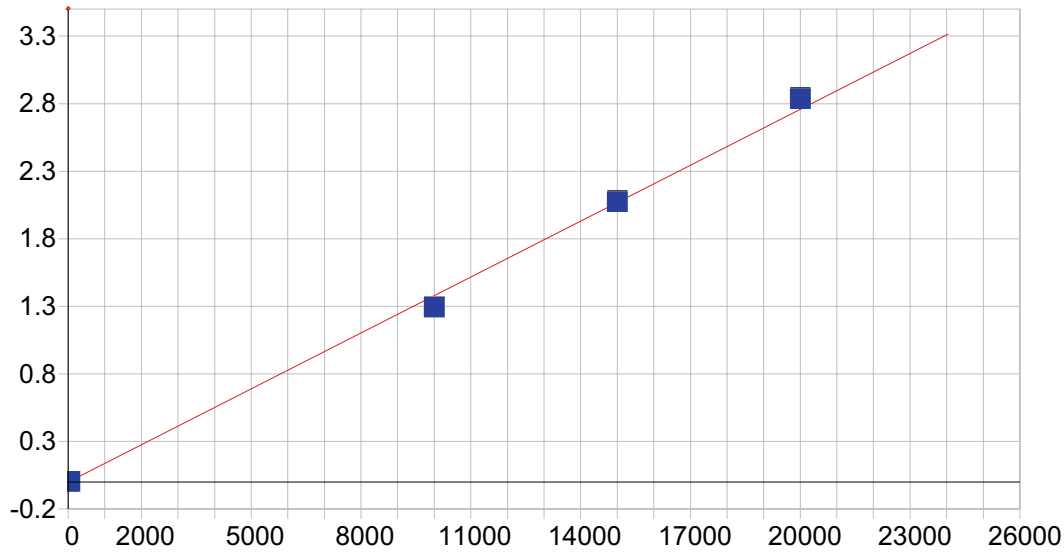
Ni 231.604 {445}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000617	Re-Slope:	1.000000
A1 (Gain):	0.000553	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999643	Status:	OK.
Std Error of Est:	0.000545		
Predicted MDL:	0.296618		
Predicted MQL:	0.988726		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00395	.004	.000	-.00062	.000	1
S01 ISM-520	40.000	39.263	-.737	-1.84	.02110	.000	1
S02 ISM-521	160.00	150.57	-9.43	-5.89	.08267	.000	1
S03 ISM-538	5000.0	4778.2	-222.	-4.44	2.6417	.004	1
S04 ISM-523	7500.0	7490.5	-9.45	-.126	4.1423	.008	1
S05 ISM-524	10000.	10241.	241.	2.41	5.6636	.010	1

PDF created with pdfFactory trial version www.pdffactory.com



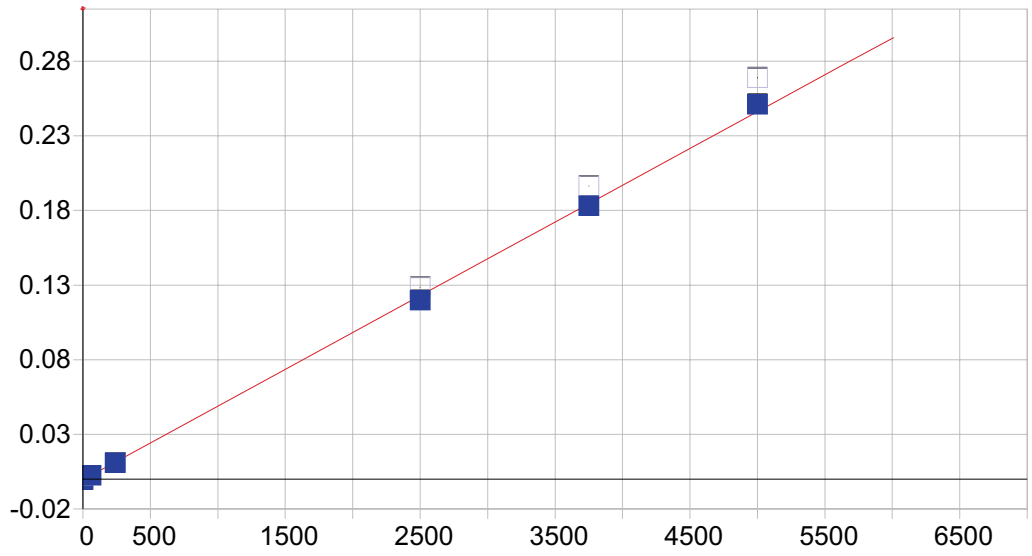
Pb 220.353 {453}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000187	Re-Slope:	1.000000
A1 (Gain):	0.000138	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999385	Status:	OK.
Std Error of Est:	0.000126		
Predicted MDL:	1.503113		
Predicted MQL:	5.010378		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00100	.001	.000	-.00019	.000	1
S01 ISM-520	10.000	10.457	.457	4.57	.00127	.000	1
S02 ISM-521	40.000	35.363	-4.64	-11.6	.00475	.000	1
S03 ISM-538	10000.	9381.1	-619.	-6.19	1.2970	.001	1
S04 ISM-523	15000.	15048.	48.2	.321	2.0758	.005	1
S05 ISM-524	20000.	20576.	576.	2.88	2.8384	.005	1

PDF created with pdfFactory trial version www.pdffactory.com



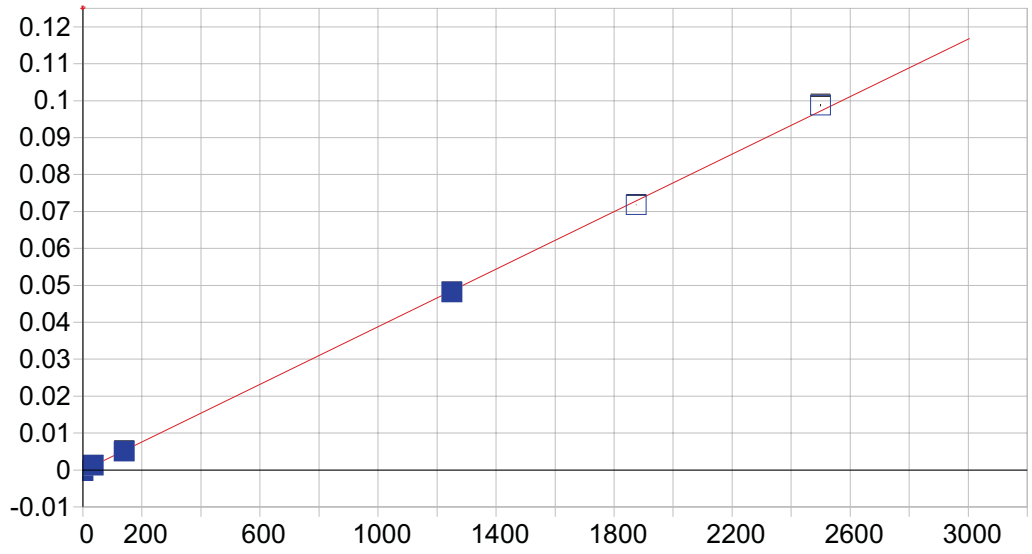
Sb 206.833 {463}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000487	Re-Slope:	1.000000
A1 (Gain):	0.000049	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999845	Status:	OK.
Std Error of Est:	0.000030		
Predicted MDL:	2.049779		
Predicted MQL:	6.832597		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00291	.003	.000	-.00049	.000	1
S01 ISM-520	60.000	59.956	-.044	-.074	.00246	.000	1
S02 ISM-521	240.00	231.64	-8.36	-3.49	.01095	.000	1
S03 ISM-538	2500.0	2438.1	-61.9	-2.48	.12864	.000	1
S04 ISM-523	3750.0	3719.2	-30.8	-.821	.19639	.000	1
S05 ISM-524	5000.0	5100.5	100.	2.01	.26899	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



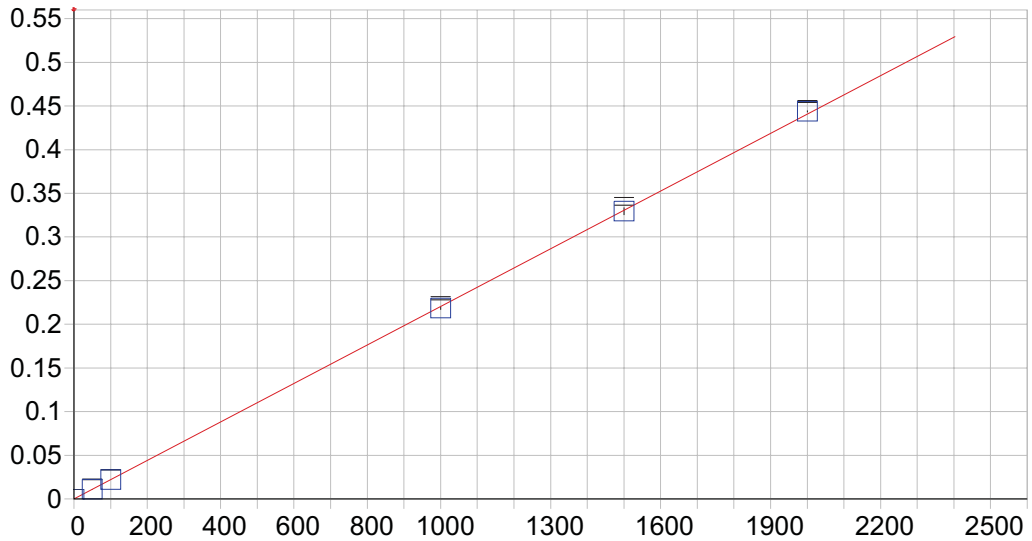
Se 196.090 {472}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000170	Re-Slope:	1.000000
A1 (Gain):	0.000039	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999891	Status:	OK.
Std Error of Est:	0.000010		
Predicted MDL:	2.121056		
Predicted MQL:	7.070185		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00034	.000	.000	-.00017	.000	1
S01 ISM-520	35.000	36.016	1.02	2.90	.00123	.000	1
S02 ISM-521	140.00	135.38	-4.62	-3.30	.00510	.000	1
S03 ISM-538	1250.0	1241.3	-8.70	-.696	.04819	.000	1
S04 ISM-523	1875.0	1847.8	-27.2	-1.45	.07181	.000	1
S05 ISM-524	2500.0	2539.5	39.5	1.58	.09875	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



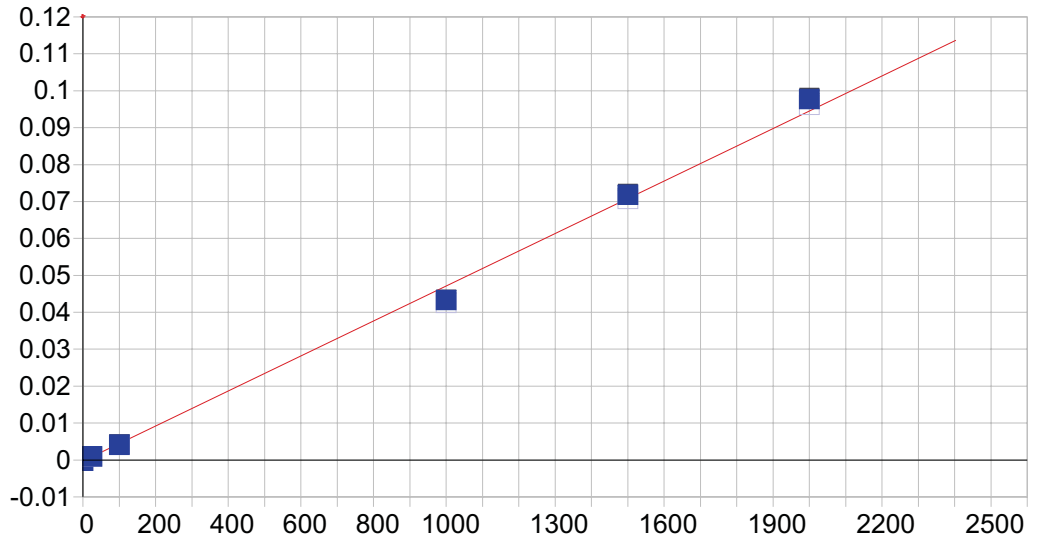
Ti 337.280 {100}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000104	Re-Slope:	1.000000
A1 (Gain):	0.000220	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999977	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	0.214352		
Predicted MQL:	0.714507		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00066	.001	.000	.00010	.000	1
S01 ISM-520	50.000	49.920	-.080	-.161	.01110	.000	1
S02 ISM-521	100.00	99.346	-.654	-.654	.02199	.000	1
S03 ISM-538	1000.0	990.57	-9.43	-.943	.21829	.002	1
S04 ISM-523	1500.0	1495.6	-4.35	-.290	.32954	.004	1
S05 ISM-524	2000.0	2014.5	14.5	.726	.44382	.001	1

PDF created with pdfFactory trial version www.pdffactory.com



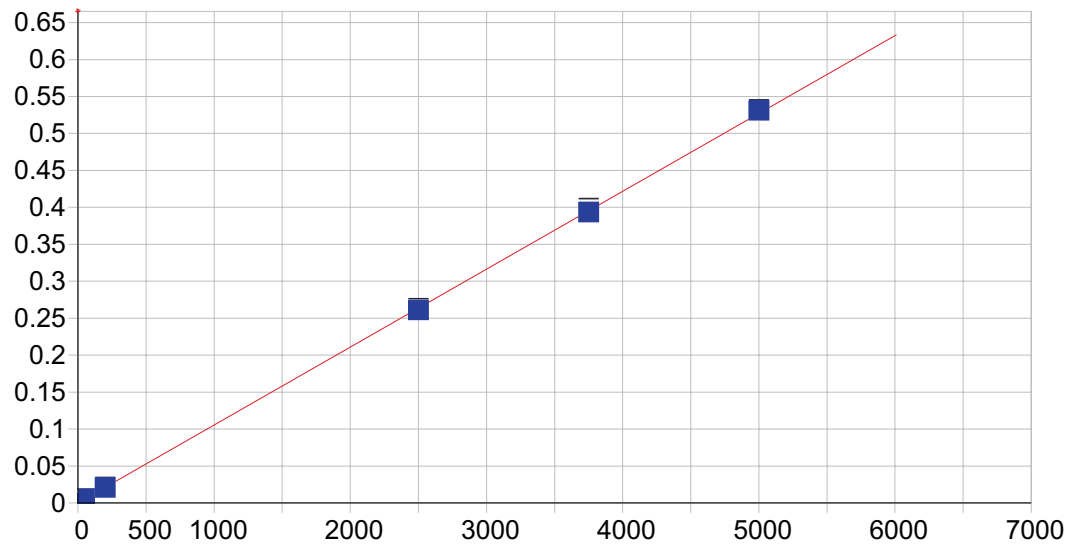
TI 190.856 {477}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000275	Re-Slope:	1.000000
A1 (Gain):	0.000047	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.998929	Status:	OK.
Std Error of Est:	0.000028		
Predicted MDL:	1.321381		
Predicted MQL:	4.404603		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00253	.003	.000	-.00028	.000	1
S01 ISM-520	25.000	25.171	.171	.685	.00090	.000	1
S02 ISM-521	100.00	92.517	-7.48	-7.48	.00402	.000	1
S03 ISM-538	1000.0	919.37	-80.6	-8.06	.04255	.000	1
S04 ISM-523	1500.0	1520.6	20.6	1.37	.07067	.000	1
S05 ISM-524	2000.0	2067.3	67.3	3.37	.09620	.000	1

PDF created with pdfFactory trial version www.pdffactory.com



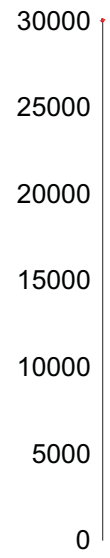
V 292.402 {115}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000072	Re-Slope:	1.000000
A1 (Gain):	0.000105	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999972	Status:	OK.
Std Error of Est:	0.000023		
Predicted MDL:	0.337166		
Predicted MQL:	1.123886		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	-.00022	-.000	.000	.00007	.000	1
S01 ISM-520	50.000	50.886	.886	1.77	.00542	.000	1
S02 ISM-521	200.00	198.45	-1.55	-.775	.02095	.000	1
S03 ISM-538	2500.0	2477.4	-22.6	-.903	.26083	.002	1
S04 ISM-523	3750.0	3733.0	-17.0	-.452	.39298	.005	1
S05 ISM-524	5000.0	5040.2	40.2	.804	.53058	.001	1

PDF created with pdfFactory trial version www.pdffactory.com

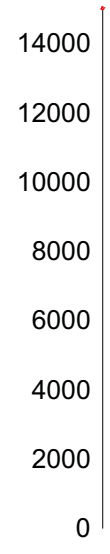


Y 224.306 {450}*

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	0.000000		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

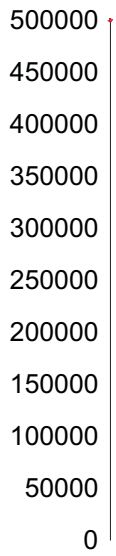
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	28348.	132.	1



Y 371.030 { 91}*

PDF created with pdfFactory trial version www.pdffactory.com

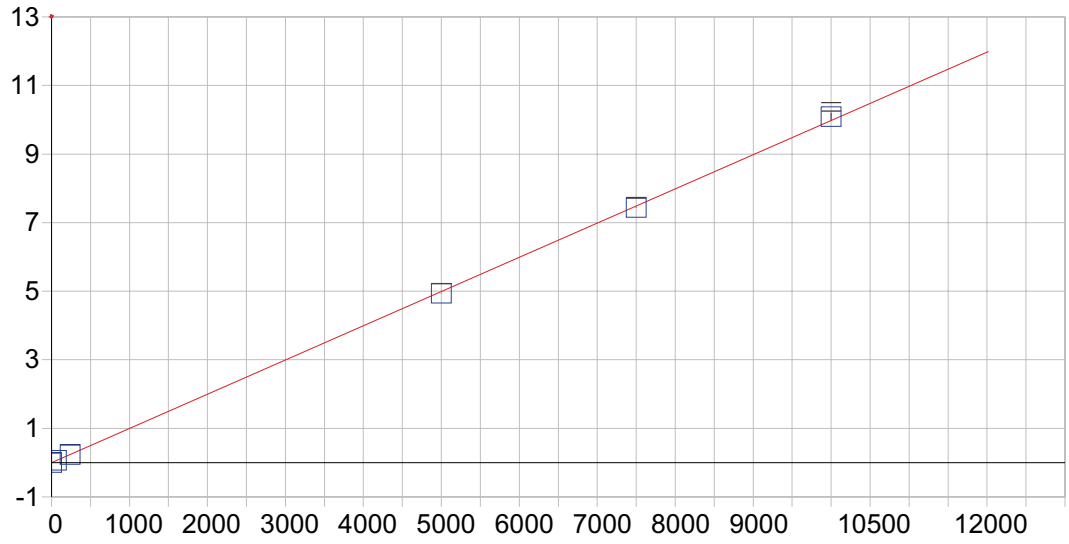
Date of Fit:	11/22/2015 11:35:13		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	13646.	204.	1



Y 371.030 { 91}2*

Date of Fit:	11/22/2015 11:35:13		Type of Fit:	Linear	Weighting:	1/Conc	
A0 (Offset):		0.000000		Re-Slope:	1.000000		
A1 (Gain):		0.000000		Y-int:	0.000000		
A2 (Curvature):		0.000000					
n (Exponent):		1.000000					
Correlation:		0.000000		Status:	Warning	Zero Gain	
Std Error of Est:		0.000000					
Predicted MDL:		n/a					
Predicted MQL:		n/a					
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00000	.000	.000	410170.	6630.	1

PDF created with pdfFactory trial version www.pdffactory.com



Zn 206.200 {463}

Date of Fit:	11/22/2015 11:35:13	Type of Fit:	Linear	Weighting:	1/Conc

A0 (Offset):	-0.000340	Re-Slope:	1.000000
A1 (Gain):	0.000998	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.999952	Status:	OK.
Std Error of Est:	0.000441		
Predicted MDL:	0.103235		
Predicted MQL:	0.344117		

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
S0	.00000	.00125	.001	.000	-.00034	.000	1
S01 ISM-520	60.000	60.510	.510	.850	.06005	.000	1
S02 ISM-521	240.00	234.55	-5.45	-2.27	.23373	.001	1
S03 ISM-538	5000.0	4944.7	-55.3	-1.11	4.9344	.006	1
S04 ISM-523	7500.0	7453.5	-46.5	-.619	7.4382	.011	1
S05 ISM-524	10000.	10107.	107.	1.07	10.086	.122	1

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/21/2015 13:48:17 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00004	.00317	-.00017	-.00117	.00086	.00656	-.0005
Stddev	.00004	.00043	.00002	.00052	.00001	.00046	.0002
%RSD	98.848	13.566	14.151	44.431	1.6657	7.0726	53.15
#1	.00008	.00268	-.00015	-.00148	.00087	.00652	-.0006
#2	.00001	.00335	-.00018	-.00057	.00086	.00611	-.0006
#3	.00002	.00349	-.00019	-.00146	.00085	.00704	-.0002

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00046	.00018	-.00014	.00066	-.0058	-.0002	.00000
Stddev	.00019	.00003	.00003	.00027	.0020	.0004	.00002
%RSD	41.427	14.583	22.318	40.929	33.71	226.3	500.00
#1	.00064	.00015	-.00017	.00066	-.0058	-.0005	.00002
#2	.00047	.00019	-.00015	.00093	-.0039	-.0003	-.00001
#3	.00026	.00019	-.00011	.00039	-.0078	.0003	-.00001

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00065	.01194	-.00062	-.00019	-.00049	-.00017	.0001
Stddev	.00007	.00050	.00026	.00015	.00003	.00003	.0000
%RSD	11.358	4.1814	41.737	79.998	7.0730	15.451	32.11
#1	.00056	.01177	-.00035	-.00035	-.00050	-.00015	.0001
#2	.00069	.01155	-.00063	-.00006	-.00051	-.00020	.0001
#3	.00069	.01250	-.00086	-.00015	-.00045	-.00016	.0001

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S0 Acquired: 11/21/2015 13:48:17 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	-.00028	.00007	-.00034
Stddev	.00000	.00001	.00002
%RSD	1.1533	19.900	5.8315
#1	-.00028	.00009	-.00033
#2	-.00027	.00007	-.00033
#3	-.00028	.00006	-.00036

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28348.	13646.	410170.
Stddev	132.	204.	6625.
%RSD	.46535	1.4975	1.6153
#1	28453.	13563.	413230.
#2	28392.	13878.	402570.
#3	28200.	13496.	414710.

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: S01 ISM-520 Acquired: 11/21/2015 13:53:04 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00085	.00467	.00045	.42399	.01183	.49988	.0066
Stddev	.00005	.00039	.00007	.01566	.00038	.01856	.0003
%RSD	5.4475	8.4113	15.023	3.6941	3.1776	3.7126	4.434
#1	.00088	.00481	.00041	.41253	.01217	.48620	.0070
#2	.00087	.00422	.00041	.44183	.01189	.52101	.0065
#3	.00080	.00497	.00053	.41759	.01142	.49244	.0064

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.04391	.00094	.00129	.00376	.1249	.0508	.00665
Stddev	.00019	.00004	.00004	.00045	.0048	.0020	.00024
%RSD	.43025	4.0228	2.9368	11.996	3.866	3.904	3.5461
#1	.04398	.00098	.00132	.00385	.1211	.0496	.00689
#2	.04370	.00093	.00131	.00416	.1303	.0531	.00664
#3	.04406	.00090	.00125	.00327	.1232	.0496	.00642

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.01554	.29668	.02110	.00127	.00246	.00123	.0111
Stddev	.00007	.00993	.00013	.00012	.00012	.00006	.0004
%RSD	.47234	3.3455	.60987	9.4894	4.9501	5.1628	3.188
#1	.01562	.29003	.02121	.00132	.00259	.00118	.0115
#2	.01552	.30809	.02096	.00113	.00246	.00122	.0110
#3	.01547	.29191	.02114	.00136	.00234	.00130	.0108

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Sample Name: S01 ISM-520 Acquired: 11/21/2015 13:53:04 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00090	.00542	.06005
Stddev	.00002	.00018	.00019
%RSD	1.7608	3.2817	.31357
#1	.00088	.00559	.06005
#2	.00091	.00542	.05986
#3	.00091	.00523	.06024

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28146.	13832.	408840.
Stddev	144.	543.	15544.
%RSD	.51307	3.9241	3.8021
#1	28028.	14343.	393320.
#2	28307.	13263.	408790.
#3	28104.	13891.	424410.

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Sample Name: S02 ISM-521 Acquired: 11/21/2015 13:57:49 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.00326	.01027	.00223	1.6219	.04429	1.8853	.0274
Stddev	.00003	.00018	.00008	.0024	.00016	.0054	.0002
%RSD	1.0130	1.7562	3.4282	.14463	.37103	.28590	.8792
#1	.00327	.01021	.00227	1.6199	.04420	1.8801	.0276
#2	.00328	.01047	.00214	1.6245	.04448	1.8851	.0271
#3	.00322	.01012	.00227	1.6213	.04419	1.8908	.0275

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.16620	.00310	.00541	.01181	.4913	.1927	.02544
Stddev	.00044	.00002	.00001	.00005	.0016	.0009	.00011
%RSD	.26684	.48665	.26811	.42069	.3159	.4485	.41548
#1	.16582	.00311	.00540	.01175	.4931	.1925	.02540
#2	.16608	.00311	.00541	.01184	.4905	.1919	.02557
#3	.16668	.00308	.00543	.01184	.4903	.1936	.02537

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.03020	1.0786	.08267	.00475	.01095	.00510	.0220
Stddev	.00003	.0003	.00012	.00004	.00019	.00004	.0001
%RSD	.11312	.02825	.15116	.90971	1.6954	.69628	.2476
#1	.03020	1.0786	.08252	.00474	.01074	.00514	.0220
#2	.03024	1.0783	.08274	.00479	.01111	.00509	.0220
#3	.03017	1.0789	.08274	.00471	.01098	.00508	.0219

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Sample Name: S02 ISM-521 Acquired: 11/21/2015 13:57:49 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.00402	.02095	.23373
Stddev	.00006	.00009	.00066
%RSD	1.4581	.40603	.28239
#1	.00398	.02092	.23311
#2	.00400	.02105	.23367
#3	.00409	.02088	.23442

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27527.	13810.	393920.
Stddev	73.	103.	1791.
%RSD	.26560	.74901	.45456
#1	27473.	13814.	392370.
#2	27498.	13912.	393490.
#3	27610.	13705.	395880.

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Sample Name: S03 ISM-538 Acquired: 11/21/2015 14:02:35 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.06067	.41909	.15263	20.771	2.1884	4.7239	1.504
Stddev	.00047	.00237	.00026	.643	.0310	.0337	.002
%RSD	.77039	.56531	.16940	3.0951	1.4166	.71320	.1123
#1	.06029	.41656	.15247	20.572	2.1735	4.6865	1.504
#2	.06119	.41947	.15249	20.251	2.2241	4.7336	1.502
#3	.06053	.42125	.15293	21.490	2.1677	4.7518	1.505

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.2234	.72199	.69350	.70548	.9335	.4848	2.0549
Stddev	.0055	.00611	.01280	.00428	.0046	.0032	.0334
%RSD	.12997	.84633	1.8459	.60623	.4959	.6601	1.6241
#1	4.2253	.71681	.69849	.70055	.9294	.4812	2.0369
#2	4.2172	.72873	.70305	.70766	.9326	.4861	2.0934
#3	4.2277	.72042	.67895	.70823	.9385	.4872	2.0344

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.30496	2.2221	2.6417	1.2970	.12864	.04819	.2183
Stddev	.00062	.0127	.0042	.0012	.00015	.00004	.0018
%RSD	.20413	.57326	.16008	.09200	.11912	.09068	.8286
#1	.30517	2.2078	2.6451	1.2974	.12863	.04820	.2168
#2	.30426	2.2265	2.6370	1.2957	.12849	.04814	.2203
#3	.30545	2.2321	2.6430	1.2980	.12880	.04823	.2177

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Sample Name: S03 ISM-538 Acquired: 11/21/2015 14:02:35 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S
Avg	.04255	.26083	4.9344
Stddev	.00003	.00203	.0056
%RSD	.08092	.77811	.11327
#1	.04258	.25933	4.9366
#2	.04252	.26314	4.9280
#3	.04254	.26001	4.9385

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26224.	13550.	386950.
Stddev	10.	173.	2153.
%RSD	.03923	1.2753	.55651
#1	26217.	13634.	388670.
#2	26218.	13665.	384530.
#3	26235.	13351.	387640.

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Sample Name: S04 ISM-523 Acquired: 11/21/2015 14:07:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.09252	.22633	30.661	3.1849	2.282	6.6253	1.0757
Stddev	.00111	.00024	.129	.0211	.004	.0110	.0087
%RSD	1.1983	.10615	.42072	.66207	.1765	.16521	.81272
#1	.09140	.22618	30.729	3.1987	2.281	6.6230	1.0703
#2	.09362	.22620	30.512	3.1954	2.279	6.6157	1.0858
#3	.09253	.22661	30.742	3.1606	2.287	6.6372	1.0711

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.0869	3.1103	.46257	4.1423	2.0758	.19639	.07181
Stddev	.0119	.0354	.00062	.0078	.0053	.00021	.00011
%RSD	1.0955	1.1392	.13312	.18886	.25567	.10581	.15522
#1	1.0775	3.0760	.46214	4.1410	2.0761	.19638	.07174
#2	1.0830	3.1467	.46230	4.1351	2.0704	.19618	.07174
#3	1.1003	3.1081	.46328	4.1506	2.0810	.19660	.07194

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3295	.07067	.39298	7.4382
Stddev	.0044	.00021	.00513	.0108
%RSD	1.330	.30389	1.3057	.14513
#1	.3251	.07061	.38772	7.4360
#2	.3339	.07049	.39797	7.4288
#3	.3296	.07090	.39327	7.4500

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Sample Name: S04 ISM-523 Acquired: 11/21/2015 14:07:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27032.	13844.	405350.
Stddev	86.	70.	2462.
%RSD	.31984	.50268	.60742
#1	27094.	13825.	408120.
#2	27070.	13921.	403430.
#3	26934.	13786.	404490.

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Sample Name: S05 ISM-524 Acquired: 11/21/2015 14:13:14 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Ag3280	As1890	Ba4554	Be3130	Cd2288	Co2286	Cr2677
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.12448	.31123	41.399	4.2975	3.134	9.0644	1.4552
Stddev	.00050	.00043	.683	.0607	.004	.0112	.0139
%RSD	.40063	.13687	1.6492	1.4128	.1397	.12385	.95591
#1	.12500	.31133	40.685	4.3653	3.131	9.0596	1.4593
#2	.12445	.31077	42.046	4.2481	3.133	9.0564	1.4667
#3	.12401	.31160	41.467	4.2791	3.139	9.0773	1.4398

Elem	Cu3273	Mn2576	Mo2020	Ni2316	Pb2203	Sb2068	Se1960
IS Ref	(Y_3710-2)	(Y_3710-2)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.4535	4.1979	.63363	5.6636	2.8384	.26899	.09875
Stddev	.0271	.0461	.00116	.0099	.0053	.00032	.00030
%RSD	1.8672	1.0973	.18358	.17555	.18803	.12003	.30111
#1	1.4445	4.2490	.63324	5.6597	2.8340	.26887	.09862
#2	1.4839	4.1851	.63271	5.6562	2.8369	.26875	.09855
#3	1.4319	4.1595	.63494	5.6749	2.8444	.26936	.09909

Elem	Ti3372	Tl1908	V_2924	Zn2062
IS Ref	(Y_3710-2)	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4438	.09620	.53058	10.086
Stddev	.0011	.00028	.00112	.122
%RSD	.2560	.29401	.21131	1.2069
#1	.4449	.09604	.53168	10.020
#2	.4440	.09604	.53061	10.227
#3	.4426	.09653	.52944	10.012

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Sample Name: S05 ISM-524 Acquired: 11/21/2015 14:13:14 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26488.	14077.	405690.
Stddev	39.	35.	4261.
%RSD	.14737	.25151	1.0502
#1	26520.	14040.	401410.
#2	26499.	14111.	405730.
#3	26444.	14078.	409930.

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Sample Name: S06 ISM-463 Acquired: 11/21/2015 14:18:46 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	K_7664	Mg2790	Na5895
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	1.2196	13.858	2.0623	2.695	1.422	6.4279
Stddev	.0018	.005	.0007	.012	.003	.0160
%RSD	.15124	.03811	.03431	.4600	.2038	.24847
#1	1.2215	13.864	2.0626	2.707	1.422	6.4460
#2	1.2178	13.853	2.0629	2.695	1.419	6.4218
#3	1.2195	13.858	2.0615	2.682	1.425	6.4158

Int. Std.	Y_3710
Units	Cts/S
Avg	13621.
Stddev	138.
%RSD	1.0151
#1	13642.
#2	13748.
#3	13473.

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Sample Name: S07 ISM-464 Acquired: 11/21/2015 14:23:30 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3082	Ca2179	Fe2611	Mg2790
IS Ref	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	2.3970	26.544	4.0307	2.772
Stddev	.0024	.171	.0023	.003
%RSD	.09810	.64515	.05671	.1211
#1	2.3962	26.363	4.0300	2.772
#2	2.3951	26.703	4.0289	2.768
#3	2.3996	26.567	4.0333	2.775

Int. Std.	Y_3710
Units	Cts/S
Avg	13567.
Stddev	64.
%RSD	.47072
#1	13612.
#2	13494.
#3	13595.

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Sample Name: S08 ISM-465 Acquired: 11/21/2015 14:28:19 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664	Na5895
IS Ref	(Y_3710)	(Y_3710)
Units	Cts/S	Cts/S
Avg	1.344	3.2654
Stddev	.018	.0466
%RSD	1.345	1.4280
#1	1.358	3.3109
#2	1.323	3.2177
#3	1.350	3.2676

Int. Std.	Y_3710
Units	Cts/S
Avg	13506.
Stddev	264.
%RSD	1.9550
#1	13532.
#2	13756.
#3	13230.

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Sample Name: S09 ISM-456 Acquired: 11/21/2015 14:33:01 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Na5895
IS Ref	(Y_3710)
Units	Cts/S
Avg	7.9724
Stddev	.0220
%RSD	.27596
#1	7.9497
#2	7.9740
#3	7.9936
Int. Std.	Y_3710
Units	Cts/S
Avg	13868.
Stddev	86.
%RSD	.62318
#1	13772.
#2	13941.
#3	13890.

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Sample Name: S10 ISM-457 Acquired: 11/21/2015 14:37:48 Type: Cal
Method: CLP ISM Method ICP5 A(v19) Mode: IR Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	K_7664
IS Ref	(Y_3710)
Units	Cts/S
Avg	.2579
Stddev	.0005
%RSD	.2071
#1	.2574
#2	.2585
#3	.2578
Int. Std.	Y_3710
Units	Cts/S
Avg	13755.
Stddev	59.
%RSD	.42739
#1	13693.
#2	13809.
#3	13764.

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Sample Name: ICV ISM-514 Acquired: 11/21/2015 14:42:40 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	501.75	2739.3	1002.3	511.16	498.52	10784.	480.4
Stddev	7.03	38.3	2.2	1.34	5.58	20.	1.5
%RSD	1.4007	1.3966	.21829	.26131	1.1194	.18687	.3223
#1	509.44	2742.5	999.88	512.33	504.88	10801.	479.4
#2	495.66	2699.5	1002.8	509.70	494.46	10762.	479.5
#3	500.15	2775.8	1004.2	511.45	496.21	10790.	482.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	484.15	503.91	487.89	5349.8	10630.	6444.	517.44
Stddev	1.24	7.58	6.77	26.7	51.	31.	6.99
%RSD	.25515	1.5038	1.3885	.49841	.4824	.4748	1.3515
#1	483.69	511.33	495.17	5368.5	10620.	6414.	524.68
#2	483.21	496.18	481.77	5319.3	10580.	6475.	510.72
#3	485.55	504.22	486.73	5361.6	10680.	6443.	516.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: ICV ISM-514 Acquired: 11/21/2015 14:42:40 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.61358	11005.	487.56	936.74	979.82	986.83	-.0233
Stddev	.27007	35.	1.01	4.74	2.24	2.70	.2181
%RSD	44.015	.32001	.20724	.50560	.22900	.27341	936.9
#1	-.50171	11032.	486.85	934.66	977.47	985.26	.2182
#2	-.41742	11018.	487.11	933.40	980.03	985.28	-.2062
#3	-.92160	10965.	488.71	942.16	981.95	989.94	-.0818
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	989.44	503.51	1003.1
Stddev	5.25	7.21	2.3
%RSD	.53040	1.4326	.23184
#1	985.77	510.77	1001.7
#2	987.10	496.35	1001.9
#3	995.45	503.40	1005.8
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: ICV ISM-514 Acquired: 11/21/2015 14:42:40 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICV002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28108.	14028.	407660.
Stddev	166.	16.	5168.
%RSD	.59154	.11120	1.2678
#1	28133.	14044.	402200.
#2	28261.	14027.	412480.
#3	27931.	14013.	408300.

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Sample Name: ICB Acquired: 11/21/2015 14:47:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10648	7.6703	-1.0825	.08966	.02754	-4.2645	-.0708
Stddev	.27688	15.470	.4528	.43327	.01287	5.4224	.1259
%RSD	260.02	201.69	41.831	483.26	46.743	127.15	177.8
#1	.08547	25.386	-1.4646	-.41057	.04185	-7.0936	-.1460
#2	-.15929	-3.1743	-.58232	.34719	.02387	-7.6872	.0745
#3	.39327	.79970	-1.2007	.33235	.01690	1.9874	-.1409
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.02844	.01948	.55733	6.0915	135.9	30.12	.06922
Stddev	.10499	.25529	.64717	8.6382	19.0	20.34	.03115
%RSD	369.11	1310.7	116.12	141.81	14.00	67.55	44.993
#1	-.05352	.30819	.27456	1.2554	119.7	52.67	.06790
#2	.08681	-.17641	1.2978	.95467	131.1	24.53	.03876
#3	-.11862	-.07334	.09967	16.065	156.8	13.15	.10101
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICB Acquired: 11/21/2015 14:47:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.55075	39.513	-.02246	-.70028	2.9715	1.9712	.0347
Stddev	.04981	17.876	.23836	1.2756	2.9035	.8829	.1818
%RSD	9.0438	45.241	1061.4	182.15	97.710	44.791	524.3
#1	-.49498	40.685	.07749	-.66731	5.6406	1.1168	-.1747
#2	-.59082	21.080	.14966	.55849	-.12000	2.8801	.1268
#3	-.56644	56.775	-.29452	-1.9920	3.3939	1.9167	.1519
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.29359	.12194	.05101
Stddev	.52720	.15816	.02389
%RSD	179.57	129.71	46.828
#1	-.56249	.00758	.07803
#2	-.63212	.05579	.03273
#3	.31385	.30244	.04226
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICB Acquired: 11/21/2015 14:47:31 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICB002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28483.	14121.	408960.
Stddev	261.	77.	4353.
%RSD	.91756	.54196	1.0644
#1	28784.	14189.	407770.
#2	28319.	14135.	405330.
#3	28345.	14038.	413780.

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Sample Name: ICSA ISM-519 Acquired: 11/21/2015 14:52:18 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19525	264620.	-4.1707	8.3771	.23681	263050.	1.167
Stddev	.56683	5040.	1.6759	.2051	.01504	6863.	.093
%RSD	290.31	1.9045	40.184	2.4485	6.3520	2.6091	7.954
#1	-.37831	266620.	-2.8400	8.5859	.23160	257150.	1.271
#2	.20896	258890.	-3.6192	8.1759	.25377	261410.	1.091
#3	.75511	268360.	-6.0529	8.3695	.22507	270580.	1.139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53063	60.031	-3.8674	104020.	409.5	271600.	18.315
Stddev	.14166	.996	.1144	1964.	27.5	5110.	.285
%RSD	26.697	1.6588	2.9587	1.8879	6.711	1.882	1.5555
#1	-.67777	58.884	-3.9631	104790.	412.8	273700.	17.999
#2	-.51894	60.674	-3.8985	101790.	380.5	265700.	18.550
#3	-.39517	60.535	-3.7407	105480.	435.2	275300.	18.397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICSA ISM-519 Acquired: 11/21/2015 14:52:18 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.4251	128.87	2.9545	-.41139	4.7530	-.42710	3.403
Stddev	.2255	13.03	.3119	1.3800	.9673	3.0907	.044
%RSD	15.824	10.109	10.555	335.44	20.351	723.64	1.281
#1	1.5993	120.38	3.3064	-.39133	4.6992	-3.2981	3.397
#2	1.1704	122.36	2.8447	.95846	3.8137	2.8442	3.449
#3	1.5055	143.87	2.7125	-1.8013	5.7460	-.82748	3.362
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-2.0452	1.7814	1.2077
Stddev	1.7445	.1025	.0959
%RSD	85.296	5.7534	7.9446
#1	-3.6397	1.8103	1.2311
#2	-2.3141	1.8662	1.2897
#3	-.18192	1.6675	1.1022
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICSA ISM-519 Acquired: 11/21/2015 14:52:18 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSA002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26051.	13326.	363290.
Stddev	93.	279.	4818.
%RSD	.35581	2.0907	1.3262
#1	25966.	13135.	368850.
#2	26150.	13646.	360700.
#3	26037.	13197.	360320.

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Sample Name: ICSAB ISM-522 Acquired: 11/21/2015 14:57:09 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	214.30	266680.	97.272	537.75	546.05	262490.	1014.
Stddev	.63	1169.	1.082	3.23	5.76	2306.	4.
%RSD	.29566	.43845	1.1122	.60008	1.0539	.87848	.4411
#1	214.98	265480.	97.449	535.87	542.28	262890.	1009.
#2	214.21	266730.	98.255	535.89	552.68	260010.	1016.
#3	213.72	267820.	96.113	541.47	543.20	264570.	1018.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	468.23	580.02	505.74	104600.	319.0	273200.	553.54
Stddev	1.77	1.60	1.27	458.	16.3	1597.	1.66
%RSD	.37708	.27571	.25017	.43811	5.113	.5846	.30031
#1	466.38	579.97	507.13	104080.	336.6	271400.	554.63
#2	468.42	581.64	505.42	104800.	304.4	274600.	554.37
#3	469.90	578.44	504.66	104930.	316.0	273500.	551.63
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: ICSAB ISM-522 Acquired: 11/21/2015 14:57:09 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.3507	110.95	936.47	45.525	596.72	51.011	3.529
Stddev	.0914	9.89	3.12	.923	2.73	2.255	.155
%RSD	6.7687	8.9168	.33267	2.0265	.45685	4.4208	4.378
#1	1.2507	122.34	933.05	46.589	594.10	53.261	3.373
#2	1.3713	105.99	937.21	44.965	599.54	48.751	3.682
#3	1.4301	104.51	939.14	45.020	596.52	51.019	3.532
Check ?	None	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	88.622	518.84	982.22
Stddev	.885	1.36	3.60
%RSD	.99817	.26270	.36690
#1	89.314	520.20	978.50
#2	87.625	518.85	982.45
#3	88.926	517.47	985.70
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: ICSAB ISM-522 Acquired: 11/21/2015 14:57:09 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: ICSAB002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	25544.	13203.	361410.
Stddev	116.	49.	1737.
%RSD	.45552	.36854	.48054
#1	25645.	13152.	361350.
#2	25569.	13249.	359700.
#3	25416.	13208.	363180.

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Sample Name: CCV ISM-538 Acquired: 11/21/2015 15:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV007

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	758.73	51855.	2498.2	9980.3	1047.3	52342.	986.8
Stddev	24.80	61.	9.1	257.1	28.1	178.	1.9
%RSD	3.2688	.11851	.36542	2.5758	2.6861	.33932	.1910
#1	761.52	51835.	2494.2	10171.	1045.5	52545.	986.1
#2	782.02	51924.	2491.7	9688.1	1076.3	52264.	985.4
#3	732.66	51805.	2508.6	10081.	1020.1	52216.	988.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4815.6	10266.	12235.	26034.	38710.	52420.	5040.0
Stddev	9.1	339.	416.	92.	30.	133.	94.7
%RSD	.18977	3.2978	3.3969	.35305	.0781	.2536	1.8781
#1	4810.1	10311.	12245.	26138.	38730.	52550.	5046.9
#2	4810.6	10579.	12646.	26001.	38720.	52410.	5131.0
#3	4826.2	9906.8	11815.	25963.	38670.	52290.	4942.1
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV ISM-538 Acquired: 11/21/2015 15:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV007

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	983.50	26488.	4795.3	9450.5	2448.7	1244.7	1017.
Stddev	1.80	29.	10.3	21.4	10.9	3.6	34.
%RSD	.18263	.10996	.21494	.22670	.44344	.28914	3.303
#1	982.55	26522.	4789.3	9433.2	2445.2	1244.2	1023.
#2	982.38	26473.	4789.5	9443.7	2440.0	1241.4	1047.
#3	985.57	26469.	4807.2	9474.5	2460.8	1248.6	980.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	933.61	2553.1	4972.3
Stddev	2.45	85.3	8.6
%RSD	.26259	3.3429	.17363
#1	932.55	2569.0	4967.0
#2	931.88	2629.3	4967.7
#3	936.42	2460.9	4982.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV ISM-538 Acquired: 11/21/2015 15:02:07 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV007

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26168.	13413.	381100.
Stddev	32.	198.	12202.
%RSD	.12315	1.4785	3.2019
#1	26204.	13184.	381450.
#2	26158.	13534.	368720.
#3	26142.	13521.	393120.

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Sample Name: CCB Acquired: 11/21/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB007

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.34962	-38.798	-.45699	.24415	.03099	-5.0739	.0174
Stddev	.34737	26.841	.45074	.54986	.01002	3.5076	.0439
%RSD	99.355	69.180	98.634	225.21	32.323	69.129	251.9
#1	.09722	-35.493	-.19911	.77732	.04238	-6.4361	-.0151
#2	.74580	-13.763	-.19440	.27613	.02706	-7.6960	.0674
#3	.20585	-67.139	-.97745	-.32100	.02353	-1.0896	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.00421	-.12927	.09324	10.065	105.3	21.52	.07466
Stddev	.08100	.32455	.05558	8.256	73.5	14.88	.02163
%RSD	1923.8	251.06	59.610	82.021	69.80	69.16	28.973
#1	-.00526	.24326	.13876	.75927	77.11	11.59	.05429
#2	.08953	-.28020	.03130	12.928	50.09	38.63	.09736
#3	-.07164	-.35086	.10965	16.508	188.8	14.34	.07232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB Acquired: 11/21/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB007

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.15305	8.2105	.21575	-1.2861	1.1014	.91784	-.0609
Stddev	.17253	27.320	.13198	.5238	.7677	1.0882	.1893
%RSD	112.73	332.74	61.174	40.726	69.703	118.56	310.9
#1	-.03956	30.354	.20833	-1.8342	.21800	.91352	-.0860
#2	.20528	16.597	.08763	-.79056	1.6070	2.0081	-.2364
#3	.29343	-22.319	.35128	-1.2336	1.4793	-.16815	.1397
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.61410	.02812	.11982
Stddev	.28786	.03614	.03411
%RSD	46.875	128.52	28.463
#1	.74618	.05990	.15746
#2	.28391	.03565	.11104
#3	.81222	-.01119	.09097
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: CCB Acquired: 11/21/2015 15:07:21 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB007

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28617.	13956.	404240.
Stddev	152.	576.	6778.
%RSD	.53066	4.1247	1.6768
#1	28443.	13758.	397190.
#2	28719.	13506.	404810.
#3	28691.	14605.	410710.

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Sample Name: QQ89995-001 Acquired: 11/21/2015 15:12:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBW002

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.41330	-25.878	-.12370	.72306	.01748	-60.167	-.1098
Stddev	.38852	31.110	1.1307	.16300	.00904	3.806	.1616
%RSD	94.004	120.22	914.02	22.544	51.690	6.3256	147.2
#1	.52184	3.0522	1.0630	.56489	.01393	-58.405	.0247
#2	.73601	-21.900	-1.1884	.89050	.02775	-57.561	-.2891
#3	-.01795	-58.786	-.24573	.71378	.01076	-64.534	-.0650
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.16354	-.26254	.15540	8.1662	-20.92	13.45	.16716
Stddev	.14039	.07516	.60333	15.831	20.57	3.87	.05580
%RSD	85.846	28.628	388.24	193.85	98.31	28.77	33.384
#1	.13399	-.22684	-.39632	26.416	-13.00	9.495	.20801
#2	.31636	-.21188	.79964	-1.8625	-5.493	13.62	.10357
#3	.04027	-.34889	.06288	-.05479	-44.27	17.23	.18989
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QQ89995-001 Acquired: 11/21/2015 15:12:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBW002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.49469	-35.411	.06511	-.96039	.80194	1.9879	-.0118
Stddev	.26616	13.640	.15859	1.2852	.84152	1.7473	.0926
%RSD	53.804	38.519	243.59	133.82	104.94	87.895	782.9
#1	-.33994	-23.166	.14418	-.33077	.31992	1.3449	-.1144
#2	-.80203	-32.954	.16861	-.11142	.31226	3.9656	.0654
#3	-.34211	-50.112	-.11747	-2.4390	1.7736	.65326	.0136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.62619	-.12815	.32771
Stddev	1.3529	.23726	.06290
%RSD	216.05	185.14	19.194
#1	1.7234	.04321	.26377
#2	1.0406	-.39896	.32986
#3	-.88543	-.02872	.38951
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QQ89995-001 Acquired: 11/21/2015 15:12:08 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: PBW002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29662.	14298.	422490.
Stddev	126.	106.	1364.
%RSD	.42424	.73915	.32287
#1	29656.	14196.	424030.
#2	29540.	14407.	421970.
#3	29791.	14291.	421460.

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Sample Name: QQ89995-002 Acquired: 11/21/2015 15:16:55 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS001

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.428	385.58	21.268	389.22	10.016	10340.	9.172
Stddev	.527	26.38	.410	2.98	.220	90.	.148
%RSD	2.5788	6.8414	1.9255	.76491	2.2002	.87069	1.619
#1	19.907	356.72	21.505	385.79	9.8358	10236.	9.343
#2	20.961	391.58	21.504	391.16	10.262	10392.	9.074
#3	20.417	408.44	20.795	390.70	9.9513	10392.	9.099
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.729	20.190	47.367	219.64	10240.	10490.	30.876
Stddev	.139	.166	.720	5.55	56.	23.	.673
%RSD	.14712	.82358	1.5196	2.5279	.5481	.2221	2.1809
#1	94.879	20.002	46.853	213.44	10180.	10460.	30.288
#2	94.603	20.320	48.190	221.35	10260.	10500.	31.611
#3	94.704	20.247	47.059	224.14	10290.	10500.	30.731
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: QQ89995-002 Acquired: 11/21/2015 15:16:55 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS002

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54793	10742.	75.300	17.304	120.16	71.296	.1423
Stddev	.22495	69.	.338	1.134	1.48	1.145	.2021
%RSD	41.055	.64563	.44881	6.5531	1.2318	1.6059	142.1
#1	-.37284	10665.	75.685	16.628	121.21	72.590	-.0330
#2	-.80164	10762.	75.166	18.613	118.47	70.417	.0965
#3	-.46932	10799.	75.050	16.670	120.80	70.880	.3634
Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.550	97.747	117.52
Stddev	.430	2.563	.21
%RSD	.86765	2.6220	.17918
#1	49.557	95.422	117.76
#2	49.116	100.50	117.41
#3	49.976	97.324	117.38
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: QQ89995-002 Acquired: 11/21/2015 15:16:55 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: LCS002

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28768.	14306.	412360.
Stddev	87.	70.	7061.
%RSD	.30087	.48634	1.7123
#1	28681.	14355.	418120.
#2	28767.	14337.	404490.
#3	28854.	14227.	414480.

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Sample Name: QK12004-010 Acquired: 11/21/2015 15:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.17276	89.939	.16119	16.904	.08930	45200.	-.0561
Stddev	.15793	54.658	.83200	.380	.01221	231.	.1355
%RSD	91.416	60.772	516.16	2.2472	13.673	.51018	241.3
#1	.26932	30.047	-.52149	16.480	.08300	44936.	-.0816
#2	.25846	102.65	1.0879	17.021	.08153	45299.	.0903
#3	-.00949	137.12	-.08286	17.212	.10337	45364.	-.1771
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.08492	.32499	.43099	232.50	1971.	12300.	67.656
Stddev	.15727	.17902	.42077	8.04	45.	98.	1.158
%RSD	185.20	55.085	97.628	3.4598	2.305	.8003	1.7123
#1	.09746	.41352	.91252	241.78	1919.	12200.	68.930
#2	.23554	.44250	.24628	228.20	2004.	12390.	67.369
#3	-.07824	.11895	.13417	227.52	1989.	12320.	66.667
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-010 Acquired: 11/21/2015 15:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36204	36576.	.01460	.37891	2.1117	3.3380	.4186
Stddev	.16909	116.	.12162	.94583	.1047	2.3545	.0467
%RSD	46.705	.31600	832.78	249.62	4.9572	70.538	11.15
#1	-.43740	36474.	-.02829	.48276	2.0146	2.4871	.3821
#2	-.16837	36554.	.15186	-.61456	2.0978	1.5271	.4024
#3	-.48035	36702.	-.07976	1.2685	2.2226	5.9997	.4712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3316	-.05117	3.6436
Stddev	1.5050	.09580	.0410
%RSD	113.02	187.22	1.1257
#1	-.13611	-.04563	3.6791
#2	2.8713	.04174	3.5987
#3	1.2596	-.14962	3.6531
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-010 Acquired: 11/21/2015 15:21:40 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27867.	13942.	400180.
Stddev	141.	204.	6315.
%RSD	.50503	1.4656	1.5781
#1	27946.	14150.	394590.
#2	27951.	13934.	398930.
#3	27705.	13742.	407030.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.303%	102.17%	97.565%
Range			

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Sample Name: QK12004-010L(5) Acquired: 11/21/2015 15:26:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47375	13.931	.88298	3.6443	.04041	9021.3	-.1066
Stddev	.34170	16.405	.24722	.5044	.01736	42.8	.1175
%RSD	72.126	117.76	27.999	13.841	42.967	.47469	110.3
#1	.41440	-4.6453	1.1157	4.0339	.03109	8975.5	.0126
#2	.16562	26.432	.62346	3.0746	.06044	9028.1	-.1100
#3	.84124	20.007	.90975	3.8245	.02969	9060.4	-.2223
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.05146	-.01142	-.04047	49.584	484.1	2477.	13.955
Stddev	.08241	.24337	.81040	8.786	46.7	35.	.644
%RSD	160.15	2130.4	2002.4	17.720	9.648	1.401	4.6177
#1	-.14512	.20217	.26718	52.452	485.4	2450.	13.522
#2	-.01918	.03993	.57105	56.578	530.1	2464.	14.696
#3	.00992	-.27638	-.95965	39.722	436.7	2516.	13.648
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-010L(5) Acquired: 11/21/2015 15:26:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.44157	7470.5	.14624	-.80614	1.6391	2.1090	.0692
Stddev	.23225	43.5	.19103	.89581	.6770	.7835	.0102
%RSD	52.596	.58276	130.63	111.12	41.302	37.150	14.79
#1	-.28993	7448.2	.19069	-1.0033	.86435	1.2529	.0608
#2	-.32583	7442.6	-.06310	.17185	1.9364	2.2836	.0806
#3	-.70894	7520.7	.31113	-1.5869	2.1166	2.7904	.0662
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.11474	-.01160	.71736
Stddev	1.3851	.27494	.05823
%RSD	1207.2	2370.5	8.1169
#1	-.98682	-.01160	.65857
#2	1.4824	.26334	.71851
#3	-.83981	-.28653	.77501
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-010L(5) Acquired: 11/21/2015 15:26:26 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28789.	14072.	399740.
Stddev	293.	80.	16563.
%RSD	1.0178	.56573	4.1435
#1	28908.	13992.	408510.
#2	29004.	14151.	380640.
#3	28455.	14071.	410080.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.55%	103.12%	97.457%
Range			

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Sample Name: QK12004-010DU Acquired: 11/21/2015 15:31:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.23288	73.482	.34242	16.425	.09612	45289.	-.0943
Stddev	.17681	49.333	.16848	.871	.02002	183.	.0441
%RSD	75.922	67.136	49.203	5.3042	20.834	.40509	46.72
#1	.30457	61.826	.49521	15.723	.11916	45206.	-.0486
#2	.03149	31.021	.16173	16.152	.08295	45499.	-.1365
#3	.36258	127.60	.37032	17.400	.08624	45161.	-.0980
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.07368	.40689	.46759	237.85	1991.	12330.	67.602
Stddev	.16206	.06593	.46293	10.20	89.	97.	.910
%RSD	219.94	16.204	99.005	4.2875	4.444	.7874	1.3454
#1	.00206	.40846	.24049	246.06	1996.	12250.	68.630
#2	-.04022	.34018	.16205	241.06	1901.	12430.	67.276
#3	.25921	.47202	1.0002	226.44	2078.	12300.	66.901
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-010DU Acquired: 11/21/2015 15:31:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.29425	36710.	.26640	-.19630	-.24008	1.1440	.6266
Stddev	.39059	136.	.19319	1.0136	.72987	.3342	.2659
%RSD	132.74	.37052	72.520	516.35	304.01	29.213	42.44
#1	-.74517	36739.	.42862	-1.1860	.36580	1.3932	.6818
#2	-.06134	36829.	.31790	.83962	-.03569	1.2746	.8605
#3	-.07622	36562.	.05267	-.24256	-1.0504	.76425	.3374
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.2450	.25567	2.0199
Stddev	.5423	.04502	.1648
%RSD	24.157	17.610	8.1577
#1	2.8706	.23216	2.1672
#2	1.9572	.22726	1.8419
#3	1.9073	.30758	2.0505
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-010DU Acquired: 11/21/2015 15:31:12 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC7G3D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28157.	14221.	402020.
Stddev	123.	138.	4366.
%RSD	.43643	.97173	1.0860
#1	28031.	14061.	397100.
#2	28277.	14309.	405440.
#3	28164.	14291.	403530.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.325%	104.21%	98.013%
Range			

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Sample Name: QK12004-010MS Acquired: 11/21/2015 15:35:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.836	2124.1	38.656	1918.0	49.766	42629.	46.47
Stddev	.436	47.8	.798	5.7	.897	155.	.01
%RSD	.87528	2.2489	2.0653	.29941	1.8023	.36468	.0240
#1	49.765	2069.1	38.876	1912.7	49.224	42619.	46.47
#2	50.303	2154.1	37.770	1917.2	50.802	42479.	46.47
#3	49.439	2149.3	39.321	1924.1	49.273	42789.	46.49
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	464.17	197.09	231.10	1224.1	1911.	11690.	561.75
Stddev	1.27	3.64	4.48	15.5	40.	53.	10.55
%RSD	.27364	1.8471	1.9402	1.2699	2.093	.4554	1.8777
#1	462.79	195.15	227.61	1227.5	1887.	11640.	556.06
#2	465.29	201.29	236.15	1207.1	1890.	11680.	573.92
#3	464.41	194.84	229.53	1237.6	1958.	11740.	555.26
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-010MS Acquired: 11/21/2015 15:35:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.54866	34726.	461.37	17.694	97.992	99.266	.8313
Stddev	.08112	73.	1.16	.467	.167	2.420	.3032
%RSD	14.786	.21092	.25220	2.6414	.17022	2.4376	36.47
#1	-.45718	34677.	460.26	17.255	97.929	96.594	.5546
#2	-.57695	34691.	462.58	18.185	97.866	99.897	1.155
#3	-.61185	34810.	461.26	17.641	98.181	101.31	.7840
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	47.725	485.24	484.19
Stddev	.281	8.78	.82
%RSD	.58869	1.8102	.16887
#1	47.820	479.94	483.36
#2	47.946	495.38	484.99
#3	47.408	480.40	484.21
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-010MS Acquired: 11/21/2015 15:35:57 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27806.	14056.	399390.
Stddev	79.	128.	8610.
%RSD	.28342	.90964	2.1559
#1	27741.	14165.	404250.
#2	27894.	14088.	389450.
#3	27783.	13916.	404480.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.086%	103.01%	97.372%
Range			

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Sample Name: QK12004-010A Acquired: 11/21/2015 15:40:44 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.851	421.61	19.942	401.26	10.094	53633.	9.249
Stddev	.272	44.27	1.017	2.11	.065	188.	.157
%RSD	1.3692	10.501	5.1012	.52653	.63976	.34993	1.699
#1	20.110	418.76	20.988	398.86	10.148	53420.	9.091
#2	19.876	378.83	18.956	402.84	10.113	53773.	9.250
#3	19.568	467.24	19.882	402.08	10.023	53708.	9.406
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	94.204	20.329	45.780	428.77	12150.	22230.	94.973
Stddev	.471	.242	.575	12.78	55.	82.	.762
%RSD	.50027	1.1886	1.2553	2.9815	.4519	.3683	.80270
#1	93.729	20.307	45.834	420.81	12140.	22150.	95.366
#2	94.211	20.581	45.180	421.99	12100.	22310.	95.458
#3	94.672	20.099	46.326	443.51	12210.	22240.	94.094
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-010A Acquired: 11/21/2015 15:40:44 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.19971	45313.	75.229	19.630	116.34	71.284	.7124
Stddev	.24229	107.	.300	.392	.73	1.205	.0774
%RSD	121.32	.23554	.39912	1.9971	.62606	1.6901	10.87
#1	.07866	45198.	74.919	20.082	115.51	71.815	.6237
#2	-.36311	45332.	75.252	19.426	116.65	69.905	.7469
#3	-.31468	45409.	75.518	19.383	116.86	72.133	.7665
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	47.453	97.914	120.78
Stddev	.803	.410	.24
%RSD	1.6920	.41868	.19957
#1	46.527	98.257	120.54
#2	47.879	98.025	120.78
#3	47.953	97.460	121.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-010A Acquired: 11/21/2015 15:40:44 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G3A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27692.	14101.	398620.
Stddev	127.	155.	1995.
%RSD	.45692	1.0991	.50058
#1	27546.	14220.	398270.
#2	27766.	13926.	396820.
#3	27764.	14157.	400760.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.685%	103.34%	97.183%
Range			

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Sample Name: QK12004-011 Acquired: 11/21/2015 15:45:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G4

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.27841	67.705	1.0903	14.263	.09578	40874.	-.0454
Stddev	.50970	5.030	1.6083	.410	.02038	113.	.3197
%RSD	183.08	7.4287	147.51	2.8780	21.278	.27754	703.8
#1	.30678	61.956	.29138	14.612	.11931	40773.	-.0470
#2	-.51663	69.866	.03786	13.811	.08340	40852.	.2750
#3	-.62537	71.293	2.9415	14.365	.08465	40997.	-.3643
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10603	.25885	.33168	193.78	2068.	11200.	53.732
Stddev	.06871	.43896	.12701	5.13	34.	49.	.533
%RSD	64.802	169.58	38.295	2.6459	1.627	.4351	.99242
#1	.15992	.11216	.46758	193.22	2076.	11180.	54.344
#2	.12951	-.08798	.31148	199.16	2097.	11160.	53.373
#3	.02866	.75237	.21597	188.95	2031.	11250.	53.477
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-011 Acquired: 11/21/2015 15:45:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G4

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.50638	31546.	.07280	1.9358	1.2583	1.2599	.2914
Stddev	.39172	56.	.10882	.1433	1.3429	2.7765	.1025
%RSD	77.358	.17800	149.48	7.4010	106.72	220.38	35.16
#1	-.89668	31499.	.19359	2.0105	1.4952	4.3462	.1990
#2	-.50922	31532.	.04240	1.7706	-.18725	-1.0349	.4016
#3	-.11324	31608.	-.01759	2.0263	2.4669	.46828	.2736
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.8399	.23555	1.8348
Stddev	.4154	.42973	.0272
%RSD	22.576	182.44	1.4813
#1	1.6948	.09960	1.8281
#2	2.3084	.71681	1.8116
#3	1.5166	-.10976	1.8647
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-011 Acquired: 11/21/2015 15:45:31 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G4

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27909.	13736.	399460.
Stddev	100.	216.	3069.
%RSD	.35896	1.5734	.76834
#1	28011.	13985.	395940.
#2	27905.	13628.	400860.
#3	27811.	13596.	401580.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	98.450%	100.66%	97.388%
Range			

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Sample Name: QK12004-012 Acquired: 11/21/2015 15:50:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G5

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.47617	59.477	.70369	14.765	.08859	41909.	-.1209
Stddev	.34823	60.486	2.0400	.106	.01429	106.	.1014
%RSD	73.131	101.70	289.89	.71989	16.125	.25306	83.88
#1	.58843	-2.9114	2.9417	14.792	.08041	41786.	-.2237
#2	.75442	63.481	.22115	14.854	.10509	41968.	-.1179
#3	.08566	117.86	-1.0517	14.647	.08028	41972.	-.0210
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.04564	.09198	.09806	156.45	2145.	11490.	42.268
Stddev	.04757	.16040	.89344	12.05	22.	38.	.428
%RSD	104.24	174.38	911.10	7.7041	1.037	.3304	1.0135
#1	.00692	-.01033	-.09908	151.13	2124.	11490.	41.773
#2	-.08575	.27684	-.68034	147.98	2168.	11460.	42.523
#3	-.05808	.00944	1.0736	170.25	2143.	11530.	42.508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-012 Acquired: 11/21/2015 15:50:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G5

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.36283	31839.	.09097	1.1526	.28516	2.2042	.2150
Stddev	.14170	148.	.15227	1.0476	2.3280	.5900	.1995
%RSD	39.055	.46578	167.38	90.896	816.40	26.768	92.79
#1	-.19923	31674.	.26584	2.2524	2.7357	2.4716	.3518
#2	-.44194	31880.	-.01234	1.0388	-1.8972	2.6133	.3070
#3	-.44731	31962.	.01942	.16643	.01699	1.5278	-.0139
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.3344	.00893	1.5870
Stddev	1.5643	.30617	.1285
%RSD	117.22	3429.0	8.0952
#1	-.01532	.31346	1.6341
#2	.96980	-.29885	1.6853
#3	3.0489	.01217	1.4416
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-012 Acquired: 11/21/2015 15:50:18 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G5

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27765.	13918.	399520.
Stddev	78.	62.	2495.
%RSD	.28040	.44268	.62454
#1	27805.	13988.	401990.
#2	27815.	13897.	397000.
#3	27675.	13870.	399570.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.942%	102.00%	97.403%
Range			

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Sample Name: QK12004-013 Acquired: 11/21/2015 15:55:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G6

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.24246	60.964	.57350	15.176	.11043	43026.	-.2111
Stddev	.45125	39.088	1.4079	.402	.01325	144.	.2472
%RSD	186.11	64.117	245.49	2.6489	11.995	.33403	117.1
#1	.68737	45.534	1.0820	14.769	.12566	42876.	-.0141
#2	-.21486	31.946	1.6565	15.573	.10396	43038.	-.4884
#3	.25486	105.41	-1.0180	15.184	.10166	43163.	-.1306
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.10148	.27644	-.11129	184.56	2220.	11720.	53.922
Stddev	.17469	.44430	.52789	12.57	95.	84.	.843
%RSD	172.14	160.72	474.35	6.8104	4.285	.7137	1.5637
#1	-.06025	-.07856	.37476	170.97	2171.	11650.	54.244
#2	.28675	.13320	-.03574	195.76	2159.	11810.	52.965
#3	.07794	.77469	-.67288	186.96	2330.	11690.	54.556
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-013 Acquired: 11/21/2015 15:55:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G6

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.37406	32583.	.13166	.37503	1.0445	1.1698	.5414
Stddev	.04762	90.	.20526	1.7945	2.2272	1.0430	.2638
%RSD	12.730	.27760	155.90	478.50	213.22	89.166	48.72
#1	-.42510	32498.	-.00677	2.4356	1.1530	.71411	.8318
#2	-.33083	32573.	.03427	-.46607	3.2155	.43211	.4760
#3	-.36623	32678.	.36749	-.84444	-1.2348	2.3631	.3165
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	.98166	-.16302	1.7072
Stddev	1.4272	.22744	.0331
%RSD	145.38	139.52	1.9359
#1	-.12327	-.42551	1.7437
#2	.47527	-.03920	1.6987
#3	2.5930	-.02435	1.6793
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-013 Acquired: 11/21/2015 15:55:04 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC7G6

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	27629.	13904.	393210.
Stddev	131.	144.	3201.
%RSD	.47258	1.0350	.81418
#1	27623.	14066.	392230.
#2	27763.	13793.	396790.
#3	27502.	13852.	390620.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	97.462%	101.89%	95.865%
Range			

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Sample Name: QK12004-014 Acquired: 11/21/2015 15:59:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC764

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.38104	-6.1397	-.59888	.12867	.02585	-43.514	-.1528
Stddev	.08760	20.199	.26350	.28987	.01749	1.920	.0383
%RSD	22.991	328.98	44.000	225.28	67.666	4.4127	25.04
#1	-.32223	-28.962	-.31089	.41026	.04605	-45.315	-.1296
#2	-.48172	1.1068	-.65781	.14456	.01567	-41.494	-.1969
#3	-.33917	9.4359	-.82792	-.16881	.01584	-43.735	-.1318
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.19167	-.00882	.27047	26.353	-67.18	20.19	1.1845
Stddev	.14063	.10266	.33486	10.803	35.13	16.33	.0701
%RSD	73.370	1164.5	123.81	40.994	52.29	80.88	5.9200
#1	.30476	-.11101	.00658	31.669	-76.75	22.08	1.2576
#2	.23603	.09431	.15766	13.922	-28.26	35.48	1.1782
#3	.03421	-.00975	.64717	33.469	-96.53	2.995	1.1178
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK12004-014 Acquired: 11/21/2015 15:59:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC764

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.63893	.57055	.20317	.12791	1.9323	-.61824	-.0306
Stddev	.17799	9.6825	.13409	.80381	.8294	.71913	.1110
%RSD	27.857	1697.1	65.997	628.43	42.921	116.32	363.2
#1	-.80226	-7.5945	.35782	-.66895	2.3993	-1.2251	.0350
#2	-.44923	11.267	.11941	.93850	2.4229	.17605	-.1587
#3	-.66531	-1.9613	.13227	.11417	.97472	-.80567	.0320
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.0839	-.06625	1.1096
Stddev	.8006	.01558	.0265
%RSD	73.864	23.511	2.3904
#1	.19394	-.05576	1.1329
#2	1.3122	-.05883	1.0808
#3	1.7457	-.08414	1.1152
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK12004-014 Acquired: 11/21/2015 15:59:52 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC764

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28834.	14186.	419130.
Stddev	55.	53.	6762.
%RSD	.18917	.37575	1.6135
#1	28892.	14241.	411630.
#2	28785.	14181.	420970.
#3	28824.	14135.	424770.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.71%	103.96%	102.18%
Range			

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Sample Name: QK04017-001 Acquired: 11/21/2015 16:04:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	107.07	2739.3	1019.7	526.50	519.74	10753.	510.1
Stddev	1.26	25.4	5.7	.40	4.98	3.	2.8
%RSD	1.1803	.92841	.56038	.07504	.95880	.03086	.5545
#1	108.46	2762.7	1014.6	526.18	523.46	10750.	507.7
#2	106.76	2742.9	1025.9	526.94	521.68	10752.	513.2
#3	105.99	2712.3	1018.6	526.38	514.08	10757.	509.4
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	502.01	532.13	503.93	10666.	10550.	6542.	538.85
Stddev	2.86	4.99	4.29	28.	48.	36.	5.21
%RSD	.56925	.93743	.85149	.26668	.4532	.5575	.96661
#1	499.45	536.47	506.66	10640.	10500.	6509.	543.13
#2	505.09	533.23	506.15	10697.	10560.	6534.	540.37
#3	501.47	526.68	498.98	10662.	10600.	6581.	533.05
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: QK04017-001 Acquired: 11/21/2015 16:04:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.65374	11124.	501.26	956.49	1016.6	1047.4	-.0235
Stddev	.21687	22.	2.98	4.97	8.0	5.7	.1714
%RSD	33.173	.19799	.59432	.51937	.78551	.54691	730.0
#1	-.87522	11120.	498.42	952.48	1008.9	1044.0	.0799
#2	-.44181	11147.	504.36	962.05	1024.8	1054.0	-.2214
#3	-.64419	11103.	500.99	954.95	1016.0	1044.3	.0710
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1013.7	515.68	1012.4
Stddev	4.6	4.53	5.2
%RSD	.45048	.87865	.51031
#1	1009.8	519.27	1008.5
#2	1018.7	517.18	1018.2
#3	1012.5	510.59	1010.4
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-001 Acquired: 11/21/2015 16:04:39 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28071.	13774.	403690.
Stddev	126.	122.	5594.
%RSD	.44784	.88725	1.3858
#1	28077.	13744.	398200.
#2	27943.	13908.	403490.
#3	28194.	13669.	409380.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.023%	100.94%	98.419%
Range			

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Sample Name: QK04017-001L(5) Acquired: 11/21/2015 16:09:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.703	530.59	195.08	103.11	102.16	2097.3	94.63
Stddev	.269	28.11	.28	2.32	1.08	58.4	.04
%RSD	1.2379	5.2981	.14199	2.2492	1.0579	2.7867	.0389
#1	21.397	498.43	195.10	100.44	102.58	2032.6	94.67
#2	21.898	542.89	195.34	104.28	100.93	2112.9	94.61
#3	21.816	550.46	194.79	104.61	102.97	2146.3	94.61
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	99.110	105.71	101.32	2088.6	2099.	1303.	107.50
Stddev	.071	.76	1.09	44.3	48.	4.	.90
%RSD	.07206	.71436	1.0791	2.1231	2.303	.3383	.83939
#1	99.180	105.67	102.48	2037.6	2056.	1297.	107.91
#2	99.037	104.98	100.31	2109.5	2091.	1306.	106.46
#3	99.114	106.49	101.17	2118.6	2151.	1305.	108.12
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-001L(5) Acquired: 11/21/2015 16:09:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.63638	2255.7	99.013	189.29	194.87	196.37	.0148
Stddev	.14490	66.2	.093	1.04	.64	.69	.1039
%RSD	22.769	2.9370	.09381	.55064	.32745	.35119	702.7
#1	-.49204	2179.3	98.981	188.23	195.14	197.13	.1260
#2	-.78183	2297.0	98.941	189.34	195.32	196.18	-.0798
#3	-.63527	2290.8	99.118	190.31	194.14	195.79	-.0018
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	202.08	101.15	196.73
Stddev	.27	.82	.27
%RSD	.13393	.80811	.13775
#1	202.30	101.40	196.67
#2	201.78	100.23	196.49
#3	202.18	101.80	197.02
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-001L(5) Acquired: 11/21/2015 16:09:30 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28517.	14091.	406530.
Stddev	149.	320.	2296.
%RSD	.52390	2.2675	.56489
#1	28480.	14432.	403910.
#2	28390.	14042.	407450.
#3	28682.	13799.	408220.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.60%	103.26%	99.111%
Range			

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Sample Name: QK04017-001DU Acquired: 11/21/2015 16:14:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	117.48	2578.9	960.11	496.06	500.85	10114.	478.9
Stddev	1.20	60.2	3.98	.94	1.45	35.	.7
%RSD	1.0179	2.3357	.41464	.18859	.29033	.34251	.1525
#1	116.15	2549.4	963.58	496.13	499.87	10100.	479.7
#2	118.47	2539.1	955.77	495.09	502.52	10089.	478.3
#3	117.83	2648.2	960.99	496.96	500.17	10153.	478.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	472.60	505.89	476.51	10036.	9976.	6172.	512.30
Stddev	1.22	4.57	4.59	19.	99.	22.	5.22
%RSD	.25766	.90260	.96314	.19177	.9898	.3560	1.0194
#1	473.74	501.71	472.29	10045.	10070.	6159.	507.85
#2	471.32	510.76	481.40	10014.	9877.	6198.	518.05
#3	472.74	505.21	475.83	10049.	9978.	6160.	511.01
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-001DU Acquired: 11/21/2015 16:14:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.70720	10558.	471.92	898.67	956.77	987.68	-.0216
Stddev	.13687	73.	.95	3.95	2.27	1.71	.0691
%RSD	19.353	.69235	.20042	.43911	.23686	.17320	320.0
#1	-.55998	10537.	473.01	903.22	959.19	989.14	.0390
#2	-.73104	10498.	471.36	896.65	956.44	985.80	-.0969
#3	-.83057	10639.	471.38	896.15	954.69	988.11	-.0069
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	957.02	490.12	950.22
Stddev	3.15	5.47	2.02
%RSD	.32898	1.1157	.21241
#1	957.29	485.38	952.26
#2	953.74	496.10	948.22
#3	960.02	488.89	950.17
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-001DU Acquired: 11/21/2015 16:14:13 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MX2171D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28642.	14172.	408610.
Stddev	91.	52.	1818.
%RSD	.31789	.36862	.44489
#1	28702.	14126.	410520.
#2	28687.	14161.	406900.
#3	28538.	14229.	408390.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.04%	103.86%	99.618%
Range			

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Sample Name: QK04017-001MS Acquired: 11/21/2015 16:19:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126.79	4753.2	1033.2	2501.1	557.02	10396.	547.1
Stddev	2.08	74.6	2.3	8.4	12.84	36.	.8
%RSD	1.6371	1.5689	.22273	.33669	2.3044	.35072	.1438
#1	129.18	4721.2	1030.6	2491.4	570.58	10355.	546.3
#2	125.46	4700.0	1034.7	2506.1	545.06	10412.	547.8
#3	125.73	4838.5	1034.5	2505.8	555.42	10422.	547.2
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	976.04	721.23	731.62	11356.	10270.	6331.	1039.8
Stddev	.64	11.52	12.16	38.	54.	81.	17.1
%RSD	.06525	1.5977	1.6618	.33686	.5230	1.283	1.6467
#1	975.77	734.43	745.62	11312.	10240.	6242.	1059.5
#2	976.77	713.20	723.62	11370.	10330.	6348.	1029.5
#3	975.59	716.05	725.64	11385.	10240.	6402.	1030.3
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-001MS Acquired: 11/21/2015 16:19:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.90097	10847.	968.86	947.61	1089.6	1117.4	-.0822
Stddev	.05756	22.	.60	2.00	1.3	1.9	.1666
%RSD	6.3888	.20245	.06237	.21072	.12110	.17231	202.7
#1	-.83527	10827.	968.16	945.59	1089.8	1115.6	-.2719
#2	-.92507	10843.	969.26	949.58	1090.9	1119.4	-.0148
#3	-.94256	10870.	969.14	947.67	1088.3	1117.2	.0402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1038.2	1002.5	1482.8
Stddev	2.7	16.2	.9
%RSD	.26078	1.6146	.06164
#1	1039.5	1021.2	1483.6
#2	1039.9	992.44	1483.0
#3	1035.0	993.98	1481.8
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-001MS Acquired: 11/21/2015 16:19:05 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28744.	14148.	413700.
Stddev	76.	142.	7141.
%RSD	.26341	1.0018	1.7261
#1	28656.	14309.	405450.
#2	28792.	14042.	418010.
#3	28782.	14092.	417630.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.39%	103.68%	100.86%
Range			

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Sample Name: QK04017-001A Acquired: 11/21/2015 16:23:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121.42	3049.3	1009.4	903.57	524.48	20880.	499.2
Stddev	1.09	22.1	1.6	1.62	3.47	22.	.7
%RSD	.89629	.72445	.16006	.17948	.66181	.10321	.1317
#1	120.68	3032.4	1007.5	903.66	522.12	20880.	499.6
#2	120.90	3041.2	1010.4	901.90	522.86	20858.	498.5
#3	122.67	3074.3	1010.1	905.14	528.47	20901.	499.6
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	576.38	533.94	530.40	10404.	20560.	16920.	549.89
Stddev	.66	4.47	3.97	34.	56.	73.	4.94
%RSD	.11442	.83759	.74938	.32331	.2738	.4292	.89905
#1	577.12	528.83	525.84	10366.	20590.	16980.	544.26
#2	575.86	535.80	533.17	10417.	20490.	16840.	551.90
#3	576.16	537.17	532.18	10429.	20580.	16950.	553.52
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK04017-001A Acquired: 11/21/2015 16:23:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.87357	21424.	556.21	924.29	1097.7	1082.2	.1987
Stddev	.23116	10.	.56	1.71	.6	.9	.0517
%RSD	26.461	.04526	.10075	.18475	.05507	.08327	25.99
#1	-1.1402	21413.	556.15	925.79	1097.3	1082.4	.2276
#2	-.75009	21426.	555.68	924.66	1098.4	1083.0	.1391
#3	-.73037	21432.	556.80	922.43	1097.3	1081.3	.2295
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1004.9	602.79	1092.9
Stddev	4.6	5.52	.9
%RSD	.45779	.91578	.08660
#1	1009.7	596.41	1094.0
#2	1004.6	605.90	1092.3
#3	1000.5	606.05	1092.5
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK04017-001A Acquired: 11/21/2015 16:23:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MX2171A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28610.	14256.	409520.
Stddev	57.	187.	3251.
%RSD	.19751	1.3113	.79380
#1	28570.	14087.	413260.
#2	28585.	14223.	407890.
#3	28675.	14457.	407410.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.92%	104.47%	99.841%
Range			

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Sample Name: QK13012-001 Acquired: 11/21/2015 16:28:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.62628	-12.951	2.2858	.39854	.04970	-31.541	-.1924
Stddev	.31606	31.055	1.0208	.40946	.01575	4.576	.0435
%RSD	50.467	239.80	44.658	102.74	31.694	14.508	22.60
#1	.26208	18.310	3.2619	.86029	.03333	-36.530	-.1750
#2	.78792	-13.366	1.2256	.25565	.05102	-30.554	-.1604
#3	.82882	-43.796	2.3697	.07967	.06475	-27.539	-.2419
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.01075	.94002	.13397	58.281	4.974	21.56	1.6130
Stddev	.04497	.13136	.09941	7.483	43.90	18.60	.0368
%RSD	418.38	13.974	74.208	12.840	882.7	86.30	2.2799
#1	.05460	.99086	.20737	66.576	15.66	37.61	1.6321
#2	.01291	1.0384	.02083	56.230	42.55	1.171	1.6362
#3	-.03526	.79084	.17371	52.037	-43.28	25.89	1.5706
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-001 Acquired: 11/21/2015 16:28:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.64156	26.855	1.1702	.75154	1.5581	1.9316	.4377
Stddev	.11019	10.198	.2632	1.2090	1.2419	1.1702	.1011
%RSD	17.175	37.975	22.494	160.87	79.709	60.579	23.09
#1	-.76815	32.482	1.1311	-.42880	1.1261	.90228	.5293
#2	-.58938	15.083	1.4508	.69617	2.9583	3.2043	.3293
#3	-.56716	32.999	.92871	1.9873	.58987	1.6882	.4544
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	2.3927	.17673	5.1891
Stddev	.8847	.43238	.0512
%RSD	36.974	244.65	.98769
#1	1.4236	.65566	5.1472
#2	3.1571	-.18490	5.1739
#3	2.5975	.05944	5.2462
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-001 Acquired: 11/21/2015 16:28:46 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28869.	14195.	411430.
Stddev	66.	127.	5477.
%RSD	.22864	.89150	1.3313
#1	28926.	14143.	417090.
#2	28885.	14340.	406150.
#3	28797.	14104.	411060.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.84%	104.03%	100.31%
Range			

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Sample Name: QK13012-001L(5) Acquired: 11/21/2015 16:33:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763L

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.27539	44.196	-.13871	-.00578	.02900	-1.9810	-.0721
Stddev	.32747	17.164	.83770	.12494	.01495	4.3780	.1657
%RSD	118.91	38.836	603.93	2160.9	51.537	221.00	229.7
#1	.32801	41.367	-.73407	-.08073	.02296	-.58541	.0358
#2	-.07520	62.599	-.50125	.13845	.04602	-6.8867	.0107
#3	.57336	28.623	.81920	-.07507	.01802	1.5291	-.2629
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.02446	.12539	-.14352	15.552	58.03	9.267	.37077
Stddev	.01049	.34159	.25350	5.303	9.71	6.109	.02662
%RSD	42.899	272.41	176.63	34.096	16.72	65.92	7.1808
#1	.01287	-.00176	.10682	16.434	68.19	16.16	.37491
#2	.03332	.51232	-.40007	9.8640	57.04	7.100	.39508
#3	.02718	-.13438	-.13732	20.359	48.86	4.537	.34232
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-001L(5) Acquired: 11/21/2015 16:33:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763L

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.53172	37.882	.18131	-.91312	1.3520	2.8671	.1133
Stddev	.19804	25.108	.07981	1.4398	1.7466	.8039	.1803
%RSD	37.246	66.278	44.019	157.68	129.18	28.041	159.2
#1	-.72326	9.8870	.21311	-2.5497	.91207	2.3544	.2018
#2	-.32776	45.355	.09050	.15890	3.2765	2.4532	-.0942
#3	-.54413	58.406	.24031	-.34859	-.13253	3.7936	.2321
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.01753	-.12014	1.0947
Stddev	.76454	.16016	.0702
%RSD	4360.5	133.31	6.4134
#1	.37096	-.30420	1.1247
#2	.47475	-.01250	1.0145
#3	-.89831	-.04373	1.1450
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-001L(5) Acquired: 11/21/2015 16:33:33 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763L

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28340.	13664.	409180.
Stddev	149.	66.	9225.
%RSD	.52681	.48550	2.2546
#1	28416.	13678.	410260.
#2	28168.	13721.	399470.
#3	28436.	13591.	417820.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	99.969%	100.13%	99.759%
Range			

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Sample Name: QK13012-001DU Acquired: 11/21/2015 16:38:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763D

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.12527	65.744	1.8819	.20715	.03172	-18.425	-.2234
Stddev	.09302	24.652	.6219	.47369	.00863	4.162	.0384
%RSD	74.255	37.496	33.047	228.67	27.198	22.586	17.20
#1	.21014	73.571	2.5998	.73544	.02804	-23.211	-.2234
#2	.02583	85.532	1.5087	-.17972	.04158	-15.659	-.1850
#3	.13984	38.129	1.5371	.06572	.02554	-16.406	-.2619
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.01832	.62440	.75216	35.616	-49.78	-1.942	1.4920
Stddev	.07193	.18962	.55055	.573	27.75	10.02	.0501
%RSD	392.67	30.368	73.195	1.6088	55.74	516.0	3.3568
#1	.05926	.65886	1.0773	35.697	-74.95	9.552	1.4788
#2	-.03143	.79443	.11650	35.006	-54.38	-8.844	1.5473
#3	-.08278	.41992	1.0627	36.144	-20.02	-6.534	1.4498
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-001DU Acquired: 11/21/2015 16:38:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763D

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.45951	11.098	1.1404	1.2608	2.0867	.98908	.2469
Stddev	.16974	11.903	.1666	.4478	1.4488	1.0651	.1496
%RSD	36.941	107.25	14.608	35.517	69.432	107.68	60.58
#1	-.43360	-1.1286	1.3286	1.0509	3.6697	.99602	.2185
#2	-.64071	11.776	1.0118	1.7750	1.7639	2.0507	.4086
#3	-.30420	22.648	1.0809	.95650	.82645	-.07945	.1136
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	1.2678	-.00098	4.9934
Stddev	.9629	.30737	.1865
%RSD	75.956	31305.	3.7343
#1	1.9242	-.34867	5.2084
#2	.16231	.23462	4.8755
#3	1.7168	.11110	4.8963
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-001DU Acquired: 11/21/2015 16:38:22 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: MBC763D

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28847.	14201.	416100.
Stddev	41.	232.	8008.
%RSD	.14071	1.6313	1.9245
#1	28889.	14468.	415820.
#2	28808.	14057.	408240.
#3	28843.	14077.	424250.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	101.76%	104.07%	101.45%
Range			

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Sample Name: QK13012-001MS Acquired: 11/21/2015 16:43:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763S

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52.935	2240.2	41.146	2027.1	50.865	-29.696	48.47
Stddev	1.287	52.8	.439	4.1	.581	2.901	.23
%RSD	2.4305	2.3553	1.0677	.20045	1.1427	9.7704	.4719
#1	54.274	2243.3	40.816	2022.4	51.477	-30.875	48.68
#2	51.707	2291.3	40.977	2029.2	50.321	-31.823	48.51
#3	52.825	2185.9	41.645	2029.7	50.797	-26.391	48.22
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	495.42	207.92	251.68	1103.2	-85.02	-6.247	537.76
Stddev	.07	2.40	2.33	6.8	33.87	23.41	5.86
%RSD	.01348	1.1527	.92579	.61482	39.84	374.7	1.0890
#1	495.46	210.62	254.06	1098.9	-86.62	-28.41	544.32
#2	495.35	206.06	249.40	1111.0	-118.1	-8.559	533.05
#3	495.47	207.06	251.59	1099.7	-50.38	18.23	535.92
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-001MS Acquired: 11/21/2015 16:43:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763S

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.92854	-1.2012	495.83	20.572	101.11	100.94	.2328
Stddev	.08491	1.4890	.23	.708	.59	.92	.0353
%RSD	9.1445	123.96	.04643	3.4395	.57910	.91580	15.15
#1	-.88630	.51737	495.56	21.388	100.49	101.78	.2081
#2	-.87304	-2.0139	495.95	20.201	101.65	99.951	.2732
#3	-1.0263	-2.1070	495.97	20.127	101.19	101.08	.2171
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	52.362	498.12	505.59
Stddev	.460	5.71	.11
%RSD	.87928	1.1461	.02196
#1	51.892	504.13	505.47
#2	52.813	492.77	505.62
#3	52.380	497.46	505.68
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-001MS Acquired: 11/21/2015 16:43:08 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763S

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	29220.	14280.	417000.
Stddev	21.	46.	4057.
%RSD	.07025	.32418	.97290
#1	29243.	14318.	412670.
#2	29202.	14228.	417610.
#3	29216.	14294.	420720.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	103.08%	104.65%	101.66%
Range			

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Sample Name: QK13012-001A Acquired: 11/21/2015 16:47:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763A

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.275	471.01	21.193	387.46	10.063	10257.	9.145
Stddev	.754	40.18	.910	1.76	.097	63.	.023
%RSD	3.7206	8.5314	4.2961	.45503	.96056	.61668	.2466
#1	19.851	448.89	20.436	385.52	9.9519	10191.	9.133
#2	21.146	446.75	22.204	387.91	10.108	10317.	9.171
#3	19.827	517.40	20.941	388.96	10.129	10262.	9.131
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.033	21.281	48.067	240.04	10270.	10350.	32.193
Stddev	.154	.402	.484	7.21	49.	100.	.345
%RSD	.16219	1.8879	1.0078	3.0032	.4760	.9636	1.0725
#1	94.895	20.828	47.516	232.21	10220.	10240.	31.794
#2	95.199	21.418	48.429	246.39	10260.	10430.	32.382
#3	95.003	21.596	48.254	241.52	10320.	10380.	32.402
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: QK13012-001A Acquired: 11/21/2015 16:47:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763A

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.55158	10733.	77.000	19.109	117.63	71.701	.5166
Stddev	.24902	49.	.197	.303	2.70	1.179	.0655
%RSD	45.147	.45635	.25640	1.5850	2.2951	1.6445	12.67
#1	-.46440	10689.	76.779	18.763	115.36	70.410	.5877
#2	-.35787	10726.	77.060	19.236	116.92	71.970	.4589
#3	-.83247	10786.	77.160	19.328	120.62	72.722	.5030
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	49.169	98.616	122.23
Stddev	.634	.742	.10
%RSD	1.2895	.75235	.08138
#1	49.619	97.761	122.31
#2	49.443	98.998	122.12
#3	48.444	99.089	122.26
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

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Sample Name: QK13012-001A Acquired: 11/21/2015 16:47:56 Type: Unk
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: ISM02.2 A PR Custom ID2: Custom ID3:
Comment: MBC763A

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28426.	13998.	405530.
Stddev	59.	111.	6558.
%RSD	.20775	.79452	1.6171
#1	28416.	13958.	412990.
#2	28372.	14123.	400680.
#3	28489.	13911.	402910.
Check ?	Chk Pass	Chk Pass	Chk Pass
Value	100.27%	102.58%	98.868%
Range			

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Sample Name: CCV008 Acquired: 11/21/2015 16:52:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV008

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	738.96	50713.	2485.7	9999.2	1005.3	51579.	983.2
Stddev	10.21	188.	5.1	411.3	13.4	75.	1.1
%RSD	1.3812	.37025	.20667	4.1129	1.3332	.14538	.1119
#1	731.58	50516.	2482.7	9537.4	1005.4	51493.	982.7
#2	734.69	50891.	2491.6	10326.	991.88	51627.	982.5
#3	750.61	50733.	2482.8	10134.	1018.7	51618.	984.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4809.2	9987.7	11924.	25502.	38340.	51370.	4906.2
Stddev	3.8	144.7	234.	5.	275.	92.	81.3
%RSD	.07798	1.4490	1.9652	.01959	.7167	.1787	1.6578
#1	4805.5	9885.5	11987.	25506.	38040.	51290.	4841.4
#2	4809.3	9924.2	11665.	25496.	38580.	51340.	4879.7
#3	4813.0	10153.	12120.	25504.	38400.	51470.	4997.5
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

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Sample Name: CCV008 Acquired: 11/21/2015 16:52:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV008

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	980.52	26367.	4774.9	9401.1	2446.9	1237.7	988.4
Stddev	1.41	76.	1.9	9.5	1.3	2.0	14.3
%RSD	.14335	.28640	.03940	.10096	.05228	.16168	1.448
#1	979.74	26295.	4772.8	9390.2	2447.6	1237.9	978.5
#2	979.67	26446.	4775.7	9405.7	2445.4	1235.6	981.9
#3	982.14	26362.	4776.3	9407.5	2447.7	1239.5	1005.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value							
Range							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	924.93	2479.4	4952.8
Stddev	3.17	36.6	4.0
%RSD	.34273	1.4757	.08065
#1	921.43	2453.8	4949.1
#2	927.59	2463.0	4957.0
#3	925.78	2521.3	4952.3
Check ?	Chk Pass	Chk Pass	Chk Pass
Value			
Range			

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Sample Name: CCV008 Acquired: 11/21/2015 16:52:43 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCV008

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	26497.	13637.	391780.
Stddev	9.	301.	4977.
%RSD	.03381	2.2052	1.2704
#1	26507.	13981.	392370.
#2	26489.	13423.	396440.
#3	26496.	13507.	386540.

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Sample Name: CCB008 Acquired: 11/21/2015 16:57:57 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB008

Elem	Ag3280	Al3082	As1890	Ba4554	Be3130	Ca2179	Cd2288
IS Ref	(Y_3710-2)	(Y_3710)	(Y_2243)	(Y_3710)	(Y_3710-2)	(Y_3710)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.25311	36.013	.22104	-.19056	.02473	-9.9427	-.1196
Stddev	.20765	31.420	.50284	.54072	.00418	2.5697	.0283
%RSD	82.041	87.246	227.49	283.75	16.907	25.845	23.70
#1	.36140	68.848	.48689	-.14057	.02377	-12.831	-.1489
#2	.38424	6.2301	.53515	-.75455	.02112	-9.0867	-.0923
#3	.01369	32.962	-.35893	.32343	.02932	-7.9103	-.1177
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Co2286	Cr2677	Cu3273	Fe2611	K_7664	Mg2790	Mn2576
IS Ref	(Y_2243)	(Y_3710-2)	(Y_3710-2)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.09040	.08846	.70640	11.861	86.50	20.89	.05889
Stddev	.09616	.31198	.52547	.763	33.36	20.90	.04215
%RSD	106.38	352.67	74.387	6.4316	38.57	100.1	71.567
#1	.18522	.23685	1.1434	12.732	63.83	16.58	.01087
#2	.09303	.29856	.12336	11.538	70.86	43.61	.07605
#3	-.00706	-.27002	.85245	11.312	124.8	2.482	.08975
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

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Sample Name: CCB008 Acquired: 11/21/2015 16:57:57 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB008

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Ti3372
IS Ref	(Y_2243)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710-2)
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.13046	17.901	.15960	-.56311	.07534	.36022	-.0104
Stddev	.04854	19.190	.01494	.89467	1.6581	1.7154	.1736
%RSD	37.210	107.20	9.3634	158.88	2200.9	476.20	1666.
#1	.16286	18.011	.14339	.26232	-1.3487	-.82922	.0627
#2	.15388	37.036	.17283	-1.5138	1.8957	-.41671	-.2086
#3	.07465	-1.3442	.16257	-.43784	-.32096	2.3266	.1146
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit							
Low Limit							

Elem	Tl1908	V_2924	Zn2062
IS Ref	(Y_2243)	(Y_3710-2)	(Y_2243)
Units	ppb	ppb	ppb
Avg	-.29869	.09040	-.00011
Stddev	.69172	.15873	.02002
%RSD	231.58	175.58	18709.
#1	-.66398	.24370	.02186
#2	.49909	.10075	-.00486
#3	-.73119	-.07325	-.01732
Check ?	Chk Pass	Chk Pass	Chk Pass
High Limit			
Low Limit			

PDF created with pdfFactory trial version www.pdffactory.com

Sample Name: CCB008 Acquired: 11/21/2015 16:57:57 Type: QC
Method: CLP ISM Method ICP5 A(v19) Mode: CONC Corr. Factor: 1.000000
User: NCM Custom ID1: Custom ID2: Custom ID3:
Comment: CCB008

Int. Std.	Y_2243	Y_3710	Y_3710-2
Units	Cts/S	Cts/S	Cts/S
Avg	28338.	13935.	409770.
Stddev	138.	74.	10352.
%RSD	.48581	.52906	2.5263
#1	28497.	13856.	412820.
#2	28257.	14002.	398240.
#3	28261.	13947.	418260.

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ICP-AES
Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***I5111615A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1·	Sample ID:	S0	EPA Sample ID:	S0		Date:	11/16/2015	11:31:11	Dilution:	1
2·	Sample ID:	S01 ISM-520	EPA Sample ID:	S01		Date:	11/16/2015	11:35:58	Dilution:	1
3·	Sample ID:	S02 ISM-521	EPA Sample ID:	S02		Date:	11/16/2015	11:40:43	Dilution:	1
4·	Sample ID:	S03 ISM-538	EPA Sample ID:	S03		Date:	11/16/2015	11:45:28	Dilution:	1
5·	Sample ID:	S04 ISM-523	EPA Sample ID:	S04		Date:	11/16/2015	11:50:42	Dilution:	1
6·	Sample ID:	S05 ISM-524	EPA Sample ID:	S05		Date:	11/16/2015	11:56:06	Dilution:	1
7·	Sample ID:	S06 ISM-463	EPA Sample ID:	S06		Date:	11/16/2015	12:01:37	Dilution:	1
8·	Sample ID:	S07 ISM-464	EPA Sample ID:	S07		Date:	11/16/2015	12:06:20	Dilution:	1
9·	Sample ID:	S08 ISM-465	EPA Sample ID:	S08		Date:	11/16/2015	12:11:03	Dilution:	1
10·	Sample ID:	S09 ISM-456	EPA Sample ID:	S09		Date:	11/16/2015	12:15:47	Dilution:	1
11·	Sample ID:	S10 ISM-457	EPA Sample ID:	S10		Date:	11/16/2015	12:20:36	Dilution:	1
12·	Sample ID:	ICV1	EPA Sample ID:	ICV001		Date:	11/16/2015	12:25:28	Dilution:	1
13·	Sample ID:	ICB1	EPA Sample ID:	ICB001		Date:	11/16/2015	12:30:19	Dilution:	1
14·	Sample ID:	ICS-A1	EPA Sample ID:	ICSA001		Date:	11/16/2015	12:35:07	Dilution:	1
15·	Sample ID:	ICS-AB1	EPA Sample ID:	ICSAB001		Date:	11/16/2015	12:39:51	Dilution:	1
16·	Sample ID:	CCV1	EPA Sample ID:	CCV001		Date:	11/16/2015	12:44:40	Dilution:	1
17·	Sample ID:	CCB1	EPA Sample ID:	CCB001		Date:	11/16/2015	12:49:54	Dilution:	1
18·	Sample ID:	QQ89300-001	EPA Sample ID:	QQ89300-001		Date:	11/16/2015	12:54:42	Dilution:	1
19·	Sample ID:	QQ89300-002	EPA Sample ID:	QQ89300-002		Date:	11/16/2015	12:59:30	Dilution:	1
20·	Sample ID:	QJ23009-001	EPA Sample ID:	ME5LL6		Date:	11/16/2015	13:04:16	Dilution:	1
21·	Sample ID:	QJ23009-002	EPA Sample ID:	ME5LL7		Date:	11/16/2015	13:09:03	Dilution:	1
22·	Sample ID:	QJ23009-003	EPA Sample ID:	ME5LN6		Date:	11/16/2015	13:13:47	Dilution:	1
23·	Sample ID:	QJ23009-004	EPA Sample ID:	ME5LN7		Date:	11/16/2015	13:18:33	Dilution:	1
24·	Sample ID:	QJ23009-005	EPA Sample ID:	ME5LN8		Date:	11/16/2015	13:23:20	Dilution:	1
25·	Sample ID:	QJ23009-006	EPA Sample ID:	ME5LN9		Date:	11/16/2015	13:28:07	Dilution:	1
26·	Sample ID:	QJ23009-007	EPA Sample ID:	ME5LR9		Date:	11/16/2015	13:32:53	Dilution:	1
27·	Sample ID:	QJ23009-008	EPA Sample ID:	ME5LS0		Date:	11/16/2015	13:37:40	Dilution:	1
28·	Sample ID:	QJ23009-008L	EPA Sample ID:	ME5LS0L		Date:	11/16/2015	13:42:28	Dilution:	5
29·	Sample ID:	QJ23009-008DU	EPA Sample ID:	ME5LS0D		Date:	11/16/2015	13:47:15	Dilution:	1

Analytical Review Report

Data File: ***I5111615A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
30· Sample ID:	**QJ23009-008MS**	**EPA Sample ID:**	**ME5LS0S**		**Date:**	**11/16/2015**	**13:52:02**	**Dilution: 1**
Ag3280	RECOVERY IS OUT OF CRITERIA	94.1390	1500	50.0	188.0	2.00	1.60	10.00
Al3082	RECOVERY IS OUT OF CRITERIA	694.3900	300000	2000.0	-11.0	13.00	95.20	200.00
As1890	RECOVERY IS OUT OF CRITERIA	72.7860	5000	40.0	182.0	1.00	3.90	10.00
Ba4554	RECOVERY IS OUT OF CRITERIA	4063.7000	20000	2000.0	175.0	0.00	19.10	200.00
Be3130	RECOVERY IS OUT OF CRITERIA	98.1550	2000	50.0	196.0	2.00	0.05	5.00
Cd2288	RECOVERY IS OUT OF CRITERIA	85.0900	2000	50.0	168.0	1.00	0.60	5.00
Co2286	RECOVERY IS OUT OF CRITERIA	879.8400	10000	500.0	176.0	1.00	0.25	50.00
Cr2677	RECOVERY IS OUT OF CRITERIA	387.1500	20000	200.0	189.0	2.00	1.80	10.00
Cu3273	RECOVERY IS OUT OF CRITERIA	508.1200	25000	250.0	189.0	2.00	5.00	25.00
Fe2611	RECOVERY IS OUT OF CRITERIA	4232.0000	150000	1000.0	63.0	1.00	18.80	100.00
Mn2576	RECOVERY IS OUT OF CRITERIA	2087.7000	10000	500.0	180.0	3.00	0.43	15.00
Ni2316	RECOVERY IS OUT OF CRITERIA	880.9900	10000	500.0	175.0	1.00	1.10	40.00
Sb2068	RECOVERY IS OUT OF CRITERIA	151.1100	5000	100.0	151.0	0.00	7.80	60.00
Se1960	RECOVERY IS OUT OF CRITERIA	173.6000	2500	100.0	174.0	0.00	5.50	35.00
Tl1908	RECOVERY IS OUT OF CRITERIA	93.4660	2000	50.0	187.0	1.00	3.80	25.00
V_2924	RECOVERY IS OUT OF CRITERIA	929.8400	5000	500.0	185.0	2.00	1.10	50.00
Zn2062	RECOVERY IS OUT OF CRITERIA	1001.1000	10000	500.0	146.0	1.00	6.60	60.00
31· Sample ID:	**QJ23009-008A**	**EPA Sample ID:**	**ME5LS0A**		**Date:**	**11/16/2015**	**13:56:57**	**Dilution: 1**
32· Sample ID:	**QJ23009-009**	**EPA Sample ID:**	**ME5LS1**		**Date:**	**11/16/2015**	**14:01:43**	**Dilution: 1**
33· Sample ID:	**QJ23011-001**	**EPA Sample ID:**	**MBC2W8**		**Date:**	**11/16/2015**	**14:06:31**	**Dilution: 1**
34· Sample ID:	**QJ23011-001L**	**EPA Sample ID:**	**MBC2W8L**		**Date:**	**11/16/2015**	**14:11:14**	**Dilution: 5**
35· Sample ID:	**QJ23011-001DU**	**EPA Sample ID:**	**MBC2W8D**		**Date:**	**11/16/2015**	**14:15:59**	**Dilution: 1**
36· Sample ID:	**QJ23011-001MS**	**EPA Sample ID:**	**MBC2W8S**		**Date:**	**11/16/2015**	**14:20:44**	**Dilution: 1**
Mn2576	RECOVERY IS OUT OF CRITERIA	944.1300	10000	500.0	133.0	2.00	0.43	15.00
Sb2068	RECOVERY IS OUT OF CRITERIA	67.3510	5000	100.0	67.0	2.00	7.80	60.00
37· Sample ID:	**QJ23011-001A**	**EPA Sample ID:**	**MBC2W8A**		**Date:**	**11/16/2015**	**14:25:29**	**Dilution: 1**
38· Sample ID:	**QJ23011-002**	**EPA Sample ID:**	**MBC2X0**		**Date:**	**11/16/2015**	**14:30:15**	**Dilution: 1**
Cd2288		0.9997	2000			18.00	0.60	5.00
Cu3273		80.4810	25000			2.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	334110.0000	150000			0.00	18.80	100.00
Pb2203		672.3100	20000			0.00	3.50	10.00
39· Sample ID:	**CCV2**	**EPA Sample ID:**	**CCV002**		**Date:**	**11/16/2015**	**14:35:00**	**Dilution: 1**
40· Sample ID:	**CCB2**	**EPA Sample ID:**	**CCB002**		**Date:**	**11/16/2015**	**14:40:16**	**Dilution: 1**
41· Sample ID:	**QQ89608-001**	**EPA Sample ID:**	**QQ89608-001**		**Date:**	**11/16/2015**	**14:45:05**	**Dilution: 1**
42· Sample ID:	**QQ89608-002**	**EPA Sample ID:**	**QQ89608-002**		**Date:**	**11/16/2015**	**14:49:54**	**Dilution: 1**
43· Sample ID:	**QK06046-001**	**EPA Sample ID:**	**ME5LR2**		**Date:**	**11/16/2015**	**14:54:41**	**Dilution: 1**
44· Sample ID:	**QK06046-001L**	**EPA Sample ID:**	**ME5LR2L**		**Date:**	**11/16/2015**	**14:59:27**	**Dilution: 5**
45· Sample ID:	**QK06046-001DU**	**EPA Sample ID:**	**ME5LR2D**		**Date:**	**11/16/2015**	**15:04:15**	**Dilution: 1**
46· Sample ID:	**QK06046-001MS**	**EPA Sample ID:**	**ME5LR2S**		**Date:**	**11/16/2015**	**15:09:02**	**Dilution: 1**
47· Sample ID:	**QK06046-001A**	**EPA Sample ID:**	**ME5LR2A**		**Date:**	**11/16/2015**	**15:13:48**	**Dilution: 1**
48· Sample ID:	**QK06046-002**	**EPA Sample ID:**	**ME5LR3**		**Date:**	**11/16/2015**	**15:18:35**	**Dilution: 1**
49· Sample ID:	**QK06046-003**	**EPA Sample ID:**	**ME5LR4**		**Date:**	**11/16/2015**	**15:23:23**	**Dilution: 1**
50· Sample ID:	**QK06046-004**	**EPA Sample ID:**	**ME5LR5**		**Date:**	**11/16/2015**	**15:28:11**	**Dilution: 1**
51· Sample ID:	**QK06046-005**	**EPA Sample ID:**	**ME5LR6**		**Date:**	**11/16/2015**	**15:32:58**	**Dilution: 1**
52· Sample ID:	**QK06046-006**	**EPA Sample ID:**	**ME5LR7**		**Date:**	**11/16/2015**	**15:37:45**	**Dilution: 1**
53· Sample ID:	**QJ23011-002**	**EPA Sample ID:**	**MBC2X0**		**Date:**	**11/16/2015**	**15:42:34**	**Dilution: 5**

Analytical Review Report

Data File: I5111615A ISM

Analyst: NCM

ICP5

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
54	Sample ID:	QQ89520-001	EPA Sample ID:	PBW001		Date:	11/16/2015	15:47:21	Dilution:	1
55	Sample ID:	QQ89520-002	EPA Sample ID:	LCS001		Date:	11/16/2015	15:52:09	Dilution:	1
56	Sample ID:	QJ30009-004	EPA Sample ID:	MBC2W9		Date:	11/16/2015	15:56:55	Dilution:	1
57	Sample ID:	QJ30009-004L	EPA Sample ID:	MBC2W9L		Date:	11/16/2015	16:01:42	Dilution:	5
58	Sample ID:	QJ30009-004DU	EPA Sample ID:	MBC2W9D		Date:	11/16/2015	16:06:29	Dilution:	1
59	Sample ID:	QJ30009-004MS	EPA Sample ID:	MBC2W9S		Date:	11/16/2015	16:11:15	Dilution:	1
60	Sample ID:	QJ30009-004A	EPA Sample ID:	MBC2W9A		Date:	11/16/2015	16:16:03	Dilution:	1
61	Sample ID:	CCV3	EPA Sample ID:	CCV003		Date:	11/16/2015	16:20:49	Dilution:	1
62	Sample ID:	CCB3	EPA Sample ID:	CCB003		Date:	11/16/2015	16:26:01	Dilution:	1
63	Sample ID:	QJ30009-005	EPA Sample ID:	MBC2X5		Date:	11/16/2015	16:30:50	Dilution:	1
64	Sample ID:	QJ30009-006	EPA Sample ID:	MBC2X6		Date:	11/16/2015	16:35:38	Dilution:	1
65	Sample ID:	QJ30016-001	EPA Sample ID:	MC0KP5		Date:	11/16/2015	16:40:26	Dilution:	1
66	Sample ID:	QJ30016-001L	EPA Sample ID:	MC0KP5L		Date:	11/16/2015	16:45:15	Dilution:	5
67	Sample ID:	QJ30016-001DU	EPA Sample ID:	MC0KP5D		Date:	11/16/2015	16:50:03	Dilution:	1
68	Sample ID:	QJ30016-001MS	EPA Sample ID:	MC0KP5S		Date:	11/16/2015	16:54:52	Dilution:	1
69	Sample ID:	QJ30016-001A	EPA Sample ID:	MC0KP5A		Date:	11/16/2015	16:59:39	Dilution:	1
70	Sample ID:	QJ30016-002	EPA Sample ID:	MC0KQ8		Date:	11/16/2015	17:04:27	Dilution:	1
71	Sample ID:	QK12004-001	EPA Sample ID:	MBC7F4		Date:	11/16/2015	17:09:15	Dilution:	1
72	Sample ID:	QK12004-002	EPA Sample ID:	MBC7F5		Date:	11/16/2015	17:14:04	Dilution:	1
73	Sample ID:	QK12004-002L	EPA Sample ID:	MBC7F5L		Date:	11/16/2015	17:18:52	Dilution:	5
74	Sample ID:	QK12004-002DU	EPA Sample ID:	MBC7F5D		Date:	11/16/2015	17:23:39	Dilution:	1
75	Sample ID:	QK12004-002MS	EPA Sample ID:	MBC7F5S		Date:	11/16/2015	17:28:27	Dilution:	1
76	Sample ID:	QK12004-002A	EPA Sample ID:	MBC7F5A		Date:	11/16/2015	17:33:14	Dilution:	1
77	Sample ID:	QK12004-003	EPA Sample ID:	MBC7F6		Date:	11/16/2015	17:38:01	Dilution:	1
78	Sample ID:	QK12004-004	EPA Sample ID:	MBC7F7		Date:	11/16/2015	17:42:50	Dilution:	1
79	Sample ID:	QK12004-005	EPA Sample ID:	MBC7F8		Date:	11/16/2015	17:47:38	Dilution:	1
80	Sample ID:	QK12004-006	EPA Sample ID:	MBC7F9		Date:	11/16/2015	17:52:26	Dilution:	1
81	Sample ID:	QK12004-007	EPA Sample ID:	MBC7G0		Date:	11/16/2015	17:57:13	Dilution:	1
82	Sample ID:	QK12004-008	EPA Sample ID:	MBC7G1		Date:	11/16/2015	18:02:00	Dilution:	1
83	Sample ID:	QK12004-009	EPA Sample ID:	MBC7G2		Date:	11/16/2015	18:06:48	Dilution:	1
84	Sample ID:	CCV4	EPA Sample ID:	CCV004		Date:	11/16/2015	18:11:35	Dilution:	1
85	Sample ID:	CCB4	EPA Sample ID:	CCB004		Date:	11/16/2015	18:16:51	Dilution:	1
86	Sample ID:	QK03007-011	EPA Sample ID:	MJHBR3		Date:	11/16/2015	18:21:40	Dilution:	1
87	Sample ID:	QK03007-012	EPA Sample ID:	MJHBW1		Date:	11/16/2015	18:26:30	Dilution:	1
88	Sample ID:	QK03004-001	EPA Sample ID:	MJHBQ9		Date:	11/16/2015	18:31:19	Dilution:	5
89	Sample ID:	QK03004-002	EPA Sample ID:	MJHBR0		Date:	11/16/2015	18:36:11	Dilution:	5
90	Sample ID:	QK03004-003	EPA Sample ID:	MJHBR1		Date:	11/16/2015	18:40:56	Dilution:	5
91	Sample ID:	QK03004-004	EPA Sample ID:	MJHBR2		Date:	11/16/2015	18:45:41	Dilution:	5
92	Sample ID:	QK03004-005	EPA Sample ID:	MJHBR4		Date:	11/16/2015	18:50:26	Dilution:	5
93	Sample ID:	QK03004-006	EPA Sample ID:	MJHBR5		Date:	11/16/2015	18:55:16	Dilution:	5
94	Sample ID:	QK03004-007	EPA Sample ID:	MJHBR6		Date:	11/16/2015	19:00:02	Dilution:	5
95	Sample ID:	QK03004-008	EPA Sample ID:	MJHBR7		Date:	11/16/2015	19:04:48	Dilution:	5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
96·	**Sample ID: QK03004-009 EPA Sample ID: MJHBR8**			**Date: 11/16/2015**		**19:09:34**	**Dilution:**	**5**
97·	**Sample ID: QK03004-009L EPA Sample ID: MJHBR8L**			**Date: 11/16/2015**		**19:14:29**	**Dilution:**	**5**
98·	**Sample ID: QK03004-009DU EPA Sample ID: MJHBR8D**			**Date: 11/16/2015**		**19:19:17**	**Dilution:**	**5**
99·	**Sample ID: QK03004-009MS EPA Sample ID: MJHBR8S**			**Date: 11/16/2015**		**19:24:13**	**Dilution:**	**5**
Ag3280	RECOVERY IS OUT OF CRITERIA	18.9410	1500	50.0	189.0	2.00	1.60	10.00
As1890	RECOVERY IS OUT OF CRITERIA	27.6750	5000	40.0	156.0	5.00	3.90	10.00
Ba4554	RECOVERY IS OUT OF CRITERIA	1109.3000	20000	2000.0	189.0	6.00	19.10	200.00
Be3130	RECOVERY IS OUT OF CRITERIA	20.3790	2000	50.0	204.0	2.00	0.05	5.00
Cd2288	RECOVERY IS OUT OF CRITERIA	18.4000	2000	50.0	184.0	0.00	0.60	5.00
Co2286	RECOVERY IS OUT OF CRITERIA	291.7100	10000	500.0	176.0	0.00	0.25	50.00
Cu3273	RECOVERY IS OUT OF CRITERIA	188.3000	25000	250.0	180.0	1.00	5.00	25.00
Pb2203	RECOVERY IS OUT OF CRITERIA	15.9130	20000	20.0	166.0	9.00	3.50	10.00
Sb2068	RECOVERY IS OUT OF CRITERIA	6.4404	5000	100.0	0.0	31.00	7.80	60.00
Se1960	RECOVERY IS OUT OF CRITERIA	38.1790	2500	100.0	191.0	2.00	5.50	35.00
Tl1908	RECOVERY IS OUT OF CRITERIA	19.1400	2000	50.0	191.0	5.00	3.80	25.00
V_2924	RECOVERY IS OUT OF CRITERIA	356.3200	5000	500.0	172.0	2.00	1.10	50.00
Zn2062	RECOVERY IS OUT OF CRITERIA	343.6500	10000	500.0	177.0	0.00	6.60	60.00
100·	**Sample ID: QK03004-009A EPA Sample ID: MJHBR8A**			**Date: 11/16/2015**		**19:29:07**	**Dilution:**	**5**
101·	**Sample ID: QK03004-010 EPA Sample ID: MJHBT1**			**Date: 11/16/2015**		**19:34:08**	**Dilution:**	**5**
102·	**Sample ID: QK03004-011 EPA Sample ID: MJHBT2**			**Date: 11/16/2015**		**19:38:55**	**Dilution:**	**5**
103·	**Sample ID: QK03004-012 EPA Sample ID: MJHBT3**			**Date: 11/16/2015**		**19:43:49**	**Dilution:**	**5**
104·	**Sample ID: QK03004-013 EPA Sample ID: MJHBT4**			**Date: 11/16/2015**		**19:48:36**	**Dilution:**	**5**
105·	**Sample ID: QK03004-014 EPA Sample ID: MJHBT5**			**Date: 11/16/2015**		**19:53:21**	**Dilution:**	**2**
106·	**Sample ID: CCV5 EPA Sample ID: CCV005**			**Date: 11/16/2015**		**19:58:25**	**Dilution:**	**1**
107·	**Sample ID: CCB5 EPA Sample ID: CCB005**			**Date: 11/16/2015**		**20:03:38**	**Dilution:**	**1**
108·	**Sample ID: QK03004-015 EPA Sample ID: MJHBT7**			**Date: 11/16/2015**		**20:08:27**	**Dilution:**	**1**
Cd2288		0.7102	2000			22.00	0.60	5.00
Cu3273		210.1500	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	156110.0000	150000			0.00	18.80	100.00
Ni2316		635.5400	10000			0.00	1.10	40.00
Pb2203		17.2900	20000			4.00	3.50	10.00
109·	**Sample ID: QK03004-015 EPA Sample ID: MJHBT7**			**Date: 11/16/2015**		**20:13:29**	**Dilution:**	**2**
110·	**Sample ID: QK03004-016 EPA Sample ID: MJHBT8**			**Date: 11/16/2015**		**20:18:23**	**Dilution:**	**1**
Cd2288		0.9112	2000			11.00	0.60	5.00
Cu3273		194.2300	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	212650.0000	150000			0.00	18.80	100.00
Ni2316		696.7000	10000			0.00	1.10	40.00
Pb2203		22.4280	20000			4.00	3.50	10.00
111·	**Sample ID: QK03004-016 EPA Sample ID: MJHBT8**			**Date: 11/16/2015**		**20:23:25**	**Dilution:**	**2**
112·	**Sample ID: QK03004-017 EPA Sample ID: MJHBT9**			**Date: 11/16/2015**		**20:28:27**	**Dilution:**	**1**
Cd2288		0.6520	2000			23.00	0.60	5.00
Cu3273		143.6100	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	162440.0000	150000			0.00	18.80	100.00
Ni2316		1012.5000	10000			0.00	1.10	40.00
Pb2203		13.9850	20000			16.00	3.50	10.00
113·	**Sample ID: QK03004-017 EPA Sample ID: MJHBT9**			**Date: 11/16/2015**		**20:33:29**	**Dilution:**	**2**

Analytical Review Report

Data File: ***I5111615A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message	Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
114· Sample ID:	**QK03004-018**	**EPA Sample ID:**	**MJHBW0**		**Date:**	**11/16/2015**	**20:38:24**	**Dilution: 1**
Cd2288		1.0920	2000			13.00	0.60	5.00
Cu3273		218.8000	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	182850.0000	150000			1.00	18.80	100.00
Ni2316		744.6900	10000			1.00	1.10	40.00
Pb2203		18.7020	20000			5.00	3.50	10.00
115· Sample ID:	**QK03004-018**	**EPA Sample ID:**	**MJHBW0**		**Date:**	**11/16/2015**	**20:43:26**	**Dilution: 2**
116· Sample ID:	**QK03004-019**	**EPA Sample ID:**	**MJHBQ4**		**Date:**	**11/16/2015**	**20:48:29**	**Dilution: 1**
Cd2288		0.9597	2000			12.00	0.60	5.00
Cu3273		264.4000	25000			1.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	214260.0000	150000			0.00	18.80	100.00
Ni2316		647.8000	10000			3.00	1.10	40.00
Pb2203		19.3640	20000			15.00	3.50	10.00
117· Sample ID:	**QK03004-019**	**EPA Sample ID:**	**MJHBQ4**		**Date:**	**11/16/2015**	**20:53:32**	**Dilution: 2**
118· Sample ID:	**QK03004-020**	**EPA Sample ID:**	**MJHBR9**		**Date:**	**11/16/2015**	**20:58:28**	**Dilution: 1**
Cd2288		0.7949	2000			12.00	0.60	5.00
Cu3273		209.9200	25000			2.00	5.00	25.00
Fe2611	PARAMETER IS OVER RANGE	334120.0000	150000			0.00	18.80	100.00
Mg2790	PARAMETER IS OVER RANGE	518500.0000	300000			0.00	50.90	5000.00
Ni2316		7673.7998	10000			0.00	1.10	40.00
Pb2203		20.3160	20000			5.00	3.50	10.00
119· Sample ID:	**QK03004-020**	**EPA Sample ID:**	**MJHBR9**		**Date:**	**11/16/2015**	**21:03:30**	**Dilution: 5**
120· Sample ID:	**QQ89520-002**	**EPA Sample ID:**	**LCS001**		**Date:**	**11/16/2015**	**21:08:17**	**Dilution: 1**
121· Sample ID:	**CCV6**	**EPA Sample ID:**	**CCV006**		**Date:**	**11/16/2015**	**21:13:04**	**Dilution: 1**
122· Sample ID:	**CCB6**	**EPA Sample ID:**	**CCB006**		**Date:**	**11/16/2015**	**21:18:17**	**Dilution: 1**

Analytical Review Report

Data File: ***I5112115A ISM***

Analyst: ***NCM***

ICP5

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
123· Sample ID:	S0	EPA Sample ID:	S0			Date:	11/21/2015	13:48:17	Dilution:	1
124· Sample ID:	S01 ISM-520	EPA Sample ID:	S01			Date:	11/21/2015	13:53:04	Dilution:	1
125· Sample ID:	S02 ISM-521	EPA Sample ID:	S02			Date:	11/21/2015	13:57:49	Dilution:	1
126· Sample ID:	S03 ISM-538	EPA Sample ID:	S03			Date:	11/21/2015	14:02:35	Dilution:	1
127· Sample ID:	S04 ISM-523	EPA Sample ID:	S04			Date:	11/21/2015	14:07:48	Dilution:	1
128· Sample ID:	S05 ISM-524	EPA Sample ID:	S05			Date:	11/21/2015	14:13:14	Dilution:	1
129· Sample ID:	S06 ISM-463	EPA Sample ID:	S06			Date:	11/21/2015	14:18:46	Dilution:	1
130· Sample ID:	S07 ISM-464	EPA Sample ID:	S07			Date:	11/21/2015	14:23:30	Dilution:	1
131· Sample ID:	S08 ISM-465	EPA Sample ID:	S08			Date:	11/21/2015	14:28:19	Dilution:	1
132· Sample ID:	S09 ISM-456	EPA Sample ID:	S09			Date:	11/21/2015	14:33:01	Dilution:	1
133· Sample ID:	S10 ISM-457	EPA Sample ID:	S10			Date:	11/21/2015	14:37:48	Dilution:	1
134· Sample ID:	ICV2	EPA Sample ID:	ICV002			Date:	11/21/2015	14:42:40	Dilution:	1
135· Sample ID:	ICB2	EPA Sample ID:	ICB002			Date:	11/21/2015	14:47:31	Dilution:	1
136· Sample ID:	ICS-A2	EPA Sample ID:	ICSA002			Date:	11/21/2015	14:52:18	Dilution:	1
137· Sample ID:	ICS-AB2	EPA Sample ID:	ICSAB002			Date:	11/21/2015	14:57:09	Dilution:	1
138· Sample ID:	CCV7	EPA Sample ID:	CCV007			Date:	11/21/2015	15:02:07	Dilution:	1
139· Sample ID:	CCB7	EPA Sample ID:	CCB007			Date:	11/21/2015	15:07:21	Dilution:	1
140· Sample ID:	QQ89995-001	EPA Sample ID:	PBW002			Date:	11/21/2015	15:12:08	Dilution:	1
141· Sample ID:	QQ89995-002	EPA Sample ID:	LCS002			Date:	11/21/2015	15:16:55	Dilution:	1
142· Sample ID:	QK12004-010	EPA Sample ID:	MBC7G3			Date:	11/21/2015	15:21:40	Dilution:	1
143· Sample ID:	QK12004-010L	EPA Sample ID:	MBC7G3L			Date:	11/21/2015	15:26:26	Dilution:	5
144· Sample ID:	QK12004-010DU	EPA Sample ID:	MBC7G3D			Date:	11/21/2015	15:31:12	Dilution:	1
145· Sample ID:	QK12004-010MS	EPA Sample ID:	MBC7G3S			Date:	11/21/2015	15:35:57	Dilution:	1
146· Sample ID:	QK12004-010A	EPA Sample ID:	MBC7G3A			Date:	11/21/2015	15:40:44	Dilution:	1
147· Sample ID:	QK12004-011	EPA Sample ID:	MBC7G4			Date:	11/21/2015	15:45:31	Dilution:	1
148· Sample ID:	QK12004-012	EPA Sample ID:	MBC7G5			Date:	11/21/2015	15:50:18	Dilution:	1
149· Sample ID:	QK12004-013	EPA Sample ID:	MBC7G6			Date:	11/21/2015	15:55:04	Dilution:	1
150· Sample ID:	QK12004-014	EPA Sample ID:	MBC764			Date:	11/21/2015	15:59:52	Dilution:	1
151· Sample ID:	QK04017-001	EPA Sample ID:	MX2171			Date:	11/21/2015	16:04:39	Dilution:	1
152· Sample ID:	QK04017-001L	EPA Sample ID:	MX2171L			Date:	11/21/2015	16:09:30	Dilution:	5
153· Sample ID:	QK04017-001DU	EPA Sample ID:	MX2171D			Date:	11/21/2015	16:14:13	Dilution:	1
154· Sample ID:	QK04017-001MS	EPA Sample ID:	MX2171S			Date:	11/21/2015	16:19:05	Dilution:	1
Ag3280	RECOVERY IS OUT OF CRITERIA			126.7900	1500	50.0	40.0	2.00	1.60	10.00
155· Sample ID:	QK04017-001A	EPA Sample ID:	MX2171A			Date:	11/21/2015	16:23:56	Dilution:	1
156· Sample ID:	QK13012-001	EPA Sample ID:	MBC763			Date:	11/21/2015	16:28:46	Dilution:	1
157· Sample ID:	QK13012-001L	EPA Sample ID:	MBC763L			Date:	11/21/2015	16:33:33	Dilution:	5
158· Sample ID:	QK13012-001DU	EPA Sample ID:	MBC763D			Date:	11/21/2015	16:38:22	Dilution:	1
159· Sample ID:	QK13012-001MS	EPA Sample ID:	MBC763S			Date:	11/21/2015	16:43:08	Dilution:	1
160· Sample ID:	QK13012-001A	EPA Sample ID:	MBC763A			Date:	11/21/2015	16:47:56	Dilution:	1
161· Sample ID:	CCV8	EPA Sample ID:	CCV008			Date:	11/21/2015	16:52:43	Dilution:	1
162· Sample ID:	CCB8	EPA Sample ID:	CCB008			Date:	11/21/2015	16:57:57	Dilution:	1

Analyst: COH
Status: Level 2 review released
Matrix: Aqueous

Printed: 11/24/15 1342

Prep Batch: 89520

ISM02.2 A PREP 200.7: ICP-AES - ICP-AES digestion for waters

Start Date: 11/13/2015 1416
End Date: 11/13/2015 1633
Level 2 Analyst: ECS
Digestion Cup ID: 1504103
Ext Solvent: 1:1 HNO3/1:1 HCl
Reagents Vol. (mL): 1.0, 0.5
Filter Paper Lot Num: 50630759
Chem ID: IM6310-01(1/9/16) IM6310-02(1/9/16)
Hot Block ID: Hot Block #1
Digestion Temperature (°C): 97

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Vol. (mL)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ89520-001	MB	PBW	1	ISM02.2 ICP	50.000		0.0	50			
QQ89520-002	LCS	LCS	1	ISM02.2 ICP	50.000	15-868-01(8/16)	1.0	50			pipette:247
QJ30009-004	Sample	MBC2W9	1	ISM02.2 ICP	50.000		0.0	50	04/26/2016 0950	11/12/2015	
QJ30009-004MS	MS	MBC2W9S	1	ISM02.2 ICP	50.000	15-933(10/16)	1.0	50			pipette:247
QJ30009-004DU	Duplicate	MBC2W9D	1	ISM02.2 ICP	50.000		0.0	50			
QJ30009-005	Sample	MBC2X5	1	ISM02.2 ICP	50.000		0.0	50	04/26/2016 0815	11/12/2015	
QJ30009-006	Sample	MBC2X6	1	ISM02.2 ICP	50.000		0.0	50	04/26/2016 0916	11/12/2015	
QJ30016-001	Sample	MC0KP5	1	ISM02.2 ICP	50.000		0.0	50	04/26/2016 1140	11/13/2015	
QJ30016-001MS	MS	MC0KP5S	1	ISM02.2 ICP	50.000	15-933(10/16)	1.0	50			pipette:247
QJ30016-001DU	Duplicate	MC0KP5D	1	ISM02.2 ICP	50.000		0.0	50			
QJ30016-002	Sample	MC0KQ8	1	ISM02.2 ICP	50.000		0.0	50	04/26/2016 1025	11/13/2015	
QK12004-001	Sample	MBC7F4	1	ISM02.2 ICP	50.000		0.0	50	05/08/2016 1400	11/15/2015	
QK12004-002	Sample	MBC7F5	1	ISM02.2 ICP	50.000		0.0	50	05/08/2016 1111	11/15/2015	
QK12004-002MS	MS	MBC7F5S	1	ISM02.2 ICP	50.000	15-933(10/16)	1.0	50			pipette:247
QK12004-002DU	Duplicate	MBC7F5D	1	ISM02.2 ICP	50.000		0.0	50			
QK12004-003	Sample	MBC7F6	1	ISM02.2 ICP	50.000		0.0	50	05/08/2016 1130	11/15/2015	
QK12004-004	Sample	MBC7F7	1	ISM02.2 ICP	50.000		0.0	50	05/08/2016 1145	11/15/2015	
QK12004-005	Sample	MBC7F8	1	ISM02.2 ICP	50.000		0.0	50	05/08/2016 1200	11/15/2015	
QK12004-006	Sample	MBC7F9	1	ISM02.2 ICP	50.000		0.0	50	05/08/2016 1212	11/15/2015	
QK12004-007	Sample	MBC7G0	1	ISM02.2 ICP	50.000		0.0	50	05/08/2016 1237	11/15/2015	
QK12004-008	Sample	MBC7G1	1	ISM02.2 ICP	50.000		0.0	50	05/08/2016 1415	11/15/2015	
QK12004-009	Sample	MBC7G2	1	ISM02.2 ICP	50.000		0.0	50	05/08/2016 1425	11/15/2015	
QK03007-011	Sample	MJHBR3	1	ISM02.2 ICP	50.000		0.0	50	04/24/2016 1700	11/16/2015	
QK03007-012	Sample	MJHBW1	1	ISM02.2 ICP	50.000		0.0	50	04/26/2016 1500	11/16/2015	

Analyst: COH
Status: Level 2 review released
Matrix: Aqueous

Printed: 11/24/15 1342

Prep Batch: 89520

ISM02.2 A PREP 200.7: ICP-AES - ICP-AES digestion for waters

Start Date: 11/13/2015 1416
End Date: 11/13/2015 1633

Level 2 Analyst: ECS

Digestion Cup ID: 1504103

Ext Solvent: 1:1 HNO3/1:1 HCl
Reagents Vol. (mL): 1.0, 0.5
Chem ID: IM6310-01(1/9/16) IM6310-02(1/9/16)

Hot Block ID: Hot Block #1

Filter Paper Lot Num: 50630759
Digestion Temperature (°C): 97

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Vol. (mL)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments

(end of report)

Total Samples: 16

All samples have a pH < 2

Analyst: COH
Status: Level 2 review released
Matrix: Aqueous

Printed: 11/24/15 1209

Prep Batch: 89995

ISM02.2 A PREP 200.7: ICP-AES - ICP-AES digestion for waters

Start Date: 11/19/2015 1104
End Date: 11/20/2015 1241
Level 2 Analyst: ECS
Digestion Cup ID: 1504103
Ext Solvent: 1:1 HNO3/1:1 HCl
Reagents Vol. (mL): 1.0, 0.5
Chem ID: IM6310-01(1/9/16) IM3610-02(1/9/16)
Hot Block ID: Hot Block #2
Digestion Temperature (°C): 96

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Vol. (mL)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ89995-001	MB	PBS	1	ISM02.2 ICP	50.000		0.0	50			
QQ89995-002	LCS	LCS	1	ISM02.2 ICP	50.000	15-868-01(8/16)	1.0	50			pipette:247
QK12004-010	Sample	MBC7G3	1	ISM02.2 ICP	50.000		0.0	50	05/11/2016 0835	11/15/2015	
QK12004-010MS	MS	MBC7G3S	1	ISM02.2 ICP	50.000	15-933(10/16)	1.0	50			pipette:247
QK12004-010DU	Duplicate	MBC7G3D	1	ISM02.2 ICP	50.000		0.0	50			
QK12004-011	Sample	MBC7G4	1	ISM02.2 ICP	50.000		0.0	50	05/11/2016 0900	11/15/2015	
QK12004-012	Sample	MBC7G5	1	ISM02.2 ICP	50.000		0.0	50	05/11/2016 0915	11/15/2015	
QK12004-013	Sample	MBC7G6	1	ISM02.2 ICP	50.000		0.0	50	05/11/2016 0920	11/15/2015	
QK12004-014	Sample	MBC764	1	ISM02.2 ICP	50.000		0.0	50	05/14/2016 1215	11/15/2015	
QK04017-001	Sample	MX2171	1	ISM02.2 ICP	50.000		0.0	50	05/01/2016 1200	11/17/2015	
QK04017-001MS	MS	MX2171S	1	ISM02.2 ICP	50.000	15-933(10/16)	1.0	50			pipette:247
QK04017-001DU	Duplicate	MX2171D	1	ISM02.2 ICP	50.000		0.0	50			
QK13012-001	Sample	MBC763	1	ISM02.2 ICP	50.000		0.0	50	05/10/2016 0800	11/17/2015	
QK13012-001MS	MS	MBC763S	1	ISM02.2 ICP	50.000	15-933(10/16)	1.0	50			pipette:247
QK13012-001DU	Duplicate	MBC763D	1	ISM02.2 ICP	50.000		0.0	50			

(end of report) **Total Samples: 7** **All samples have a pH < 2**

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM- 520		
Date:	11/5/15	Solvent:	5% HCl (15-1127)	5% HNO_3 (15-1042)	
Comments:	S01 ICP ISM				
Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-76	200	0.2	200	200
Antimony	15-78	60			60
Arsenic	15-76	10			10
Barium		2000			2000
Beryllium		5			5
Cadmium		5			5
Calcium		5000			5000
Chromium		10			10
Cobalt		50			50
Copper		25			25
Iron		100			100
Lead		10			10
Magnesium		5000			5000
Manganese	15-79	15			15
Molybdenum	15-76	50			50
Nickel		40			40
Potassium		5000			5000
Selenium		35			35
Silver		10			10
Sodium		3000			3000
Thallium		25			25
Titanium	15-79	50			50
Vanadium	15-76	50			50
Zinc		60			60

ISM STANDARD LOG

Analyst: NUM	Working Standard No.: ISM-521 (EXP 2/5/16)
Date: 11/5/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: S02 ICP ISM.	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
□ N/A	Aluminum	15-76	200	0.8	200	800
□ N/A	Antimony	15-78	60	↓	↓	240
□ N/A	Arsenic	15-76	10	↓	↓	40
□ N/A	Barium	↓	200	↓	↓	800
□ N/A	Beryllium	↓	5	↓	↓	20
□ N/A	Cadmium	↓	5	↓	↓	20
□ N/A	Calcium	↓	5000	↓	↓	20000
□ N/A	Chromium	↓	10	↓	↓	40
□ N/A	Cobalt	↓	50	↓	↓	200
□ N/A	Copper	↓	25	↓	↓	100
□ N/A	Iron	↓	100	↓	↓	400
□ N/A	Lead	↓	10	↓	↓	40
□ N/A	Magnesium	↓	5000	↓	↓	20000
□ N/A	Manganese	15-76	15	↓	↓	60
□ N/A	Molybdenum	15-79	50	0.4	↓	100
□ N/A	Nickel	15-76	40	0.8	↓	160
□ N/A	Potassium	↓	5000	↓	↓	20000
□ N/A	Selenium	↓	35	↓	↓	140
□ N/A	Silver	↓	10	↓	↓	40
□ N/A	Sodium	↓	3000	↓	↓	12000
□ N/A	Thallium	↓	25	↓	↓	100
□ N/A	Titanium	15-79	50	0.4	↓	100
□ N/A	Vanadium	15-76	50	0.8	↓	200
□ N/A	Zinc	↓	60	↓	↓	240

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM - 538
Date:	11/13/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments:	S03/CCV ICP		

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
□ N/A	Aluminum	15-377	1000	2.5	500	50000
□ N/A	Antimony	15-77	500			2500
□ N/A	Arsenic	15-81	500			2500
□ N/A	Barium		2000			10000
□ N/A	Beryllium		200			1000
□ N/A	Cadmium		200			1000
□ N/A	Calcium	15-377	10000			50000
□ N/A	Chromium	15-81	2000			10000
□ N/A	Cobalt		1000			5000
□ N/A	Copper		2500			12500
□ N/A	Iron	15-377	5000			25000
□ N/A	Lead	15-81	2000			10000
□ N/A	Magnesium	15-377	10000			50000
□ N/A	Manganese	15-81	1000			5000
□ N/A	Molybdenum	15-80	200			1000
□ N/A	Nickel	15-81	1000			5000
□ N/A	Potassium	15-377	7500			37500
□ N/A	Selenium	15-81	2500			1250
□ N/A	Silver		150			750
□ N/A	Sodium	15-377	5000			25000
□ N/A	Thallium	15-81	200			1000
□ N/A	Titanium	15-80	200			1000
□ N/A	Vanadium	15-81	500			2500
□ N/A	Zinc		1000			5000

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-523 (Exp 2/12/16)
Date:	11/12/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments:	S04 ICP		

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☒ N/A	Aluminum	NA	NA	NA	NA	NA
☐ N/A	Antimony	15-77	500	3.75	500	3750
☐ N/A	Arsenic	15-81	500	⊥	⊥	3750
☐ N/A	Barium	⊥	2000	⊥	⊥	15000
☐ N/A	Beryllium	⊥	200	⊥	⊥	1500
☐ N/A	Cadmium	⊥	200	⊥	⊥	1500
☒ N/A	Calcium	NA	NA	NA	NA	NA
☐ N/A	Chromium	15-81	2000	3.75	500	15000
☐ N/A	Cobalt	⊥	1000	⊥	⊥	750
☐ N/A	Copper	⊥	2500	⊥	⊥	18750
☒ N/A	Iron	NA	NA	NA	NA	NA
☐ N/A	Lead	15-81	2000	3.75	500	15000
☒ N/A	Magnesium	NA	NA	NA	NA	NA
☐ N/A	Manganese	15-81	1000	3.75	500	7500
☐ N/A	Molybdenum	15-80	200	⊥	⊥	1500
☐ N/A	Nickel	15-81	1000	⊥	⊥	7500
☒ N/A	Potassium	NA	NA	NA	NA	NA
☐ N/A	Selenium	15-81	250	3.75	500	1875
☐ N/A	Silver	⊥	150	⊥	⊥	1125
☒ N/A	Sodium	NA	NA	NA	NA	NA
☐ N/A	Thallium	15-81	200	3.75	500	1500
☐ N/A	Titanium	15-80	200	⊥	⊥	1500
☐ N/A	Vanadium	15-81	500	⊥	⊥	3750
☐ N/A	Zinc	⊥	1000	⊥	⊥	7500

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-524 (Exp 2/12/16)
Date: 11/12/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments: S05 ICP	

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
☒ N/A	Aluminum	NA	NA	NA	NA	NA
☐ N/A	Antimony	15-77	500	5	500	5000
☐ N/A	Arsenic	15-81	500	↓	↓	5000
☐ N/A	Barium	↓	2000	↓	↓	20000
☐ N/A	Beryllium	↓	200	↓	↓	2000
☐ N/A	Cadmium	↓	200	↓	↓	2000
☒ N/A	Calcium	NA	NA	NA	NA	NA
☐ N/A	Chromium	15-81	2000	5	500	20000
☐ N/A	Cobalt	↓	1000	↓	↓	10000
☐ N/A	Copper	↓	2500	↓	↓	250000
☒ N/A	Iron	NA	NA	NA	NA	NA
☐ N/A	Lead	15-81	2000	5	500	20000
☒ N/A	Magnesium	NA	NA	NA	NA	NA
☐ N/A	Manganese	15-81	1000	5	500	10000
☐ N/A	Molybdenum	15-80	200	↓	↓	2000
☐ N/A	Nickel	15-81	1000	↓	↓	10000
☒ N/A	Potassium	NA	NA	NA	NA	NA
☐ N/A	Selenium	15-81	250	5	500	2500
☐ N/A	Silver	↓	150	↓	↓	1500
☒ N/A	Sodium	NA	NA	NA	NA	NA
☐ N/A	Thallium	15-81	200	5	500	2000
☐ N/A	Titanium	15-80	200	↓	↓	2000
☐ N/A	Vanadium	15-81	500	↓	↓	5000
☐ N/A	Zinc	↓	1000	↓	↓	10000

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-463 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO3 (15-1042)
Comments: 506 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	3	200	150000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	3	200	150000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	3	200	75000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	3	200	150000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	3	200	112500
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	3	200	75000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-464 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042) ECS 10/14/15
Comments: S07 ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	6	200	300000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	6	200	300000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	6	200	150000
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	6	200	300000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	ECS 10/14/15 NA	↓	↓
Nickel	↓	↓	NA	↓	↓
Potassium	15-82	7500	6	200	225000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	6	200	150000
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: ECS	Working Standard No.: ISM-465 (exp 1/14/16)
Date: 10/14/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: SOB ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-82	10000	1.5	200	75000
Antimony	NA	NA	NA	NA	NA
Arsenic	↓	↓	↓	↓	↓
Barium	↓	↓	↓	↓	↓
Beryllium	↓	↓	↓	↓	↓
Cadmium	↓	↓	↓	↓	↓
Calcium	15-82	10000	1.5	200	75000
Chromium	NA	NA	NA	NA	NA
Cobalt	↓	↓	↓	↓	↓
Copper	↓	↓	↓	↓	↓
Iron	15-82	5000	1.5	200	37500
Lead	NA	NA	NA	NA	NA
Magnesium	15-82	10000	1.5	200	75000
Manganese	NA	NA	NA	NA	NA
Molybdenum	↓	↓	↓	↓	↓
Nickel	↓	↓	↓	↓	↓
Potassium	15-82	7500	1.5	200	56250
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	15-82	5000	1.5	200	37500
Thallium	NA	NA	NA	NA	NA
Titanium	↓	↓	↓	↓	↓
Vanadium	↓	↓	↓	↓	↓
Zinc	↓	↓	↓	↓	↓

ISM STANDARD LOG

Analyst: RKT	Working Standard No.: ISM-456
Date: 10-6-15	Solvent: 5% HCl (15-929) 5% HNO3 (15-931)
Comments: 509 ICP	Expires ~~1-6-16~~ RKT 10-8-15 1-6-16

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel	Single Element Std				
Potassium	14-955	10,000	2	200	100,000
Selenium	NA	NA	NA	NA	NA
Silver	↓	↓	↓	↓	↓
Sodium	~~14-955~~ 15-407	10,000	2	200	100,000
Thallium					
Titanium					
Vanadium					
Zinc					

RKT 10-6-15

RKT 10-6-15

ISM STANDARD LOG

Analyst: RLT		Working Standard No.: ISM-457			
Date: 10-8-15		Solvent: 5% HCl (15-929) 5% HNO3 (15-931)			
Comments: S10 ICP		Expires 1-8-16			
Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Magnesium					
Manganese					
Molybdenum					
Nickel					
Potassium	14-955	10,000	0.2	200	10,000
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc					

RLT 10-8-15

RLT 10-8-15

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-514
Date: 11/4/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments: ICV ICP	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	15-135	*	20	200	2521
Antimony	↓	↓	↓	↓	994
Arsenic	↓	↓	↓	↓	999
Barium	↓	↓	↓	↓	497
Beryllium	↓	↓	↓	↓	495
Cadmium	↓	↓	↓	↓	496
Calcium	↓	↓	↓	↓	10026
Chromium	↓	↓	↓	↓	490
Cobalt	↓	↓	↓	↓	499
Copper	↓	↓	↓	↓	492
Iron	↓	↓	↓	↓	5082
Lead	↓	↓	↓	↓	1002
Magnesium	↓	↓	↓	↓	6074
Manganese	↓	↓	↓	↓	499
Molybdenum	NA	NA	↓	NA	NA
Nickel	15-135	*	↓	200	503
Potassium	↓	↓	↓	↓	10021
Selenium	↓	↓	↓	↓	1029
Silver	↓	↓	↓	↓	501
Sodium	↓	↓	↓	↓	10097
Thallium	↓	↓	↓	↓	1028
Titanium	NA	NA	↓	NA	NA
Vanadium	15-135	*	↓	200	501
Zinc	↓	↓	↓	↓	1025

ISM STANDARD LOG

Analyst:	NCM	Working Standard No.:	ISM-519 Exp 2/5/16
Date:	11/5/15	Solvent:	5% HCl (15-1127) 5% HNO_3 (15-1042)
Comments:	ISM ICSA ICP	* Provided by the EPA. No true value given by the EPA.	

Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
Aluminum	14-1033	*	10	100	254900
Antimony	NA	NA	NA	NA	NA
Arsenic					
Barium					
Beryllium					
Cadmium					
Calcium	14-1033	*	10	100	244500
Chromium	NA	NA	NA	NA	NA
Cobalt					
Copper					
Iron	14-1033	*	10	100	100700
Lead	11/5/15 NCM ~~14-1033~~ NA	NA	NA	NA	NA
Magnesium	14-1033	*	10	100	255400
Manganese	NA	NA	NA	NA	NA
Molybdenum					
Nickel					
Potassium					
Selenium					
Silver					
Sodium					
Thallium					
Titanium					
Vanadium					
Zinc					

ISM STANDARD LOG

Analyst: NCM	Working Standard No.: ISM-522 (Exp 2/11/16)
Date: 11/11/15	Solvent: 5% HCl (15-1127) 5% HNO_3 (15-1242)
Comments: ICSAB ISM	* Stock provided by EPA, no true value given

N/A Check Box if Analyte Not Needed	Analyte	Stock Standard ID	Conc. of Stock Std. (µg/mL)	Aliquot Volume (mL)	Final Dilution Volume (mL)	Final Conc. (µg/L)
□ N/A	Aluminum	14-1034 + 14-1033	*	10/10	100	246800
□ N/A	Antimony	↓	↓	10	↓	618
□ N/A	Arsenic	↓	↓	↓	↓	104
□ N/A	Barium	↓	↓	↓	↓	537
□ N/A	Beryllium	↓	↓	↓	↓	495
□ N/A	Cadmium	↓	↓	↓	↓	972
□ N/A	Calcium	+ 14-1033	↓	10/10	↓	234900
□ N/A	Chromium	↓	↓	10	↓	542
□ N/A	Cobalt	↓	↓	↓	↓	476
□ N/A	Copper	↓	↓	↓	↓	571
□ N/A	Iron	+ 14-1033	↓	10/10	↓	99320
□ N/A	Lead	↓	↓	10	↓	49
□ N/A	Magnesium	+ 14-1033	↓	10/10	↓	248000
□ N/A	Manganese	↓	↓	10	↓	507
☒ N/A	Molybdenum	NA	NA	NA	NA	NA
□ N/A	Nickel	14-1034	*	10	100	954
☒ N/A	Potassium	NA	NA	NA	NA	NA
□ N/A	Selenium	14-1034	*	10	100	46
□ N/A	Silver	↓	↓	↓	↓	201
☒ N/A	Sodium	NA	NA	NA	NA	NA
□ N/A	Thallium	14-1034	*	10	100	108
☒ N/A	Titanium	NA	NA	NA	NA	NA
□ N/A	Vanadium	14-1034	*	10	100	491
□ N/A	Zinc	↓	↓	↓	↓	952

SHEALY ENVIRONMENTAL SERVICES

ISM02.2 SUMMARY DATA PACKAGE

LAB CODE: EQI
CONTRACT: EPW-14-035

MERCURY

Inorganic Analysis Data Sheet (Form 1-IN)
Initial and Continuing Calibration Verification (Form 2-IN)
Blanks (Form 3-IN)
Matrix Spike Sample Recovery (Form 5A-IN)
Duplicates (Form 6-IN)
Laboratory Control Sample (Form 7-IN)
Method Detection Limit (Form 9-IN)
Analysis Log (Form 12-IN)
Initial Calibration (Form 15-IN)
Initial Calibration Summary (Form 16-IN)
Mercury Raw Data
Mercury Preparation Log Books, Preparation Records, Analysis Records

Mercury
Sample Analysis Data Sheet

SDG COVER PAGE

Lab Name: Shealy Environmental Services, In

Contract: EPW14035

Lab Code: EQI

Case No: 45717

MA No.:

SDG No: MBC7F4

SOW No.: ISM02.2

EPA Sample No.	Lab Sample ID	Analysis Method ICP-AES	ICP-MS	Mercury	Cyanide
MBC7F4	QK12004-001			X	
MBC7F5	QK12004-002			X	
MBC7F5D	QK12004-002DU			X	
MBC7F5S	QK12004-002MS			X	
MBC7F6	QK12004-003			X	
MBC7F7	QK12004-004			X	
MBC7F8	QK12004-005			X	
MBC7F9	QK12004-006			X	
MBC7G0	QK12004-007			X	
MBC7G1	QK12004-008			X	
MBC7G2	QK12004-009			X	
MBC7G3	QK12004-010			X	
MBC7G4	QK12004-011			X	
MBC7G5	QK12004-012			X	
MBC7G6	QK12004-013			X	

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the SDG Narrative. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Robert

Name: Robert Zhu

Date: 12/3/2015

Title: Technical Director

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-001

% Solids: Date Received: 11/12/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.040	J*	11/24/2015	19:29:50

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-002

% Solids: Date Received: 11/12/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.042	J*	11/24/2015	19:31:42

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-003

% Solids: Date Received: 11/12/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.039	J*	11/24/2015	19:37:19

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F7

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-004

% Solids: Date Received: 11/12/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.040	J*	11/24/2015	19:39:10

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F8

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-005

% Solids: Date Received: 11/12/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.051	J*	11/24/2015	19:41:02

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7F9

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-006

% Solids: Date Received: 11/12/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.036	J*	11/24/2015	19:42:53

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G0

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-007

% Solids: Date Received: 11/12/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.046	J*	11/24/2015	19:44:45

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G1

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-008

% Solids: Date Received: 11/12/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.16	J*	11/24/2015	19:46:38

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G2

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-009

% Solids: Date Received: 11/12/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11	J*	11/24/2015	19:52:19

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G3

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-010

% Solids: Date Received: 11/14/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.039	J*	11/24/2015	19:54:12

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G4

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-011

% Solids: Date Received: 11/14/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.038	J*	11/24/2015	19:56:04

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G5

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-012

% Solids: Date Received: 11/14/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.034	J*	11/24/2015	19:57:57

NOTE: Hardness (total) is reported in mg/L

Comments:

FORM 1-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MBC7G6

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Lab Sample ID: QK12004-013

% Solids: Date Received: 11/14/2015

Analytical Method: CVAA

Concentration Units (ug/L, ug, mg/kg dry weight, or ug): UG/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.044	J*	11/24/2015	19:59:49

NOTE: Hardness (total) is reported in mg/L

Comments:

Mercury
QC Summary/Forms

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID: ICV001				ID: CCV001				ID: CCV002		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury	4.0	4.1	103		5.0	4.8	96		4.7	94	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV003				ID: CCV004		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.6	92		4.7	94	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV005				ID: CCV006		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.8	96		4.8	96	

FORM 2-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Initial Calibration Verification Source: EPA ICV5-0508

Continuing Calibration Verification Source: High Purity

Run Batch: HG4112415 ISMA1 Analytical Method: CVAA

Concentration Units: ug/L

	Initial Calibration Verification				Continuing Calibration Verification						
	ID:				ID: CCV008				ID: CCV009		
Analyte	True	Found	%R	%RSD	True	Found	%R	%RSD	Found	%R	%RSD
Mercury					5.0	4.8	96		4.8	96	

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Preparation Blank Matrix: WATER

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug): UG/L

Analytical Method: CVAA Preparation Batch: 90340

Run Batch: HG4112415 ISMA1 Preparation Method 7470A

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID: ICB001	Q	ID: CCB001	Q	ID: CCB002	Q	ID: CCB003	Q	ID: PBW001	Q
Mercury	0.20	U	0.20	U	0.20	U	0.20	U	0.043	J

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: CVAA Preparation Batch:

Run Batch: HG4112415 ISMA1 Preparation Method

	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
Analyte	ID:	Q	ID: CCB004	Q	ID: CCB005	Q	ID: CCB006	Q	ID:	Q
Mercury			0.20	U	0.20	U	0.20	U		

FORM 3-IN

BLANKS

Lab Name: Shealy Environmental Services, In Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Preparation Blank Matrix:

Preparation Blank Concentration Units (ug/L, mg/kg, mg/kg dry weight, or ug):

Analytical Method: CVAA Preparation Batch:

Run Batch: HG4112415 ISMA1 Preparation Method

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						- Preparation Blank	
	ID:	Q	ID: CCB008	Q	ID: CCB009	Q	ID:	Q	ID:	Q
Mercury			0.20	U	0.20	U				

FORM 5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MBC7F5S

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Analytical Method: CVAA

% Solids for Sample:

Concentration Units (ug/L, mg/L, or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q
Mercury	75 - 125	1.4		0.042		1.0	136	*

FORM 6-IN

DUPLICATES

EPA SAMPLE NO.

MBC7F5D

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Matrix: WATER Analytical Method: CVAA

% Solids:

Concentration Units:(ug/L, mg/L, or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	Q	Duplicate (D)	Q	RPD	Q
Mercury		0.042		0.029	J		

FORM 9-IN

METHOD DETECTION LIMITS

Lab Name: Shealy Environmental Services, I Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Analytical Method: CVAA Instrument ID: Hg4

Preparation Method: 7470A

Concentration Units (ug/L, ug, mg/kg): UG/L

Analyte	Wavelength/Mass	MDL	Date Analyzed
Mercury	253.70	0.023	03/25/2015

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 11/24/2015 End Date: 11/24/2015

Run Batch: HG4112415 ISMA1

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
S0	1.0	1803															X											
S01	1.0	1805															X											
S02	1.0	1807															X											
S03	1.0	1809															X											
S04	1.0	1810															X											
S05	1.0	1812															X											
ICV001	1.0	1814															X											
ICB001	1.0	1816															X											
CCV001	1.0	1818															X											
CCB001	1.0	1820															X											
ZZZZZZ	1.0	1822																										
ZZZZZZ	1.0	1824																										
ZZZZZZ	1.0	1826																										
ZZZZZZ	1.0	1828																										
ZZZZZZ	1.0	1829																										
ZZZZZZ	1.0	1831																										
ZZZZZZ	1.0	1833																										
ZZZZZZ	1.0	1835																										
ZZZZZZ	1.0	1837																										
ZZZZZZ	1.0	1839																										
CCV002	1.0	1841															X											
CCB002	1.0	1842															X											
ZZZZZZ	1.0	1844																										
ZZZZZZ	1.0	1846																										
ZZZZZZ	1.0	1848																										
ZZZZZZ	1.0	1850																										
ZZZZZZ	1.0	1852																										
ZZZZZZ	1.0	1854																										
ZZZZZZ	1.0	1855																										
ZZZZZZ	1.0	1857																										
ZZZZZZ	1.0	1859																										
ZZZZZZ	1.0	1901																										
CCV003	1.0	1903															X											
CCB003	1.0	1905															X											
ZZZZZZ	1.0	1907																										
ZZZZZZ	1.0	1909																										
ZZZZZZ	1.0	1910																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 11/24/2015 End Date: 11/24/2015

Run Batch: HG4112415 ISMA1

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	1912																										
ZZZZZZ	1.0	1914																										
ZZZZZZ	1.0	1916																										
ZZZZZZ	1.0	1918																										
ZZZZZZ	1.0	1920																										
ZZZZZZ	1.0	1922																										
ZZZZZZ	1.0	1924																										
CCV004	1.0	1926															X											
CCB004	1.0	1927															X											
MBC7F4	1.0	1929															X											
MBC7F5	1.0	1931															X											
MBC7F5S	1.0	1933															X											
MBC7F5D	1.0	1935															X											
MBC7F6	1.0	1937															X											
MBC7F7	1.0	1939															X											
MBC7F8	1.0	1941															X											
MBC7F9	1.0	1942															X											
MBC7G0	1.0	1944															X											
MBC7G1	1.0	1946															X											
CCV005	1.0	1948															X											
CCB005	1.0	1950															X											
MBC7G2	1.0	1952															X											
MBC7G3	1.0	1954															X											
MBC7G4	1.0	1956															X											
MBC7G5	1.0	1957															X											
MBC7G6	1.0	1959															X											
ZZZZZZ	1.0	2001																										
ZZZZZZ	1.0	2003																										
ZZZZZZ	1.0	2005																										
ZZZZZZ	1.0	2007																										
ZZZZZZ	1.0	2009																										
CCV006	1.0	2011															X											
CCB006	1.0	2013															X											
ZZZZZZ	1.0	2015																										
ZZZZZZ	1.0	2016																										
ZZZZZZ	1.0	2018																										
ZZZZZZ	1.0	2020																										

FORM 12-IN

ANALYSIS LOG

Lab Name: Shealy Environmental Services, Inc. Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: Hg4 Analytical Method: CVAA

Start Date: 11/24/2015 End Date: 11/24/2015

Run Batch: HG4112415 ISMA1

EPA Sample NO.	D/F	Time	Analytes																									
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN		
ZZZZZZ	1.0	2022																										
ZZZZZZ	1.0	2024																										
ZZZZZZ	1.0	2026																										
ZZZZZZ	1.0	2028																										
ZZZZZZ	1.0	2030																										
ZZZZZZ	1.0	2031																										
ZZZZZZ	1.0	2033																										
ZZZZZZ	1.0	2035																										
ZZZZZZ	1.0	2037																										
ZZZZZZ	1.0	2039																										
ZZZZZZ	1.0	2041																										
ZZZZZZ	1.0	2043																										
ZZZZZZ	1.0	2045																										
ZZZZZZ	1.0	2046																										
ZZZZZZ	1.0	2048																										
ZZZZZZ	1.0	2050																										
ZZZZZZ	1.0	2052																										
ZZZZZZ	1.0	2054																										
CCV008	1.0	2056															X											
CCB008	1.0	2058															X											
ZZZZZZ	1.0	2100																										
ZZZZZZ	1.0	2102																										
ZZZZZZ	1.0	2103																										
ZZZZZZ	1.0	2105																										
ZZZZZZ	1.0	2107																										
ZZZZZZ	1.0	2109																										
ZZZZZZ	1.0	2111																										
ZZZZZZ	1.0	2113																										
ZZZZZZ	1.0	2115																										
PBW001	1.0	2117															X											
CCV009	1.0	2118															X											
CCB009	1.0	2120															X											
ZZZZZZ	1.0	2122																										
ZZZZZZ	1.0	2124																										
ZZZZZZ	1.0	2126																										
ZZZZZZ	1.0	2128																										
ZZZZZZ	1.0	2130																										

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7F4

Instrument ID: Hg4 **Start Date:** 11/24/2015

Analytical Method: CVAA **Run Batch:** HG4112415 ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	0.00	0.041	0	0.200	0.22	10	0.500	0.48	-4

FORM 15-IN

INITIAL CALIBRATION

Lab Name: Shealy Environmental Services, Contract: EPW14035

Lab Code: EQI Case No.: 45717 MA No.: SDG No.: MBC7F4

Instrument ID: Hg4 Start Date: 11/24/2015

Analytical Method: CVAA Run Batch: HG4112415 ISMA1

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Mercury	1.00	0.96	-4	5.00	5.0	0	10.0	10	0

FORM 16-IN

INITIAL CALIBRATION SUMMARY

Lab Name: Shealy Environmental Services, Inc. **Contract:** EPW14035

Lab Code: EQI **Case No.:** 45717 **MA No.:** _____ **SDG No.:** MBC7F4

Instrument ID: Hg4 **Start Date:** 11/24/2015

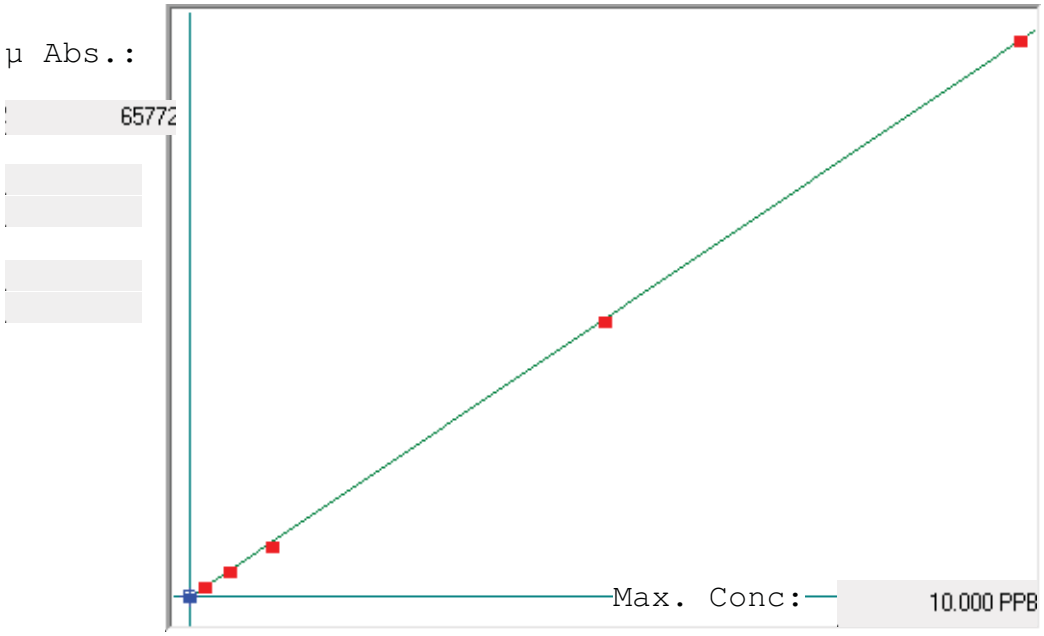
Analytical Method: CVAA **Run Batch:** HG4112415 ISMA1

Analyte	Corr. Coeff.	Slope	Intercept	Calib. Type	Weighting
Mercury	1.0000	1.000	0.0272	Lin. Req	None

Mercury
Raw Data

HG4ISMW

Linear



A= 0.0000e+000

B= 1.5178e-004

C= 2.7154e-002

Rho= 0.9999728

Accept= Accepted

Accepted Date=

11/24/15 18:14

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4
BLANK S0	0.000	0.041	0.041	92	0.000	92			
CAL 1 0.2 S01 15HG1518	0.200	0.220	0.020	1268	0.0 %	1268			
CAL 2 0.5 S02 15HG1517	0.500	0.482	-0.018	2999	0.0 %	2999			
CAL 3 1.0 S03 15HG1516	1.000	0.959	-0.041	6138	0.0 %	6138			
CAL 4 5.0 S04 15HG1515	5.000	4.988	-0.012	32683	0.0 %	32683			
CAL 5 10.0 S05 15HG1514	10.000	10.010	0.010	65772	0.0 %	65772			

HG4112415ISMA

Method: HG4ISMW Operator: Admin Date of Analysis: 24 Nov 2015 14:18:45

Sample ID	Extended ID	Conc.	Units	µ Abs.	Date
BLANK S0 - 1		-	PPB	92	24 Nov 2015 18:03:24
CAL 1 0.2 S01 15HG1518 - 1		-	PPB	1268	24 Nov 2015 18:05:15
CAL 2 0.5 S02 15HG1517 - 1		-	PPB	2999	24 Nov 2015 18:07:07
CAL 3 1.0 S03 15HG1516 - 1		-	PPB	6138	24 Nov 2015 18:09:00
CAL 4 5.0 S04 15HG1515 - 1		-	PPB	32683	24 Nov 2015 18:10:53
CAL 5 10.0 S05 15HG1514 - 1		-	PPB	65772	24 Nov 2015 18:12:46
ICV001 15HG1519 - 1		103.3% 4.1321	PPB	27045	24 Nov 2015 18:14:44
ICB 001		-0.0031	PPB	-199	24 Nov 2015 18:16:46
CCV001		97.0% 4.8481	PPB	31762	24 Nov 2015 18:18:39
CCB001		-0.0015	PPB	-189	24 Nov 2015 18:20:29
QQ90339001 - 1	PBW001	0.0323	PPB	34	24 Nov 2015 18:22:27
QJ30005001 - 1	MB0AS8	0.0347	PPB	50	24 Nov 2015 18:24:18
QJ30005002 - 1	MB0AS9	0.0422	PPB	99	24 Nov 2015 18:26:09
QJ30005002MS - 1	MB0AS9S	1.2555	PPB	8093	24 Nov 2015 18:28:00
QJ30005002DU - 1	MB0AS9D	0.0191	PPB	-53	24 Nov 2015 18:29:51
QJ30005003 - 1	MB0AT0	0.0451	PPB	118	24 Nov 2015 18:31:43
QJ30005004 - 1	MB0AT1	0.0413	PPB	93	24 Nov 2015 18:33:35
QJ30005005 - 1	MB0AT2	0.0372	PPB	66	24 Nov 2015 18:35:26
QJ30005006 - 1	MB0AT3	0.0391	PPB	79	24 Nov 2015 18:37:17
QJ30005007 - 1	MB0AT4	0.0379	PPB	71	24 Nov 2015 18:39:09
CCV002		94.0% 4.6978	PPB	30772	24 Nov 2015 18:41:01
CCB 002		-0.0058	PPB	-217	24 Nov 2015 18:42:51
QJ30005008 - 1	MB0AT5	0.0396	PPB	82	24 Nov 2015 18:44:49
QJ30005009 - 1	MB0AT6	0.0663	PPB	258	24 Nov 2015 18:46:41
QJ30005010 - 1	MB0AT7	0.0443	PPB	113	24 Nov 2015 18:48:34
QJ30005011 - 1	MB0AT8	0.0416	PPB	95	24 Nov 2015 18:50:25
QJ30005012 - 1	MB0AT9	0.0508	PPB	156	24 Nov 2015 18:52:16
QJ30005013 - 1	MB0AW1	0.0396	PPB	82	24 Nov 2015 18:54:07
QJ30005013MS - 1	MB0AW1S	1.2481	PPB	8044	24 Nov 2015 18:55:58
QJ30005013DU - 1	MB0AW1D	0.0226	PPB	-30	24 Nov 2015 18:57:49
QJ30009001 - 1	MBC2X1	0.0390	PPB	78	24 Nov 2015 18:59:42
QJ30009001MS - 1	MBC2X1S	1.2832	PPB	8275	24 Nov 2015 19:01:33
CCV 003		91.8% 4.5919	PPB	30074	24 Nov 2015 19:03:25
CCB 003		-0.0000	PPB	-179	24 Nov 2015 19:05:17
QJ30009001DU - 1	MBC2X1D	0.0420	PPB	98	24 Nov 2015 19:07:15
QJ30009002 - 1	MBC2X2	0.0375	PPB	68	24 Nov 2015 19:09:07
QJ30009003 - 1	MBC2X3	0.0516	PPB	161	24 Nov 2015 19:10:59
QJ30009004 - 1	MBC2W9	0.0367	PPB	63	24 Nov 2015 19:12:51
QJ30009004MS - 1	MBC2W9S	1.2944	PPB	8349	24 Nov 2015 19:14:44
QJ30009004DU - 1	MBC2W9D	0.0256	PPB	-10	24 Nov 2015 19:16:35
QJ30009005 - 1	MBC2X5	0.0452	PPB	119	24 Nov 2015 19:18:28
QJ30009006 - 1	MBC2X6	0.0449	PPB	117	24 Nov 2015 19:20:20
QQ90340001 - 1	PBW001	7.0069	PPB	45985	24 Nov 2015 19:22:11
QK12004001 - 1	MBC7F4	0.0023	PPB	-164	24 Nov 2015 19:24:03
CCV 004		94.7% 4.7327	PPB	31002	24 Nov 2015 19:26:04
CCB 004		-0.0134	PPB	-267	24 Nov 2015 19:27:54
QK12004001 - 1	MBC7F4	0.0401	PPB	85	24 Nov 2015 19:29:50
QK12004002 - 1	MBC7F5	0.0420	PPB	98	24 Nov 2015 19:31:42
QK12004002MS - 1	MBC7F5S	1.3798	PPB	8912	24 Nov 2015 19:33:33
QK12004002DU - 1	MBC7F5D	0.0293	PPB	14	24 Nov 2015 19:35:25
QK12004003 - 1	MBC7F6	0.0391	PPB	79	24 Nov 2015 19:37:19
QK12004004 - 1	MBC7F7	0.0401	PPB	85	24 Nov 2015 19:39:10
QK12004005 - 1	MBC7F8	0.0513	PPB	159	24 Nov 2015 19:41:02
QK12004006 - 1	MBC7F9	0.0358	PPB	57	24 Nov 2015 19:42:53
QK12004007 - 1	MBC7G0	0.0457	PPB	122	24 Nov 2015 19:44:45
QK12004008 - 1	MBC7G1	0.1563	PPB	851	24 Nov 2015 19:46:38
CCV 005		95.1% 4.7564	PPB	31158	24 Nov 2015 19:48:30
CCB 005		-0.0015	PPB	-189	24 Nov 2015 19:50:21
QK12004009 - 1	MBC7G2	0.1105	PPB	549	24 Nov 2015 19:52:19
QK12004010 - 1	MBC7G3	0.0387	PPB	76	24 Nov 2015 19:54:12
QK12004011 - 1	MBC7G4	0.0382	PPB	73	24 Nov 2015 19:56:04
QK12004012 - 1	MBC7G5	0.0341	PPB	46	24 Nov 2015 19:57:57
QK12004013 - 1	MBC7G6	0.0437	PPB	109	24 Nov 2015 19:59:49
QK12004014 - 1	MBC764	0.0393	PPB	80	24 Nov 2015 20:01:40
QK03007011 - 1	MJHBR3	0.0361	PPB	59	24 Nov 2015 20:03:33
QK03007012 - 1	MJBW1	0.0420	PPB	98	24 Nov 2015 20:05:25
QK04017003 - 1	MX2173	5.0644	PPB	33187	24 Nov 2015 20:07:18
QK04017003MS - 1	MX2173S	7.4923	PPB	49183	24 Nov 2015 20:09:10
CCV 006		96.1% 4.8027	PPB	31463	24 Nov 2015 20:11:08

HG4112415ISMA

Method: HG4ISMW Operator: Admin Date of Analysis: 24 Nov 2015 14:18:45

Sample ID	Extended ID	Conc.	Units	µ Abs.	Date
CCB 006		-0.0096	PPB	-242	24 Nov 2015 20:13:07
QK04017003DU - 1	MX2173D	0.0237	PPB	-23	24 Nov 2015 20:15:05
QK13012001 - 1	MB763	0.0476	PPB	135	24 Nov 2015 20:16:57
QK13012001MS - 1	MB763S	0.3942	PPB	2418	24 Nov 2015 20:18:49
QK13012001DU - 1	MB763D	0.0393	PPB	80	24 Nov 2015 20:20:42
QQ90341001 - 1	PBW001	0.0373	PPB	67	24 Nov 2015 20:22:35
QK05011001 - 1	MC0KF9	0.0385	PPB	75	24 Nov 2015 20:24:27
QK05011002 - 1	MC0KG0	0.0757	PPB	320	24 Nov 2015 20:26:19
QK05011003 - 1	MC0KG1	0.0379	PPB	71	24 Nov 2015 20:28:12
QK05011004 - 1	MC0KG2	0.0373	PPB	67	24 Nov 2015 20:30:04
QK05011005 - 1	MC0KG3	0.0379	PPB	71	24 Nov 2015 20:31:56
CCV 007		97.3% 4.8666	PPB	31884	24 Nov 2015 20:33:49
CCB007		-0.0043	PPB	-207	24 Nov 2015 20:35:39
QK05011006 - 1	MC0KG4	0.0357	PPB	56	24 Nov 2015 20:37:37
QK05011007 - 1	MC0KJ9	0.0401	PPB	85	24 Nov 2015 20:39:30
QK05011008 - 1	MC0KK0	0.0364	PPB	61	24 Nov 2015 20:41:21
QK05011009 - 1	MC0KH4	0.0411	PPB	92	24 Nov 2015 20:43:13
QK05011010 - 1	MC0KK1	0.0408	PPB	90	24 Nov 2015 20:45:06
QK05011011 - 1	MC0KK2	0.0542	PPB	178	24 Nov 2015 20:46:58
QK05011012 - 1	MC0KK5	0.0445	PPB	114	24 Nov 2015 20:48:50
QK05011012MS - 1	MC0KK5S	0.8321	PPB	5303	24 Nov 2015 20:50:42
QK05011012DU - 1	MC0KKD5	0.0302	PPB	20	24 Nov 2015 20:52:34
QK05011013 - 1	MC0KK6	0.0391	PPB	79	24 Nov 2015 20:54:28
CCV 008		95.3% 4.7666	PPB	31225	24 Nov 2015 20:56:20
CCB 008		-0.0068	PPB	-224	24 Nov 2015 20:58:10
QK05011013MS - 1	MC0KK6S	0.8172	PPB	5205	24 Nov 2015 21:00:08
QK05011013DU - 1	MC0KK6D	0.0296	PPB	16	24 Nov 2015 21:02:00
QK05011014 - 1	MC0KN0	0.0437	PPB	109	24 Nov 2015 21:03:54
QK05011015 - 1	MC0KN7	0.0455	PPB	121	24 Nov 2015 21:05:46
QK05011016 - 1	MC0KN8	0.0413	PPB	93	24 Nov 2015 21:07:38
QK05011017 - 1	MC0KN9	0.0355	PPB	55	24 Nov 2015 21:09:30
QK05011018 - 1	MC0KP1	0.0382	PPB	73	24 Nov 2015 21:11:23
QK05011019 - 1	MC0KP2	0.0381	PPB	72	24 Nov 2015 21:13:15
QK05011020 - 1	MC0KP3	0.0402	PPB	86	24 Nov 2015 21:15:07
QQ90340001 - 1	PBW001	0.0428	PPB	103	24 Nov 2015 21:17:00
CCV 009		95.7% 4.7866	PPB	31357	24 Nov 2015 21:18:53
CCB 009		-0.0037	PPB	-203	24 Nov 2015 21:20:43
QK04017003 - 1	MX2173	6.3586	PPB	41714	24 Nov 2015 21:22:41
QK04017003MS - 1	MX2173S	7.5041	PPB	49261	24 Nov 2015 21:24:33
QK04017003DU - 1	MX2173D	6.2550	PPB	41031	24 Nov 2015 21:26:33
CCV 010		92.7% 4.6374	PPB	30374	24 Nov 2015 21:28:34
CCB 010		-0.0049	PPB	-211	24 Nov 2015 21:30:31

Mercury
Preparation Log Books and Records, Analysis Records

Analytical Review Report

Data File: ***HG4112415 ISMA1***

Analyst: ***BNW***

Hg4

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
1· Sample ID:	BLANK S0	EPA Sample ID:	S0			Date:	11/24/2015	18:03:24	Dilution:	1
2· Sample ID:	CAL 1 0-.2 S01 15HG1	EPA Sample ID:	S01			Date:	11/24/2015	18:05:15	Dilution:	1
3· Sample ID:	CAL 2 0-.5 S02 15HG1	EPA Sample ID:	S02			Date:	11/24/2015	18:07:07	Dilution:	1
4· Sample ID:	CAL 3 1-.0 S03 15HG1	EPA Sample ID:	S03			Date:	11/24/2015	18:09:00	Dilution:	1
5· Sample ID:	CAL 4 5-.0 S04 15HG1	EPA Sample ID:	S04			Date:	11/24/2015	18:10:53	Dilution:	1
6· Sample ID:	CAL 5 1-0.0 S05 15HG	EPA Sample ID:	S05			Date:	11/24/2015	18:12:46	Dilution:	1
7· Sample ID:	ICV1	EPA Sample ID:	ICV001			Date:	11/24/2015	18:14:44	Dilution:	1
8· Sample ID:	ICB1	EPA Sample ID:	ICB001			Date:	11/24/2015	18:16:46	Dilution:	1
9· Sample ID:	CCV1	EPA Sample ID:	CCV001			Date:	11/24/2015	18:18:39	Dilution:	1
10· Sample ID:	CCB1	EPA Sample ID:	CCB001			Date:	11/24/2015	18:20:29	Dilution:	1
11· Sample ID:	QQ90339-001	EPA Sample ID:	QQ90339-001MB			Date:	11/24/2015	18:22:27	Dilution:	1
12· Sample ID:	QJ30005-001	EPA Sample ID:	MB0AS8			Date:	11/24/2015	18:24:18	Dilution:	1
13· Sample ID:	QJ30005-002	EPA Sample ID:	MB0AS9			Date:	11/24/2015	18:26:09	Dilution:	1
14· Sample ID:	QJ30005-002MS	EPA Sample ID:	MB0AS9S			Date:	11/24/2015	18:28:00	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA			1.2555	25	1.0	126.0	0.00	0.02	0.20
15· Sample ID:	QJ30005-002DU	EPA Sample ID:	MB0AS9D			Date:	11/24/2015	18:29:51	Dilution:	1
16· Sample ID:	QJ30005-003	EPA Sample ID:	MB0AT0			Date:	11/24/2015	18:31:43	Dilution:	1
17· Sample ID:	QJ30005-004	EPA Sample ID:	MB0AT1			Date:	11/24/2015	18:33:35	Dilution:	1
18· Sample ID:	QJ30005-005	EPA Sample ID:	MB0AT2			Date:	11/24/2015	18:35:26	Dilution:	1
19· Sample ID:	QJ30005-006	EPA Sample ID:	MB0AT3			Date:	11/24/2015	18:37:17	Dilution:	1
20· Sample ID:	QJ30005-007	EPA Sample ID:	MB0AT4			Date:	11/24/2015	18:39:09	Dilution:	1
21· Sample ID:	CCV2	EPA Sample ID:	CCV002			Date:	11/24/2015	18:41:01	Dilution:	1
22· Sample ID:	CCB2	EPA Sample ID:	CCB002			Date:	11/24/2015	18:42:51	Dilution:	1
23· Sample ID:	QJ30005-008	EPA Sample ID:	MB0AT5			Date:	11/24/2015	18:44:49	Dilution:	1
24· Sample ID:	QJ30005-009	EPA Sample ID:	MB0AT6			Date:	11/24/2015	18:46:41	Dilution:	1
25· Sample ID:	QJ30005-010	EPA Sample ID:	MB0AT7			Date:	11/24/2015	18:48:34	Dilution:	1
26· Sample ID:	QJ30005-011	EPA Sample ID:	MB0AT8			Date:	11/24/2015	18:50:25	Dilution:	1
27· Sample ID:	QJ30005-012	EPA Sample ID:	MB0AT9			Date:	11/24/2015	18:52:16	Dilution:	1
28· Sample ID:	QJ30005-013	EPA Sample ID:	MB0AW1			Date:	11/24/2015	18:54:07	Dilution:	1
29· Sample ID:	QJ30005-013MS	EPA Sample ID:	MB0AW1S			Date:	11/24/2015	18:55:58	Dilution:	1
30· Sample ID:	QJ30005-013DU	EPA Sample ID:	MB0AW1D			Date:	11/24/2015	18:57:49	Dilution:	1
31· Sample ID:	QJ30009-001	EPA Sample ID:	MBC2X1			Date:	11/24/2015	18:59:42	Dilution:	1
32· Sample ID:	QJ30009-001MS	EPA Sample ID:	MBC2X1S			Date:	11/24/2015	19:01:33	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA			1.2832	25	1.0	126.0	0.00	0.02	0.20
33· Sample ID:	CCV3	EPA Sample ID:	CCV003			Date:	11/24/2015	19:03:25	Dilution:	1
34· Sample ID:	CCB3	EPA Sample ID:	CCB003			Date:	11/24/2015	19:05:17	Dilution:	1
35· Sample ID:	QJ30009-001DU	EPA Sample ID:	MBC2X1D			Date:	11/24/2015	19:07:15	Dilution:	1
36· Sample ID:	QJ30009-002	EPA Sample ID:	MBC2X2			Date:	11/24/2015	19:09:07	Dilution:	1
37· Sample ID:	QJ30009-003	EPA Sample ID:	MBC2X3			Date:	11/24/2015	19:10:59	Dilution:	1
38· Sample ID:	QJ30009-004	EPA Sample ID:	MBC2W9			Date:	11/24/2015	19:12:51	Dilution:	1
39· Sample ID:	QJ30009-004MS	EPA Sample ID:	MBC2W9S			Date:	11/24/2015	19:14:44	Dilution:	1
Hg	RECOVERY IS OUT OF CRITERIA			1.2944	25	1.0	126.0	0.00	0.02	0.20

Analytical Review Report

Data File: ***HG4112415 ISMA1***

Analyst: ***BNW***

Hg4

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
40·	**Sample ID:**	**QJ30009-004DU**	**EPA Sample ID:**	**MBC2W9D**		**Date:**	**11/24/2015**	**19:16:35**	**Dilution:**	**1**
41·	**Sample ID:**	**QJ30009-005**	**EPA Sample ID:**	**MBC2X5**		**Date:**	**11/24/2015**	**19:18:28**	**Dilution:**	**1**
42·	**Sample ID:**	**QJ30009-006**	**EPA Sample ID:**	**MBC2X6**		**Date:**	**11/24/2015**	**19:20:20**	**Dilution:**	**1**
43·	**Sample ID:**	**QQ90340-001**	**EPA Sample ID:**	**PBW001**		**Date:**	**11/24/2015**	**19:22:11**	**Dilution:**	**1**
Hg	MB result is greater than High Det Lim			7.0069	25			0.00	0.02	0.20
44·	**Sample ID:**	**QK12004-001**	**EPA Sample ID:**	**MBC7F4**		**Date:**	**11/24/2015**	**19:24:03**	**Dilution:**	**1**
45·	**Sample ID:**	**CCV4**	**EPA Sample ID:**	**CCV004**		**Date:**	**11/24/2015**	**19:26:04**	**Dilution:**	**1**
46·	**Sample ID:**	**CCB4**	**EPA Sample ID:**	**CCB004**		**Date:**	**11/24/2015**	**19:27:54**	**Dilution:**	**1**
47·	**Sample ID:**	**QK12004-001**	**EPA Sample ID:**	**MBC7F4**		**Date:**	**11/24/2015**	**19:29:50**	**Dilution:**	**1**
48·	**Sample ID:**	**QK12004-002**	**EPA Sample ID:**	**MBC7F5**		**Date:**	**11/24/2015**	**19:31:42**	**Dilution:**	**1**
49·	**Sample ID:**	**QK12004-002MS**	**EPA Sample ID:**	**MBC7F5S**		**Date:**	**11/24/2015**	**19:33:33**	**Dilution:**	**1**
Hg	RECOVERY IS OUT OF CRITERIA			1.3798	25	1.0	136.0	0.00	0.02	0.20
50·	**Sample ID:**	**QK12004-002DU**	**EPA Sample ID:**	**MBC7F5D**		**Date:**	**11/24/2015**	**19:35:25**	**Dilution:**	**1**
51·	**Sample ID:**	**QK12004-003**	**EPA Sample ID:**	**MBC7F6**		**Date:**	**11/24/2015**	**19:37:19**	**Dilution:**	**1**
52·	**Sample ID:**	**QK12004-004**	**EPA Sample ID:**	**MBC7F7**		**Date:**	**11/24/2015**	**19:39:10**	**Dilution:**	**1**
53·	**Sample ID:**	**QK12004-005**	**EPA Sample ID:**	**MBC7F8**		**Date:**	**11/24/2015**	**19:41:02**	**Dilution:**	**1**
54·	**Sample ID:**	**QK12004-006**	**EPA Sample ID:**	**MBC7F9**		**Date:**	**11/24/2015**	**19:42:53**	**Dilution:**	**1**
55·	**Sample ID:**	**QK12004-007**	**EPA Sample ID:**	**MBC7G0**		**Date:**	**11/24/2015**	**19:44:45**	**Dilution:**	**1**
56·	**Sample ID:**	**QK12004-008**	**EPA Sample ID:**	**MBC7G1**		**Date:**	**11/24/2015**	**19:46:38**	**Dilution:**	**1**
57·	**Sample ID:**	**CCV5**	**EPA Sample ID:**	**CCV005**		**Date:**	**11/24/2015**	**19:48:30**	**Dilution:**	**1**
58·	**Sample ID:**	**CCB5**	**EPA Sample ID:**	**CCB005**		**Date:**	**11/24/2015**	**19:50:21**	**Dilution:**	**1**
59·	**Sample ID:**	**QK12004-009**	**EPA Sample ID:**	**MBC7G2**		**Date:**	**11/24/2015**	**19:52:19**	**Dilution:**	**1**
60·	**Sample ID:**	**QK12004-010**	**EPA Sample ID:**	**MBC7G3**		**Date:**	**11/24/2015**	**19:54:12**	**Dilution:**	**1**
61·	**Sample ID:**	**QK12004-011**	**EPA Sample ID:**	**MBC7G4**		**Date:**	**11/24/2015**	**19:56:04**	**Dilution:**	**1**
62·	**Sample ID:**	**QK12004-012**	**EPA Sample ID:**	**MBC7G5**		**Date:**	**11/24/2015**	**19:57:57**	**Dilution:**	**1**
63·	**Sample ID:**	**QK12004-013**	**EPA Sample ID:**	**MBC7G6**		**Date:**	**11/24/2015**	**19:59:49**	**Dilution:**	**1**
64·	**Sample ID:**	**QK12004-014**	**EPA Sample ID:**	**MBC764**		**Date:**	**11/24/2015**	**20:01:40**	**Dilution:**	**1**
65·	**Sample ID:**	**QK03007-011**	**EPA Sample ID:**	**MJHBR3**		**Date:**	**11/24/2015**	**20:03:33**	**Dilution:**	**1**
66·	**Sample ID:**	**QK03007-012**	**EPA Sample ID:**	**MJHBW1**		**Date:**	**11/24/2015**	**20:05:25**	**Dilution:**	**1**
67·	**Sample ID:**	**QK04017-003**	**EPA Sample ID:**	**MX2173**		**Date:**	**11/24/2015**	**20:07:18**	**Dilution:**	**1**
68·	**Sample ID:**	**QK04017-003MS**	**EPA Sample ID:**	**MX2173S**		**Date:**	**11/24/2015**	**20:09:10**	**Dilution:**	**1**
69·	**Sample ID:**	**CCV6**	**EPA Sample ID:**	**CCV006**		**Date:**	**11/24/2015**	**20:11:08**	**Dilution:**	**1**
70·	**Sample ID:**	**CCB6**	**EPA Sample ID:**	**CCB006**		**Date:**	**11/24/2015**	**20:13:07**	**Dilution:**	**1**
71·	**Sample ID:**	**QK04017-003DU**	**EPA Sample ID:**	**MX2173D**		**Date:**	**11/24/2015**	**20:15:05**	**Dilution:**	**1**
Hg	RPD IS OUT OF CRITERIA			0.0237	25		198.0	0.00	0.02	0.20
72·	**Sample ID:**	**QK13012-001**	**EPA Sample ID:**	**MBC763**		**Date:**	**11/24/2015**	**20:16:57**	**Dilution:**	**1**
73·	**Sample ID:**	**QK13012-001MS**	**EPA Sample ID:**	**MBC763S**		**Date:**	**11/24/2015**	**20:18:49**	**Dilution:**	**1**
Hg	RECOVERY IS OUT OF CRITERIA			0.3942	25	1.0	34.0	0.00	0.02	0.20
74·	**Sample ID:**	**QK13012-001DU**	**EPA Sample ID:**	**MBC763D**		**Date:**	**11/24/2015**	**20:20:42**	**Dilution:**	**1**
75·	**Sample ID:**	**QQ90341-001**	**EPA Sample ID:**	**QQ90341-001MB**		**Date:**	**11/24/2015**	**20:22:35**	**Dilution:**	**1**
76·	**Sample ID:**	**QK05011-001**	**EPA Sample ID:**	**MC0KF9**		**Date:**	**11/24/2015**	**20:24:27**	**Dilution:**	**1**
77·	**Sample ID:**	**QK05011-002**	**EPA Sample ID:**	**MC0KG0**		**Date:**	**11/24/2015**	**20:26:19**	**Dilution:**	**1**

Analytical Review Report

Data File: *HG4112415 ISMA1*

Analyst: *BNW*

Hg4

Parameter	Review Message			Result	LDR	TV	Rec/RPD	RSD	IDL/MDL	PQL
78·	Sample ID:	QK05011-003	EPA Sample ID:	MC0KG1		Date:	11/24/2015	20:28:12	Dilution:	1
79·	Sample ID:	QK05011-004	EPA Sample ID:	MC0KG2		Date:	11/24/2015	20:30:04	Dilution:	1
80·	Sample ID:	QK05011-005	EPA Sample ID:	MC0KG3		Date:	11/24/2015	20:31:56	Dilution:	1
81·	Sample ID:	CCV7	EPA Sample ID:	CCV007		Date:	11/24/2015	20:33:49	Dilution:	1
82·	Sample ID:	CCB7	EPA Sample ID:	CCB007		Date:	11/24/2015	20:35:39	Dilution:	1
83·	Sample ID:	QK05011-006	EPA Sample ID:	MC0KG4		Date:	11/24/2015	20:37:37	Dilution:	1
84·	Sample ID:	QK05011-007	EPA Sample ID:	MC0KJ9		Date:	11/24/2015	20:39:30	Dilution:	1
85·	Sample ID:	QK05011-008	EPA Sample ID:	MC0KK0		Date:	11/24/2015	20:41:21	Dilution:	1
86·	Sample ID:	QK05011-009	EPA Sample ID:	MC0KH4		Date:	11/24/2015	20:43:13	Dilution:	1
87·	Sample ID:	QK05011-010	EPA Sample ID:	MC0KK1		Date:	11/24/2015	20:45:06	Dilution:	1
88·	Sample ID:	QK05011-011	EPA Sample ID:	MC0KK2		Date:	11/24/2015	20:46:58	Dilution:	1
89·	Sample ID:	QK05011-012	EPA Sample ID:	MC0KK5		Date:	11/24/2015	20:48:50	Dilution:	1
90·	Sample ID:	QK05011-012MS	EPA Sample ID:	MC0KK5S		Date:	11/24/2015	20:50:42	Dilution:	1
91·	Sample ID:	QK05011-012DU	EPA Sample ID:	MC0KK5D		Date:	11/24/2015	20:52:34	Dilution:	1
92·	Sample ID:	QK05011-013	EPA Sample ID:	MC0KK6		Date:	11/24/2015	20:54:28	Dilution:	1
93·	Sample ID:	CCV8	EPA Sample ID:	CCV008		Date:	11/24/2015	20:56:20	Dilution:	1
94·	Sample ID:	CCB8	EPA Sample ID:	CCB008		Date:	11/24/2015	20:58:10	Dilution:	1
95·	Sample ID:	QK05011-013MS	EPA Sample ID:	MC0KK6S		Date:	11/24/2015	21:00:08	Dilution:	1
96·	Sample ID:	QK05011-013DU	EPA Sample ID:	MC0KK6D		Date:	11/24/2015	21:02:00	Dilution:	1
97·	Sample ID:	QK05011-014	EPA Sample ID:	MC0KN0		Date:	11/24/2015	21:03:54	Dilution:	1
98·	Sample ID:	QK05011-015	EPA Sample ID:	MC0KN7		Date:	11/24/2015	21:05:46	Dilution:	1
99·	Sample ID:	QK05011-016	EPA Sample ID:	MC0KN8		Date:	11/24/2015	21:07:38	Dilution:	1
100·	Sample ID:	QK05011-017	EPA Sample ID:	MC0KN9		Date:	11/24/2015	21:09:30	Dilution:	1
101·	Sample ID:	QK05011-018	EPA Sample ID:	MC0KP1		Date:	11/24/2015	21:11:23	Dilution:	1
102·	Sample ID:	QK05011-019	EPA Sample ID:	MC0KP2		Date:	11/24/2015	21:13:15	Dilution:	1
103·	Sample ID:	QK05011-020	EPA Sample ID:	MC0KP3		Date:	11/24/2015	21:15:07	Dilution:	1
104·	Sample ID:	QQ90340-001	EPA Sample ID:	PBW001		Date:	11/24/2015	21:17:00	Dilution:	1
105·	Sample ID:	CCV9	EPA Sample ID:	CCV009		Date:	11/24/2015	21:18:53	Dilution:	1
106·	Sample ID:	CCB9	EPA Sample ID:	CCB009		Date:	11/24/2015	21:20:43	Dilution:	1
107·	Sample ID:	QK04017-003	EPA Sample ID:	MX2173		Date:	11/24/2015	21:22:41	Dilution:	1
108·	Sample ID:	QK04017-003MS	EPA Sample ID:	MX2173S		Date:	11/24/2015	21:24:33	Dilution:	1
109·	Sample ID:	QK04017-003DU	EPA Sample ID:	MX2173D		Date:	11/24/2015	21:26:33	Dilution:	1
110·	Sample ID:	CCV10	EPA Sample ID:	CCV010		Date:	11/24/2015	21:28:34	Dilution:	1
111·	Sample ID:	CCB10	EPA Sample ID:	CCB010		Date:	11/24/2015	21:30:31	Dilution:	1

Analyst: COH
Status: Level 2 review released
Matrix: Aqueous

Printed: 11/28/15 1431

Prep Batch: 90340

ISM02.2 A PREP 7470A: Mercury - Mercury Preparation for waters

Start Date: 11/23/2015 1221
End Date: 11/23/2015 1421
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: H2SO4/1:1HNO3/KMnO4/K2S2O8/NaCl-NH2OH-HCl
Reagents Vol. (mL): 2.0, 2.0, 6.0, 3.2, 2.4
Chem ID: 15-426(4/17) IM6310-01(1/9/16) IM6215-01(12/2/15) IM6310-03(12/2/15) IM621
Hot Block ID: Hot Block #4
Digestion Temperature (°C): 95

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Vol. (mL)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QQ90340-001	MB	PBW	1	ISM02.2 HG	40		0.0	50			
QK12004-001	Sample	MBC7F4	1	ISM02.2 HG	40		0.0	50	12/06/2015 1400	11/15/2015	
QK12004-002	Sample	MBC7F5	1	ISM02.2 HG	40		0.0	50	12/06/2015 1111	11/15/2015	
QK12004-002MS	MS	MBC7F5S	1	ISM02.2 HG	40	15HG1513(11	0.5	50			pipette:274
QK12004-002DU	Duplicate	MBC7F5D	1	ISM02.2 HG	40		0.0	50			
QK12004-003	Sample	MBC7F6	1	ISM02.2 HG	40		0.0	50	12/06/2015 1130	11/15/2015	
QK12004-004	Sample	MBC7F7	1	ISM02.2 HG	40		0.0	50	12/06/2015 1145	11/15/2015	
QK12004-005	Sample	MBC7F8	1	ISM02.2 HG	40		0.0	50	12/06/2015 1200	11/15/2015	
QK12004-006	Sample	MBC7F9	1	ISM02.2 HG	40		0.0	50	12/06/2015 1212	11/15/2015	
QK12004-007	Sample	MBC7G0	1	ISM02.2 HG	40		0.0	50	12/06/2015 1237	11/15/2015	
QK12004-008	Sample	MBC7G1	1	ISM02.2 HG	40		0.0	50	12/06/2015 1415	11/15/2015	
QK12004-009	Sample	MBC7G2	1	ISM02.2 HG	40		0.0	50	12/06/2015 1425	11/15/2015	
QK12004-010	Sample	MBC7G3	1	ISM02.2 HG	40		0.0	50	12/09/2015 0835	11/15/2015	
QK12004-011	Sample	MBC7G4	1	ISM02.2 HG	40		0.0	50	12/09/2015 0900	11/15/2015	
QK12004-012	Sample	MBC7G5	1	ISM02.2 HG	40		0.0	50	12/09/2015 0915	11/15/2015	
QK12004-013	Sample	MBC7G6	1	ISM02.2 HG	40		0.0	50	12/09/2015 0920	11/15/2015	
QK12004-014	Sample	MBC764	1	ISM02.2 HG	40		0.0	50	12/12/2015 1215	11/15/2015	
QK03007-011	Sample	MJHBR3	1	ISM02.2 HG	40		0.0	50	11/22/2015 1700	11/16/2015	
QK03007-012	Sample	MJHBW1	1	ISM02.2 HG	40		0.0	50	11/24/2015 1500	11/16/2015	
QK04017-003	Sample	MX2173	1	ISM02.2 HG	40		0.0	50	11/29/2015 1200	11/17/2015	
QK04017-003MS	MS	MX2173S	1	ISM02.2 HG	40	15HG1513(11	0.5	50			pipette:274
QK04017-003DU	Duplicate	MX2173D	1	ISM02.2 HG	40		0.0	50			
QK13012-001	Sample	MBC763	1	ISM02.2 HG	40		0.0	50	12/08/2015 0800	11/17/2015	
QK13012-001MS	MS	MBC763S	1	ISM02.2 HG	40	15HG1513(11	0.5	50			pipette:274

Analyst: COH
Status: Level 2 review released
Matrix: Aqueous

Printed: 11/28/15 1431

Prep Batch: 90340

ISM02.2 A PREP 7470A: Mercury - Mercury Preparation for waters

Start Date: 11/23/2015 1221
End Date: 11/23/2015 1421
Level 2 Analyst: FTS
Digestion Cup ID: 1504103
Ext Solvent: H2SO4/1:1HNO3/KMnO4/K2S2O8/NaCl-NH2OH-HCl
Reagents Vol. (mL): 2.0, 2.0, 6.0, 3.2, 2.4
Chem ID: 15-426(4/17) IM6310-01(1/9/16) IM6215-01(12/2/15) IM6310-03(12/2/15) IM621 **Hot Block ID:** Hot Block #4
Digestion Temperature (°C): 95

Sample ID	QC Code	Client Sample ID	Run	Analysis Descript	Initial Vol. (mL)	Spike ID	Spike Vol. (mL)	Final Vol. (mL)	Holding Time Expires	Analytical Due Date	Comments
QK13012-001DU	Duplicate	MBC763D	1	ISM02.2 HG	40		0.0	50			
QQ90340-004	Standard	Conc = 0.0000 ug/L	1	ISM02.2 HG	40		0.0	50			S0
QQ90340-104	Standard	Conc = 10.0000 ug/L	1	ISM02.2 HG	40	15HG1514(11	0.0	50			S05
QQ90340-204	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	40	15HG1515(11	0.0	50			S04
QQ90340-304	Standard	Conc = 1.0000 ug/L	1	ISM02.2 HG	40	15HG1516(11	0.0	50			S03
QQ90340-404	Standard	Conc = 0.5000 ug/L	1	ISM02.2 HG	40	15HG1517(11	0.0	50			S02
QQ90340-504	Standard	Conc = 0.2000 ug/L	1	ISM02.2 HG	40	15HG1518(11	0.0	50			S01
QQ90340-101	MB		1	ISM02.2 HG	40		0.0	50			ICB
QQ90340-704	Standard	Conc = 4.0000 ug/L	1	ISM02.2 HG	40	15HG1519(11	0.0	50			ICV
QQ90340-201	MB		1	ISM02.2 HG	40		0.0	50			CCB
QQ90340-904	Standard	Conc = 5.0000 ug/L	1	ISM02.2 HG	40	15HG1515(11	0.0	50			CCV

(end of report) **Total Samples: 18** **All samples have a pH < 2**

MERCURY (HG) STANDARD LOG

Preservation: 0.15 % HNO_3 (ID: IM6366-01) (1/30/16)

Date	Analyst	Stock/Int. Standard ID	Stock/Int. Standard Conc. (ug/L)	Aliquoted Volume (mL)	Final Volume (mL)	Final Conc. (ug/L)	Working Standard ID		
11/17/15	KDB	15HG1220	1000	8	100	80	15HG	1501	
↓	↓	15HG1500	100	2	↓	2	15HG	1502	
11/18/15	KDB	15-138 (7/16)	1000 µg/mL	1	1000	1000	15HG	1503	
↓	↓	15-134 (8/16)	1000 µg/mL	1	1000	1000	15HG	1504	
11/18/15	KDB	15HG1503	1000	20	100	200	15HG	1505	
↓	↓	↓	~~15~~	15	↓	150	15HG	1506	11/18/15 KDB
↓	↓	↓	~~10~~	10	↓	100	15HG	1507	11/18/15 KDB
↓	↓	↓	~~5~~	5	↓	50	15HG	1508	11/18/15 KDB
↓	↓	↓	~~1~~	1	↓	10	15HG	1509	11/18/15 KDB
↓	↓	15HG1504	1000	50	↓	500	15HG	1510	
↓	↓	↓	↓	10	↓	100	15HG	1511	
11/20/15	CCH	15HG1503	1000	10	100	100	15HG	1512	
11/23/15	CCH	15HG1503	1000	10	100	100	15HG	1513	
↓	↓	15HG1513	100	10	↓	10	15HG	1514	
↓	↓	↓	↓	5	↓	5	15HG	1515	
↓	↓	↓	↓	1	↓	1	15HG	1516	
↓	↓	↓	↓	0.5	↓	0.5	15HG	1517	
↓	↓	↓	↓	0.2	↓	0.2	15HG	1518	
↓	↓	ICVS-0508	400	1	↓	4	15HG	1519	
11/24/15	KDB	15HG1503	1000	10	100	100	15HG	1520	

MERCURY (HG) STANDARD LOG

Preservation: 0.15 % HNO_3 (ID: I M 6366-01) (1/30/16)

Date	Analyst	Stock/Int. Standard ID	Stock/Int. Standard Conc. (ug/L)	Aliquoted Volume (mL)	Final Volume (mL)	Final Conc. (ug/L)	Working Standard ID	
11/24/15	KDB	15HG1520	100	5	100	5	15HG	1521
				2		2	15HG	1522
				1		1	15HG	1523
		15HG1521	5	4		0.2	15HG	1524
				2		0.1	15HG	1525
		15HG1504	1000	10		100	15HG	1526
				8		80	15HG	1527
		15HG1526	100	2		2	15HG	1528
11/25/15	CLH	15HG1503	1000	10	100	100	15HG	1529
							15HG	1530
							15HG	1531
							15HG	1532
							15HG	1533
							15HG	1534
							15HG	1535
							15HG	1536
							15HG	1537
							15HG	1538
							15HG	1539
							15HG	1540

MISCELLANEOUS

Percent Solids Determination Log (if applicable)

Shipping Documents (Airbills –Original)

Sample Tags (if applicable)

Sample Log-in sheet (lab)

Internal Chain of Custody

Other Records

FedEx Express Package US Airbill

FedEx Tracking Number 8088 5684 5233

Form ID No. 0200

1 From [redacted]

Date 11/11/15

Sender's Name Denise Breen Phone 732 417 5814

Company Weston Solutions, Inc

Address 205 Campus Drive Dept./Floor/Suite/Room

City Edison State NJ ZIP 08837

2 Your Internal Billing Reference 20408.016.004.0269.00

3 To Recipient's Name Brad Belding Phone 803 791 9700

Company Shealy Environmental Services, - EQI

Address 106 Vantage Point Drive Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City West Columbia State SC ZIP 29172

Kelly [signature] 11-12-15

8088 5684 5233

4 Express Package S

Next Business Day

- [x] FedEx First Overnight — Earliest next business morning d locations. Friday shipments will b Monday unless Saturday Deliver
- [ ] FedEx Priority Overnig — Next business morning.* Friday delivered on Monday unless Sa is selected.
- [ ] FedEx Standard Over — Next business afternoon.* Saturday Delivery NOT availa

5 Packaging *De

- [ ] FedEx Envelope*

6 Special Handli

- [ ] Saturday Delivery — NOT available for FedEx
- [ ] No Signature Rec — Package may be left wit obtaining a signature for

Does this shipmen One b

- [x] No
- [ ] Yes — As pe Shipp

Restrictions apply for dangen

7 Payment B

- [ ] Sender — Acct. No. in Section 1 will be billed.

[redacted]

Total Packages 2 Total Weight 105 lbs. [redacted]

644

†Our liability is limited to US$100 unless you declare a higher value. See the current FedEx Service Guide for details.

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UNITED STATES US

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SHEALY ENVIRNMENTLA SERVICES
106 VANTAGE POINT DR

WEST COLUMBIA SC 29172
(803) 791-9700
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REF:
DEPT:

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1 of 2

TRK# 0200 8088 5684 5233

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SC–US CAE

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Lacey Gaddis

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0200 8044 6775 2027

DSR
29172
SC-US CAE

X0 USCA

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Sheely Environmental Services		Page of
Received By (Print Name) Kelly W Price		Log-in Date
Received By (Signature) Kelly W Price		
Case Number 45717	SDG No. MBC7F4	MA No.

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8088 5684 5233
6. Sample Tags	Present/Absent*
Sample Tag Numbers	Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/ Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	2.8°
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11-12-15
12. Time Received	0800

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC7F4	2.0	NA	QK12004-001	OK
2	MBC7F5	2.0		-002	
3	MBC7F6	2.0		-003	
4	MBC7F7	2.0		-004	
5	MBC7F8	2.0		-005	
6	MBC7F9	2.0		-006	
7	MBC7G0	2.0		-007	
8	MBC7G1	2.0		-008	
9	MBC7G2	2.0		-009	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

KWP 11-12-15

* Contact SMO and attach record of resolution

Reviewed By	Logbook No.
Date	Logbook Page No.

FORM DC-1
SAMPLE LOG-IN SHEET

Lab Name Shealy Environmental		Page 1 of 1
Received By (Print Name) Lacey Goulding		Log-in Date 11/14/15
Received By (Signature) Lacey Goulding		
Case Number 45717	SDG No. MBC7C9, MBC7F4	MA No.

Remarks:	
1. Custody Seal(s)	Present/Absent* Intact/Broken
2. Custody Seal Nos.	NA
3. Traffic Reports/Chain of Custody Records or Packing Lists	Present/Absent*
4. Airbill	Airbill/Sticker Present/Absent*
5. Airbill No.	8044 6775 2027
6. Sample Tags Sample Tag Numbers	Present/Absent* Listed/Not Listed on Traffic Report/Chain of Custody Record
7. Sample Condition	Intact/Broken*/Leaking
8. Shipping Container Temperature Indicator Bottle	Present/Absent*
9. Shipping Container Temperature	1.6 °C
10. Does information on Traffic Reports/Chain of Custody Records and Sample Tags agree?	Yes/No*
11. Date Received at Lab	11/14/15
12. Time Received	0845

	EPA Sample #	Aqueous/ Water Sample pH	Corresponding Sample Tag #	Corresponding Assigned Lab #	Remarks: Condition of Sample Shipment, etc.
1	MBC7B1	NA	NA	QK13013-003	OK
2	MBC7B2	↓	↓	↓ -004	↓
3	MBC7B3	↓	↓	↓ -005	↓
4	MBC7B4	↓	↓	↓ -006	↓
5	MBC7B6	↓	↓	↓ -007	↓
6	MBC7G3	1.5	↓	QK12004-010	↓
7	MBC7G4	↓	↓	↓ -011	↓
8	MBC7G5	↓	↓	↓ -012	↓
9	MBC7G6	↓	↓	↓ -013	↓
10	MBC7H8	NA	↓	QK13013-008	↓
11					
12					
13				11/14/15	
14				LGG	
15					
16					
17					
18					
19					
20					
21					
22					

* Contact SMO and attach record of resolution

Reviewed By MMN	Logbook No. MK
Date 11/16/15	Logbook Page No. 100

Internal Chain-of-Custody Report

Printed: 11/28/2015 1428

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK12004-004	1 L P-HNO3	11/13/2015 08:55	SR (WI # 1)	IM Prep	True	COH
QK12004-009	1 L P-HNO3	11/13/2015 08:55	SR (WI # 1)	IM Prep	True	COH
QK12004-002	1 L P-HNO3	11/13/2015 09:17	IM Prep	SR (WI # 1)	True	COH
QK12004-006	1 L P-HNO3	11/13/2015 09:17	IM Prep	SR (WI # 1)	True	COH
QK12004-001	1 L P-HNO3	11/13/2015 09:18	IM Prep	SR (WI # 1)	True	COH
QK12004-005	1 L P-HNO3	11/13/2015 08:55	SR (WI # 1)	IM Prep	True	COH
QK12004-007	1 L P-HNO3	11/13/2015 08:55	SR (WI # 1)	IM Prep	True	COH
QK12004-003	1 L P-HNO3	11/13/2015 09:17	IM Prep	SR (WI # 1)	True	COH
QK12004-004	1 L P-HNO3	11/13/2015 09:17	IM Prep	SR (WI # 1)	True	COH
QK12004-008	1 L P-HNO3	11/13/2015 09:18	IM Prep	SR (WI # 1)	True	COH
QK12004-006	1 L P-HNO3	11/13/2015 08:55	SR (WI # 1)	IM Prep	True	COH
QK12004-002	1 L P-HNO3	11/13/2015 08:55	SR (WI # 1)	IM Prep	True	COH
QK12004-008	1 L P-HNO3	11/13/2015 08:55	SR (WI # 1)	IM Prep	True	COH
QK12004-009	1 L P-HNO3	11/13/2015 09:17	IM Prep	SR (WI # 1)	True	COH
QK12004-005	1 L P-HNO3	11/13/2015 09:17	IM Prep	SR (WI # 1)	True	COH
QK12004-002	1 L P-HNO3	11/13/2015 08:55	SR (WI # 1)	IM Prep	True	COH
QK12004-003	1 L P-HNO3	11/13/2015 08:55	SR (WI # 1)	IM Prep	True	COH
QK12004-001	1 L P-HNO3	11/13/2015 08:55	SR (WI # 1)	IM Prep	True	COH
QK12004-007	1 L P-HNO3	11/13/2015 09:17	IM Prep	SR (WI # 1)	True	COH
QK12004-002	1 L P-HNO3	11/13/2015 09:17	IM Prep	SR (WI # 1)	True	COH
QK12004-011	1 L P-HNO3	11/19/2015 09:57	SR (WI # 1)	IM Prep	True	COH
QK12004-014	1 L P-HNO3	11/19/2015 10:55	SR (WI # 1)	IM Prep	True	COH
QK12004-010	1 L P-HNO3	11/19/2015 09:57	SR (WI # 1)	IM Prep	True	COH
QK12004-012	1 L P-HNO3	11/19/2015 09:57	SR (WI # 1)	IM Prep	True	COH
QK12004-013	1 L P-HNO3	11/19/2015 09:57	SR (WI # 1)	IM Prep	True	COH
QK12004-012	1 L P-HNO3	11/19/2015 12:06	IM Prep	SR (WI # 1)	True	COH
QK12004-010	1 L P-HNO3	11/19/2015 12:05	IM Prep	SR (WI # 1)	True	COH
QK12004-013	1 L P-HNO3	11/19/2015 12:05	IM Prep	SR (WI # 1)	True	COH
QK12004-014	1 L P-HNO3	11/19/2015 12:07	IM Prep	SR (WI # 1)	True	COH
QK12004-011	1 L P-HNO3	11/19/2015 12:06	IM Prep	SR (WI # 1)	True	COH
QK12004-005	1 L P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK12004-007	1 L P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK12004-003	1 L P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK12004-011	1 L P-HNO3	11/23/2015 11:25	SR (WI # 1)	IM Prep	True	COH
QK12004-012	1 L P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK12004-009	1 L P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK12004-008	1 L P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK12004-010	1 L P-HNO3	11/23/2015 10:51	SR (WI # 1)	IM Prep	True	COH
QK12004-004	1 L P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK12004-002	1 L P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK12004-014	1 L P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK12004-013	1 L P-HNO3	11/23/2015 10:51	SR (WI # 1)	IM Prep	True	COH
QK12004-002	1 L P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK12004-006	1 L P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK12004-002	1 L P-HNO3	11/23/2015 10:52	SR (WI # 1)	IM Prep	True	COH
QK12004-001	1 L P-HNO3	11/23/2015 12:05	SR (WI # 1)	IM Prep	True	COH
QK12004-005	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-012	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-007	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-006	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-011	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-003	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-008	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH

Internal Chain-of-Custody Report

Printed: 11/28/2015 1428

Sample ID	Container ID	Entry Date/Time	Source	Destination	Valid	Emp
QK12004-009	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-002	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-010	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-002	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-002	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-004	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-013	1 L P-HNO3	11/23/2015 14:29	IM Prep	SR (WI # 1)	True	COH
QK12004-001	1 L P-HNO3	11/23/2015 14:04	IM Prep	SR (WI # 1)	True	COH
QK12004-014	1 L P-HNO3	11/23/2015 14:04	IM Prep	SR (WI # 1)	True	COH
QK12004-014	1 L P-HNO3	11/25/2015 15:28	SR (WI # 1)	IM Prep	True	KDB
QK12004-014	1 L P-HNO3	11/25/2015 19:15	SR (WI # 1)	IM Prep	True	KDB
QK12004-014	1 L P-HNO3	11/25/2015 19:15	IM Prep	SR (WI # 1)	True	KDB
QK12004-014	1 L P-HNO3	11/28/2015 10:34	SR (WI # 1)	IM Prep	True	COH
QK12004-014	1 L P-HNO3	11/28/2015 10:42	IM Prep	SR (WI # 1)	True	COH

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory Personnel

Background

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum, or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of a contracted Site Assessment Team 2 (SAT) for each EPA Region. The WESTON Region 8 Start IV Contract EP-S8-13-01 Region 2 Site Assessment Team provides support to EPA Region 2.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable D.O.T. or IATA Regulations and were collected by the WESTON SAT and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, well, and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water, and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples.* Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples.*

The samples which accompany this notice have been tentatively classified by the field response team as:

__X__ Environmental ____ Hazardous ____ Comb. (Envir. & Haz.) ____ Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions .to provide protection against possible radiological or chemical exposure:

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Levels of personal protection used by the WESTON SAT are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgment.

This form was prepared by: Scott Snyder Date 11 / 13/15

Case No. 45717 Date 11 /13/13

WESTON Office: Region 2 SAT, Edison, NJ Phone: 732-417-5800 Fax: 732-417-5801

Laboratory Name: Shealy

REFERENCE 12

Market Properties

HOME PAGE

PHOTOS

Market Properties

Market Propeties
400 Market Industrial Park
Suite 50
Wappingers Falls, NY 12590

Directions

View Larger Map

Email us: Info@marketproperties.net

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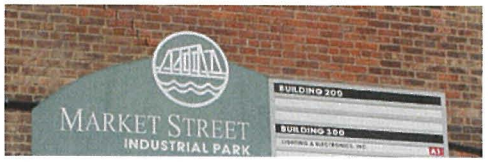
MARKET STREET
INDUSTRIAL PARK
BUILDING 200
BUILDING 300

REFERENCE 13

Wappinger Creek
Market Street
Wappingers Falls, NY 12590

Inquiry Number: 4397871.9
August 31, 2015

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th Floor
Shelton, Connecticut 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography August 31, 2015

Target Property:

Market Street

Wappingers Falls, NY 12590

Year	***Scale***	***Details***	***Source***
1958	Aerial Photograph. Scale: 1"=500'	Flight Date: August 05, 1958	EDR
1984	Aerial Photograph. Scale: 1"=500'	Flight Date: March 26, 1984	USGS
1995	Aerial Photograph. Scale: 1"=500'	DOQQ - acquisition dates: March 27, 1995	USGS/DOQQ
2006	Aerial Photograph. Scale: 1"=500'	Flight Year: 2006	USDA/NAIP
2009	Aerial Photograph. Scale: 1"=500'	Flight Year: 2009	USDA/NAIP
2011	Aerial Photograph. Scale: 1"=500'	Flight Year: 2011	USDA/NAIP

INQUIRY #: 4397871.9
YEAR: 1958
= 500'
N
EDR

INQUIRY #: 4397871.9
YEAR: 1984
= 500'
N
EDR

Possible North Lagoon
INQUIRY #: 4397871.9
YEAR: 1995
= 500'
N
EDR

INQUIRY #: 4397871.9
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 4397871.9
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 4397871.9
YEAR: 2011
= 500'
N
EDR

REFERENCE 14

Grinnell Library

Grinnell Library, opened on October 21, 1887, was planned and designed in the style of buildings found in Mr. Irving Grinnell's world travels: a Swiss chalet, a "little church" in St. Battenberg in the mountains of Switzerland, and the old houses in Chester, England which became models for the second story overhang. (845-297-3428)

Mesier Homestead

The house, constructed by Nicholas Brewer in 1741 and sold to Peter Mesier in 1776, and a plot of five acres of land were conveyed to the Village of Wappingers Falls on August 27th 1891 under an agreement that the property should be forever known as Mesier Park. (845-297-8773)

Reese Park

This 38 acre park and natural area, given to the Town of Wappinger on June 16, 1961 by the Reese family, is being maintained as a conservation area to attract and hold native plants and animals to provide for observation and study of plant-animal communities. (845-297-0720)

Wappingers Falls Cemetery

Established in 1849, the cemetery has older plots of prominent families outlined with pipe borders mounted on marble or granite posts, a 1924 small chapel of stone masonry construction and since 1971, one hundred acres reserved for veterans.

Market Street Industrial Park

The former site of the textile manufacturing industry at the heart of the Village's economy these historic loft-type buildings are finding new life through adaptive reuse.

Fisherman's Park

This small park, created through the joint efforts of the late Hank DiMarco and the NYS DOT, provides scenic views, parking and access to Wappinger Lake for fishing.

Village Hall

In 1940 the present colonial stone post office was erected under the direction of President Franklin Roosevelt. Inside there are two large murals painted by Mr. Henry Billings, depicting aspects of Village life in the 1780's.

Ellessdie Chapel

This historical chapel, founded by James Lennox and his sister Mary Lennox Scheafe, is now part of Dutchess County Bowdoin Park. The name of the chapel was derived from the initials of three Lennox siblings.

Reese Audubon Sanctuary

Reese Sanctuary, owned by Putnam-Highlands Audubon, is a 98 acre nature park which extends along a bluff overlooking the Wappingers Creek Estuary. (845-226-7455)

Bowdoin Park

This 341 acre park provides scenic views of the Hudson River which complement the open picnic areas, nature trails, native American artifacts, educational programs, playgrounds, pavilions, baseball and soccer fields. (845-298-4600)

Veterans' Memorial Park Ball Field

This 6 acre park, created at the request of World War II returning soldiers, includes a Little League baseball field, basketball court, playground, access to Wappinger Lake, a multipurpose building and a parking lot.

Temple Memorial Ball Field

This 6 acre park, dedicated to the memory of James J. Temple who served as Mayor of the Village from 1947-1959, includes a baseball field, play lot, basketball court and parking lot. This park is closest to the Lower Wappinger Creek which is an estuary of the Hudson River.

Zion Episcopal Church

Congregation established in 1883 by the Rev. George B. Andrews. Mr. and Mrs. Mesier, whose home is now the Mesier Homestead Museum, gave land for the new church that was completed in 1836.

First Presbyterian Church

First Presbyterian church of Wappingers Falls was established back in the 1850's and is celebrating over 150 years in ministry.

Bethel Baptist Church

Church building was established in 1830's and has seen major capital improvements since 1982. The current membership presently stands at 400 members.

St. Mary's Catholic Church

One of the oldest parishes in Dutchess County was founded in 1845, with cornerstone of current building laid in October 1877.

Scenic Hudson

This 27 acre natural habitat, owned by Scenic Hudson, overlooks the Market Street Industrial Park and is home to many species of birds, plants and animals. (845-473-4440)

New Hamburg Ball Field

This 3.4 acre local recreation area, believed to be the site at one time of a native American encampment, provides a ball field, basketball court, playground, tennis courts and a sheltered picnic area.

Canale Memorial Ball Field

This 3 acre park, created as a tribute to deceased trustee, Albert Canale, includes a Little League baseball field and playground equipment and is adjacent to the Village well fields and the Wappinger Rural Cemetery. (Parking must be done with care to preserve the quality of the water in the wells.)

United Methodist Church

Congregation formed in 1846. Present church built in 1868 on land purchased from Margaret Reese, and dedicated in 1870.

Wappinger Greenway Trail

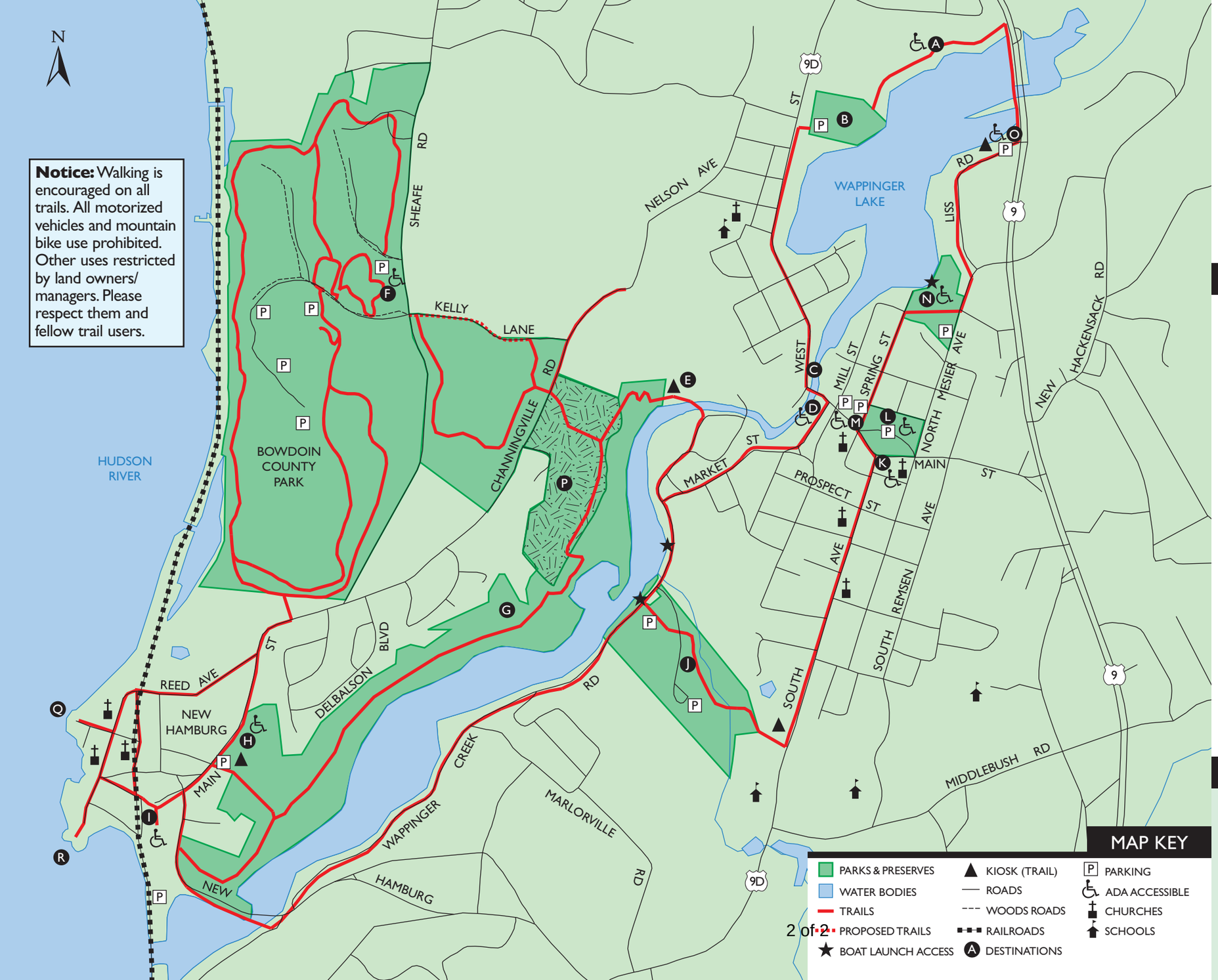
Trail System of Natural Beauty and Historic Sites

Printing of this brochure has been made possible by a grant from Explore NY.

Presented by Wappinger Greenway Trail Committee

Wappinger Greenway Trail

The Wappinger Greenway Trail is a 10.7 mile figure 8 loop of on and off-road trails encircling the lower Wappinger Creek and the Wappinger Lake. The trail links historic, cultural, natural and economic resources of local and regional significance. It is a key segment in the Hudson River Valley Greenway System.



DESTINATIONS OF INTEREST

- A Wappingers Falls Cemetery
- B Canale Memorial Ball Field
- C Galucci Park *(proposed)*
- D Falls View Park *(proposed)*
- E Market Street Industrial Park
- F Bowdoin County Park
- G Reese Audubon Sanctuary
- H New Hamburg Ball Field
- I Metro North Train Station
- J Reese Park
- K Wappingers Falls Village Hall
- L Mesier Homestead
- M Grinnell Library
- N Veterans' Memorial Park Ball Field
- O Fisherman's Park
- P Scenic Hudson Property
- Q New Hamburg Yacht Club
- R White's Marina

A special "Thank You" to our local supporters

Marshall's Deli
Wagon Wheel Pizza
Falls Diner
Eddie's Gourmet Pizza
Johnnie's Deli
Galapagos
Ground Hog Coffee Shop
Ciccio's Restaurant
Il Continori
The Quiet Man
Tuan Ying
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